

JANUARY 5, 1994

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This issue contains documents officially
filed not later than December 22, 1993

CITATION

Cite all material in the Washington State Register by its issue number and sequence within that issue, preceded by the acronym WSR. Example: the 37th item in the August 5, 1981, Register would be cited as WSR 81-15-037.

PUBLIC INSPECTION OF DOCUMENTS

A copy of each document filed with the code reviser's office, pursuant to chapter 34.05 RCW, is available for public inspection during normal office hours. The code reviser's office is located on the ground floor of the Legislative Building in Olympia. Office hours are from 8 a.m. to 5 p.m., Monday through Friday, except legal holidays. Telephone inquiries concerning material in the Register or the Washington Administrative Code (WAC) may be made by calling (206) 753-7470 (SCAN 234-7470).

REPUBLICATION OF OFFICIAL DOCUMENTS

All documents appearing in the Washington State Register are prepared and printed at public expense. There are no restrictions on the republication of official documents appearing in the Washington State Register. All news services are especially encouraged to give wide publicity to all documents printed in the Washington State Register.

CERTIFICATE

Pursuant to RCW 34.08.040, the publication of rules or other information in this issue of the Washington State Register is hereby certified to be a true and correct copy of such rules or other information, except that headings of public meeting notices have been edited for uniformity of style.

DENNIS W. COOPER
Code Reviser

STATE MAXIMUM INTEREST RATE

(Computed and filed by the State Treasurer under RCW 19.52.025)

The maximum allowable interest rate applicable for the month of January 1994 pursuant to RCW 19.52.020 is twelve point zero percent (12.00%).

NOTICE: FEDERAL LAW PERMITS FEDERALLY INSURED FINANCIAL INSTITUTIONS IN THE STATE TO CHARGE THE HIGHEST RATE OF INTEREST THAT MAY BE CHARGED BY ANY FINANCIAL INSTITUTION IN THE STATE. THE MAXIMUM ALLOWABLE RATE OF INTEREST SET FORTH ABOVE MAY NOT APPLY TO A PARTICULAR TRANSACTION.

WASHINGTON STATE REGISTER

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POSTMASTER: SEND ADDRESS CHANGES TO:

WASHINGTON STATE REGISTER
Code Reviser's Office
Legislative Building
Olympia, WA 98504

The Washington State Register is an official publication of the state of Washington. It contains proposed, emergency, and permanently adopted administrative rules, as well as other documents filed with the code reviser's office pursuant to RCW 34.08.020 and 42.30.075. Publication of any material in the Washington State Register is deemed to be official notice of such information.

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STYLE AND FORMAT OF THE WASHINGTON STATE REGISTER

1. ARRANGEMENT OF THE REGISTER

The Register is arranged in the following six sections:

- (a) **PROPOSED**-includes the full text of preproposal comments, original proposals, continuances, supplemental notices, and withdrawals.
- (b) **PERMANENT**-includes the full text of permanently adopted rules.
- (c) **EMERGENCY**-includes the full text of emergency rules and rescissions.
- (d) **MISCELLANEOUS**-includes notice of public meetings of state agencies, rules coordinator notifications, summaries of attorney general opinions, executive orders and emergency declarations of the governor, rules of the state Supreme Court, and other miscellaneous documents filed with the code reviser's office under RCW 34.08.020 and 42.30.075.
- (e) **TABLE**-includes a cumulative table of the WAC sections that are affected in the current year.
- (f) **INDEX**-includes a combined subject matter and agency index.

Documents are arranged within each section of the Register according to the order in which they are filed in the code reviser's office during the pertinent filing period. The three part number in the heading distinctively identifies each document, and the last part of the number indicates the filing sequence with a section's material.

2. PRINTING STYLE—INDICATION OF NEW OR DELETED MATERIAL

RCW 34.05.395 requires the use of certain marks to indicate amendments to existing agency rules. This style quickly and graphically portrays the current changes to existing rules as follows:

- (a) In amendatory sections—
 - (i) underlined material is new material;
 - (ii) deleted material is (~~lined out between double parentheses~~);
- (b) Complete new sections are prefaced by the heading NEW SECTION;
- (c) The repeal of an entire section is shown by listing its WAC section number and caption under the heading REPEALER.

3. MISCELLANEOUS MATERIAL NOT FILED UNDER THE ADMINISTRATIVE PROCEDURE ACT

Material contained in the Register other than rule-making actions taken under the APA (chapter 34.05 RCW) does not necessarily conform to the style and format conventions described above. The headings of these other types of material have been edited for uniformity of style; otherwise the items are shown as nearly as possible in the form submitted to the code reviser's office.

4. EFFECTIVE DATE OF RULES

- (a) Permanently adopted agency rules normally take effect thirty-one days after the rules and the agency order adopting them are filed with the code reviser's office. This effective date may be delayed or advanced and such an effective date will be noted in the promulgation statement preceding the text of the rule.
- (b) Emergency rules take effect upon filing with the code reviser's office unless a later date is provided by the agency. They remain effective for a maximum of one hundred twenty days from the date of filing.
- (c) Rules of the state Supreme Court generally contain an effective date clause in the order adopting the rules.

5. EDITORIAL CORRECTIONS

Material inserted by the code reviser's office for purposes of clarification or correction or to show the source or history of a document is enclosed in [brackets].

1993 - 1994

DATES FOR REGISTER CLOSING, DISTRIBUTION, AND FIRST AGENCY ACTION

| Issue No. | Closing Dates ¹ | | | Distribution Date | First Agency Hearing Date ³ |
|---------------------------|-----------------------------|-----------------------|--|-----------------------------|--|
| | Non-OTS & 30 p. or more | Non-OTS & 11 to 29 p. | OTS ² or 10 p. max. Non-OTS | | |
| <i>For Inclusion in--</i> | <i>File no later than--</i> | | | <i>Count 20 days from--</i> | <i>For hearing on or after</i> |
| 93-16 | Jul 7 | Jul 21 | Aug 4 | Aug 18 | Sep 7 |
| 93-17 | Jul 21 | Aug 4 | Aug 18 | Sep 1 | Sep 21 |
| 93-18 | Aug 4 | Aug 18 | Sep 1 | Sep 15 | Oct 5 |
| 93-19 | Aug 25 | Sep 8 | Sep 22 | Oct 6 | Oct 26 |
| 93-20 | Sep 8 | Sep 22 | Oct 6 | Oct 20 | Nov 9 |
| 93-21 | Sep 22 | Oct 6 | Oct 20 | Nov 3 | Nov 23 |
| 93-22 | Oct 6 | Oct 20 | Nov 3 | Nov 17 | Dec 7 |
| 93-23 | Oct 20 | Nov 3 | Nov 17 | Dec 1 | Dec 21 |
| 93-24 | Nov 3 | Nov 17 | Dec 1 | Dec 15 | Jan 4, 1994 |
| 94-01 | Nov 24 | Dec 8 | Dec 22, 1993 | Jan 5, 1994 | Jan 25 |
| 94-02 | Dec 8 | Dec 22, 1993 | Jan 5, 1994 | Jan 19 | Feb 8 |
| 94-03 | Dec 22, 1993 | Jan 5, 1994 | Jan 19 | Feb 2 | Feb 22 |
| 94-04 | Jan 5 | Jan 19 | Feb 2 | Feb 16 | Mar 8 |
| 94-05 | Jan 19 | Feb 2 | Feb 16 | Mar 2 | Mar 22 |
| 94-06 | Feb 2 | Feb 16 | Mar 2 | Mar 16 | Apr 5 |
| 94-07 | Feb 23 | Mar 9 | Mar 23 | Apr 6 | Apr 26 |
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| 94-23 | Oct 26 | Nov 9 | Nov 23 | Dec 7 | Dec 27 |
| 94-24 | Nov 9 | Nov 23 | Dec 7 | Dec 21 | Jan 10, 1995 |

¹All documents are due at the code reviser's office by 12:00 noon on or before the applicable closing date for inclusion in a particular issue of the Register; see WAC 1-21-040.

²A filing of any length will be accepted on the closing dates of this column if it has been prepared and completed by the order typing service (OTS) of the code reviser's office; see WAC 1-21-040. Agency-typed material is subject to a ten page limit for these dates; longer agency-typed material is subject to the earlier non-OTS dates.

³At least twenty days before the rule-making hearing, the agency shall cause notice of the hearing to be published in the Register; see RCW 34.05.320(1). These dates represent the twentieth day after the distribution date of the applicable Register.

Regulatory Fairness Act

The Regulatory Fairness Act, chapter 19.85 RCW, was adopted in 1982 to minimize the impacts of state regulations on small business. RCW 43.31.025 defines small business as “any business entity (including a sole proprietorship, corporation, partnership, or other legal entity) which is owned and operated independently from all other businesses, which has the purpose of making a profit, and which has fifty or fewer employees.” The act requires review and mitigation of proposed rules that have an economic impact on more than 20 percent of the businesses of all industries or more than 10 percent of the businesses in any one industry (as defined by any three-digit SIC code).

When the above criteria is met, agencies must prepare a small business economic impact statement (SBEIS) that identifies and analyzes compliance costs and determines whether proposed rules impact small businesses disproportionately when compared to large businesses. When a proportionately higher burden is imposed on small businesses, agencies must mitigate those impacts. All permanent rules adopted under the Administrative Procedure Act, chapter 34.05 RCW, are subject to review to determine if the requirements of the Regulatory Fairness Act apply. Impact statements are filed with the Office of the Code Reviser as part of the required notice of hearing.

AN SBEIS IS REQUIRED

When:

The proposed rule has any economic impact on more than 20 percent of all industries or more than 10 percent of any one industry; or

The proposed rule **IMPOSES** costs to business that are not minor and negligible.

AN SBEIS IS NOT REQUIRED

When:

The rule is proposed only to comply or conform with a Federal law or regulation;

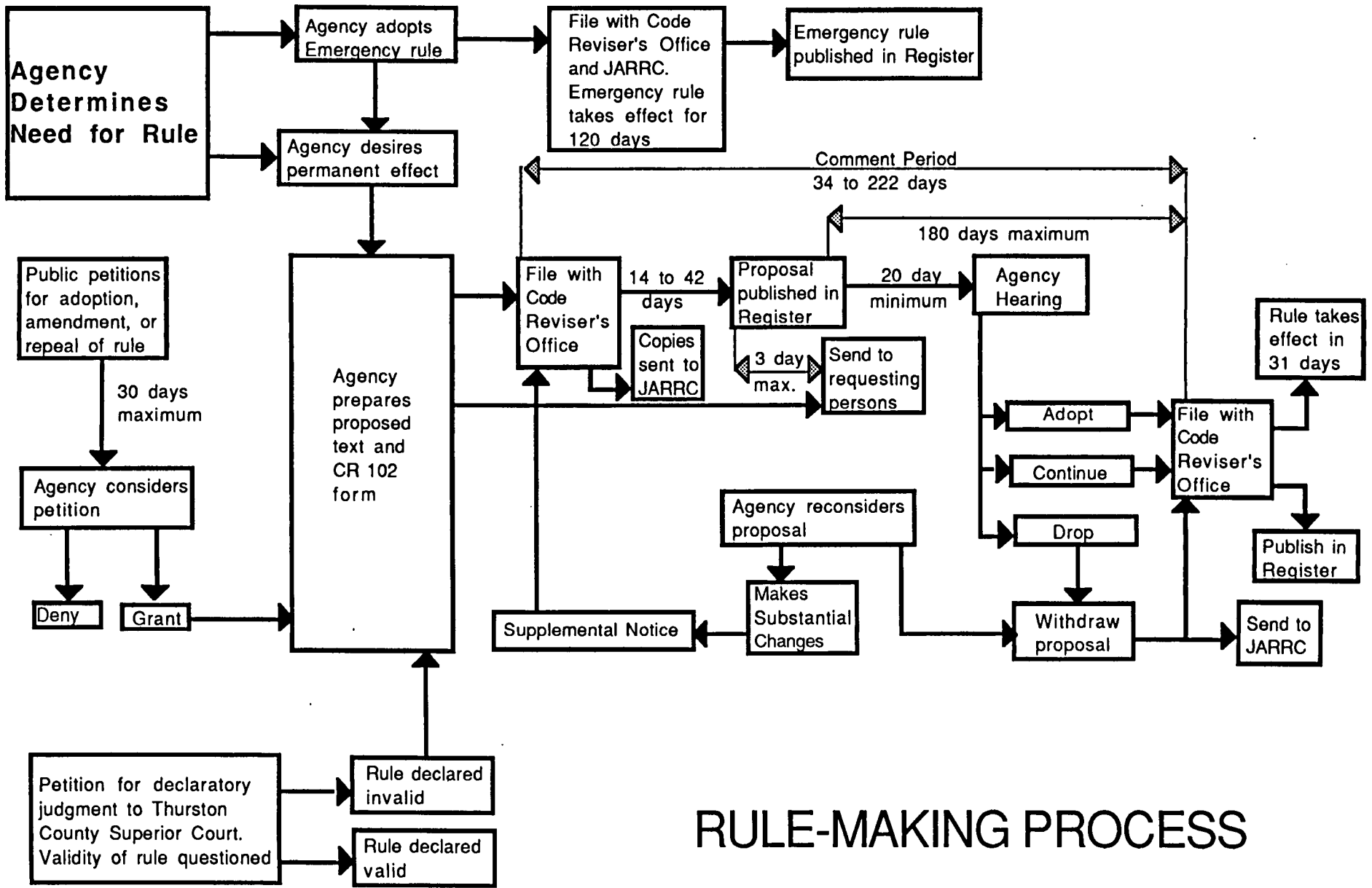
There is no economic impact on business;

The rule **REDUCES** costs to business;

There is only minor or negligible economic impact;

The rule is proposed as an emergency rule, although an SBEIS may be required when an emergency rule is proposed as a permanent rule; or

The rule is pure restatement of statute.



RULE-MAKING PROCESS

WSR 94-01-003
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
 (Public Assistance)

[Filed December 1, 1993, 2:39 p.m.]

Original Notice.

Title of Rule: WAC 388-538-110 Client grievances.

Purpose: Corrects an incorrect cross reference. Assures consistency in reference to when a client shall exhaust a managed care grievance procedure before requesting a fair hearing.

Statutory Authority for Adoption: RCW 74.08.090.

Statute Being Implemented: RCW 74.08.090.

Summary: Assures consistency in reference to when a client shall exhaust a managed care grievance procedure before requesting a fair hearing.

Reasons Supporting Proposal: Corrects an incorrect cross reference.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Bobbe Andersen, Medical Assistance Administration, 753-0529.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC Number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 1, 1993
 Dewey Brock, Chief
 Office of Vendor Services
 Administrative Services Division

AMENDATORY SECTION (Amending Order 3621, filed 8/11/93, effective 9/11/93)

WAC 388-538-110 Client grievances. (1) A client aggrieved by a decision of a plan, PCCM, or the department shall have the right to a fair hearing as required under WAC 388-81-040.

(2) A client enrolled in a plan shall:

(a) ~~((Shall))~~ Exhaust a plan's grievance procedure before requesting a fair hearing, except in subsection ~~(((2)(e)(iii)))~~ (3)(b) and (c) of this section; and

(b) ~~((Shall))~~ Receive a written decision from the plan stating the basis for the grievance decision ~~((e))~~;

(3) A client may request a fair hearing ~~((when a))~~:

~~(((i)))~~ (a) When a grievance decision is adverse;
~~(((ii)))~~ (b) If a plan does not respond in writing within thirty days from the date the client requests the grievance; or
~~(((3))~~ The client may request a fair hearing at the same time a grievance is filed)) (c) When the plan denies a client urgently needed medical care, and the client concurrently requests a grievance in writing.

(4) The plan or PCCM shall advise ~~((the))~~ a client of ~~((his or her))~~ the client's right to request a fair hearing at the time the plan or PCCM notifies the client of the grievance decision.

WSR 94-01-010
PROPOSED RULES
SECRETARY OF STATE
 [Filed December 2, 1993, 4:18 p.m.]

Original Notice.

Title of Rule: Election training and certification procedures.

Statutory Authority for Adoption: RCW 29.60.020.

Statute Being Implemented: Chapter 29.60 RCW.

Summary: These rules are intended to provide the framework for an election training and certification program, including the establishment of a points system for completed activities.

Name of Agency Personnel Responsible for Drafting: John Pearson and Dean Logan, Olympia, 753-2336; Implementation: Gary McIntosh, Olympia, 753-2336; and Enforcement: Ralph Munro, Olympia, 753-7121.

Name of Proponent: Secretary of State, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: These rules will help in establishing a training curriculum for state and local election officials and for others involved in the administration of elections in Washington. Certain minimum requirements are established for the attainment of certification and for the maintenance of that certification. The anticipated effects of these rules is the development of a professionalized core of election administrators and greater standardization and uniformity in the conduct of elections throughout the state.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Office of the Secretary of State, P.O. Box 40232, Olympia, 98504, on January 25, 1994, at 10:00 a.m.

Submit Written Comments to: John Pearson, Office of the Secretary of State, P.O. Box 40232, Olympia, by January 18.

Date of Intended Adoption: January 26, 1993 [1994].
 December 2, 1993

Don Whiting
 Assistant Secretary of State

**Chapter 434-60 WAC
CERTIFICATION OF ELECTION
ADMINISTRATORS**

NEW SECTION

WAC 434-60-210 Intent. It is the intent of this chapter to provide procedures to be followed for the certification and training of election administrators, deputy election administrators, and the training of county canvassing board members, and election observers as required by chapter 29.60 RCW.

NEW SECTION

WAC 434-60-215 Definitions. As used in this chapter:

(1) "Election administrator" means the person or persons appointed by the county auditor of each county to conduct primaries and elections, general or special, as required by RCW 36.22.220 and those persons employed by the secretary of state elections division;

(2) "County canvassing board members" means the county auditor, the county prosecuting attorney, and the chair of the county legislative authority or their designated representatives, for each county;

(3) "Election observers" means those persons designated by the county political party central committee chair person to observe the counting of ballots and related elections procedures;

(4) "Deputy election administrator" means any person employed as a regular employee of an elections division other than those designated as election administrators;

(5) "Election administration and certification board" means that board created pursuant to the provisions of RCW 29.60.010;

(6) "Creditable training hours" means each creditable training hour contemplated in WAC 434-60-230 shall feature a minimum of fifty minutes of instructional activity programmed for the purpose of mastering information beneficial to the performance of the duties of administering elections.

NEW SECTION

WAC 434-60-220 Certification of election administrators and deputy election administrators. Election administrators and deputy election administrators may not become certified under this section until they have been involved in the administration of an even-year general election and an odd-year general election. For initial certification, an accumulation of fifteen credits is required which must include as a minimum:

(1) Mandatory orientation (two credits);

(2) Two years' service in election administration (up to five credits);

(3) Taking and passing an open book written test on Title 29 RCW, Title 434 WAC, and applicable state and federal election laws (two credits);

(4) Participation in conferences and workshops sponsored by: (Five credits minimum including two from (a) and/or (b) of this subsection)

(a) Washington Association of County Auditors;

(b) Secretary of state;

(c) The elections center;

(d) The International Association of Clerks, Recorders, Election Officials and Treasurers (IACREOT);

(e) The Federal Election Commission;

(f) Other national associations related to elections or government administration, approved by the Election Administration and Certification Board; or

(g) Other conferences or courses approved by the Election Administration and Certification Board.

(5) Any combination of the following:

(a) Formal education (up to five credits);

(b) Participation in other education activities (up to five credits).

NEW SECTION

WAC 434-60-230 Certification credit system. The credit system gives measured values to a number of different activities which contribute to developing skills and knowledge appropriate to the duties of an election administrator.

NEW SECTION

WAC 434-60-240 Mandatory orientation. (1) All election administrators and deputy election administrators shall, within twelve months of undertaking those responsibilities or by July 1, 1994, whichever is later, attend a mandatory orientation workshop sponsored by the secretary of state to be eligible for certification. Mandatory orientation workshops will be offered for new election administrators and deputy election administrators annually.

(2) Mandatory orientation will consist of twelve hours of training in election-related subjects. The twelve hours will be worth two credits.

NEW SECTION

WAC 434-60-250 Experience as an election administrator, or as a deputy election administrator. For initial certification a minimum of two years service in elections administration and working in an election related capacity during an even-year general election and an odd-year general election is required. Up to five of the total initial certification credits can be earned for experience.

(1) One credit for each year served as an election supervisor or director.

(2) One credit for every two years of experience in any other election administration position.

NEW SECTION

WAC 434-60-260 Open book written test. The secretary of state elections division will prepare an open book written test on Title 29 RCW, Title 434 WAC and applicable state and federal laws to be given annually to election administrators at the completion of the mandatory orientation session. Taking and passing the test will be worth two credits for initial certification.

NEW SECTION

WAC 434-60-270 Participation in conferences and workshops. A minimum of five credits must be earned for conference participation for initial certification of which two shall be from conferences or workshops sponsored by the

Washington Association of County Auditors or the secretary of state.

(1) One credit for each eight hours of attendance at training events;

(2) One credit each for serving as a panelist, speaker, or chairperson at training events in which a minimum of two hours of preparation time is documented.

NEW SECTION

WAC 434-60-280 Formal education. No more than five of the total initial certification credits can be earned for formal education.

(1) One credit for a high school diploma or equivalent;

(2) One credit, up to a maximum of two, for each successfully completed year of postsecondary higher education in a college or a business school;

(3) One credit for each academic or professional degree earned;

(4) One credit for each professional certification related to the duties of an election administrator.

NEW SECTION

WAC 434-60-290 Participation in other education activities. No more than five of the initial certification credits can be earned for other education activities.

One credit for each eight hours of other education activities which are approved by the election administration and certification board.

NEW SECTION

WAC 434-60-300 Maintaining certification. After attaining initial certification the election administrator is responsible for maintenance of his or her certification on an ongoing basis. Maintenance of certification shall consist of:

(1) Election administration: The continued conduct of elections as an elections administrator or deputy elections administrator;

(2) Continuing education: It is the position of the election administration and certification board that attendance at the annual election administrator's conference is of critical importance in maintaining certification as an election administrator. In addition to the annual election conference, continuing education shall consist of training programs which emphasize the duties and functions of administering elections. Participation in a minimum of eighteen hours of continuing education shall be required each year to maintain certification. These training programs may include the following:

- (a) Public administration;
- (b) Public and media relations;
- (c) Election and voter registration law;
- (d) Personnel management;
- (e) Organizational management;
- (f) Information systems management;
- (g) Voting systems and equipment;
- (h) Budget or fiscal management;
- (i) Stress management;
- (j) Visiting other county election departments for training and/or orientation purposes;

(k) Attaining of additional professional or academic degrees;

(l) Any election oriented training offered by the organizations listed in WAC 434-60-220 (4)(a) through (g).

NEW SECTION

WAC 434-60-310 Certification of minimum requirements. The secretary of state shall distribute applications for certification annually to the county auditors, or equivalent. The county auditors shall, before December 1 of each year, certify to the election administration and certification board the completion of the requirements for initial certification for members of his or her staff.

NEW SECTION

WAC 434-60-320 Training program for county canvassing board members. The secretary of state elections division shall prepare a training program for county canvassing board members or their designated representatives. The training program shall be made available to county canvassing board members annually at their respective conferences sponsored by the Washington Association of County Officials. Upon completion of the training program, county canvassing board members shall receive a certificate of completion. The training program for county canvassing board members or their designated representatives may include the following:

- (1) Election law (Title 29 RCW);
- (2) Voting systems;
- (3) Canvassing board policies and procedures.

NEW SECTION

WAC 434-60-330 Training program for election observers. The secretary of state elections division shall prepare a training program for election observers. The training shall be made available regionally on an annual basis. Upon completion of the training, election observers shall receive a certificate of completion. The training for election observers may include the following:

- (1) Election law (Title 29 RCW, Title 434 WAC);
- (2) Voting systems;
- (3) Logic and accuracy test procedures.

NEW SECTION

WAC 434-60-340 Training video tapes available. An election administrator, canvassing board member, or election observer who is unable to travel to training programs conducted under this section may request audio or video recordings of the training programs and shall be given full credit in accordance with this section upon certification that he or she has completed the programs by the county auditor, or equivalent.

NEW SECTION

WAC 434-60-350 Approval of training programs. All training and orientation programs referenced in these rules shall be subject to review and approval of the election administration and certification board.

WSR 94-01-011
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
 (Public Assistance)
 [Filed December 2, 1993, 4:21 p.m.]

WSR 94-01-021
PROPOSED RULES
DEPARTMENT OF TRANSPORTATION
 [Filed December 3, 1993, 3:15 p.m.]

Original Notice.

Title of Rule: Chapter 388-53 WAC, Individual and family grant programs—Disaster relief.

Purpose: Repeal chapter 388-53 WAC (IFG) dealing with the relationship between the Department of Social and Health Services and the individual and family grant program. The administration of this program under the Stafford disaster assistance program was moved to the Office of Emergency Management, Department of Community Development.

Statutory Authority for Adoption: Chapter 38.52 RCW.
Statute Being Implemented: Chapter 38.52 RCW.

Summary: Repeals chapter 388-53 WAC which is no longer valid.

Reasons Supporting Proposal: The administration of this program under the Stafford disaster assistance program was moved to the Office of Emergency Management, Department of Community Development.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Kay Hanvey, Division of Income Assistance, 438-8316.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 2, 1993
 Dewey Brock, Chief
 Office of Vendor Services
 Administrative Services Division

REPEALER

The following chapter of the Washington Administrative Code is repealed:

Chapter 388-53 WAC, Individual and family grant program—Disaster relief.

Original Notice.

Title of Rule: Chapter 468-16 WAC, Prequalification of contractors.

Purpose: To make minor changes to chapter 468-16 WAC to improve its effectiveness since its implementation.

Statutory Authority for Adoption: RCW 47.01.101, 47.28.030, and 47.28.070.

Statute Being Implemented: RCW 47.28.070.

Summary: The changes add clarity to the procedures for determining the qualifications of contractors for performing highway construction.

Reasons Supporting Proposal: To implement statutory provisions for administering the qualification process and to comply with the Administrative Procedure Act, chapter 34.05 RCW.

Name of Agency Personnel Responsible for Drafting: James Wilson, Transportation Building, 705-7016; **Implementation and Enforcement:** James R. Buss, Transportation Building, 705-7801.

Name of Proponent: Department of Transportation, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The proposed changes to chapter 468-16 WAC adds clarity to the procedures for determining the qualifications of contractors for performing highway construction. Chapter 468-16 WAC implements RCW 47.28.070 relating to the prequalification of highway system contractors. The purpose of the statute and the implementing rule is to assure that each highway system construction or improvement contract will be awarded to a competent and responsible contractor. The rule establishes a process for an objective method for determining a contractor's qualifications for engagement in department work and for the retention of such qualifications. It further provides for the enhancement of the contractor's prequalification and bidding capacity through higher standards of performance. The rule increases the opportunity for better cooperation between the department and the construction industry. The rule also provides for the award, denial, suspension, or revocation of qualification and for a hearing procedure for such actions.

Proposal Changes the Following Existing Rules: The rule codifies existing and new procedures under which contractor prequalification will operate. It also provides for more clarity and additional instructions for determining a contractor's qualifications for being engaged in state highway work and for assuring that such qualifications are maintained.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

A small business economic impact statement is not required. The cost of prequalification under the proposed rules would impose no greater cost than they would incur in compliance with our current prequalification process.

Hearing Location: Boardroom 1D2, Transportation Building, Olympia, Washington 98504, on January 31, 1994, at 10:00 a.m.

Submit Written Comments to: James Wilson, Manager, Precontract, Transportation Building, Olympia, Washington 98504-7360, Facsimile (206) 705-6808, by January 24, 1994.

Date of Intended Adoption: January 31, 1994.

December 2, 1993

S. A. Moon

Deputy Secretary

AMENDATORY SECTION (Amending Order 134, filed 1/12/93, effective 2/12/93)

WAC 468-16-090 Standard questionnaire. The standard questionnaire and financial statement shall be prepared and transmitted to the secretary, Attn: Precontract administration office. The questionnaire shall include the following information:

(1) The contractor's name, address, phone number, facsimile number, and type of organization (corporation, partnership, sole proprietorship, etc.).

(2) A list of the classes of work for which the contractor seeks qualification.

(3) A statement of the ownership of the firm and, if a corporation, the name of the parent corporation, if any, and the names of any affiliated or subsidiary companies.

(4) A certificate of authority from the office of the secretary of state to do business in Washington state if the applicant is an out-of-state corporation.

(5) A list of officials within the applicant firm who are also affiliated with other firms involved in construction work as a contractor, subcontractor, supplier, or consultant; including the name of the firm and their relationship with the affiliate firm.

(6) A complete list of the highest valued contracts or subcontracts performed in whole or in part within the immediate three years preceding application. The contract amount, contract number, date of completion, class of work; and the name, mailing address, and phone number of the project owner or agency representative must be provided for those projects listed. Only that work completed by the contractor's own organization under its own supervision will be considered for prequalification purposes. A minimum of five completed projects must be listed.

(7) Personnel requirements.

(a) A listing of the principal officers and key employees indicating their years of experience in the classes of work for which prequalification is sought. For qualification in a class of work based on newly acquired personnel rather than the firm's past contract experience, the newly acquired personnel must be available for future employment for the full year for which qualification is sought unless replacement personnel have been approved. The loss of such personnel during the year of qualification, will result in revocation of qualification for the class of work granted pursuant to their acquisition. The department may require resumes of such personnel as deemed proper for making its determination. The firm's performance on department contracts must be currently rated standard or better to be used for qualification purposes.

(b) A firm must have, within its own organization, qualified permanent, full time personnel having the skills and

experience including, if applicable, technical or specialty licenses, for each work class for which prequalification is sought. Those firms seeking qualification for electrical work (classes 9 and 16) must provide photocopies of current Washington state electrical licenses. The skills and experience must be substantiated by education and practical experience on completed construction projects.

(c) "Its own organization" shall be construed to include only the contractor's permanent, full time employed office and site supervisory personnel as shown on the most recently submitted or amended prequalification questionnaire. Workers of the organization shall be employed and paid directly by the prime contractor. The term "its own organization," shall also include the equipment owned or rented by the contractor with or without equipment operators. Such term does not include employees or equipment of another contractor, subcontractor, assignee, or agent of the applicant contractor although they are placed on the applicant contractor's payroll.

(8) A list of all major items of equipment used to perform those classes of work for which prequalification is sought. The description, quantity, condition, present location, and age of such equipment must be shown. The schedule must show whether the equipment is owned, leased, or rented.

(9) A financial statement.

(a) For a firm showing a net worth in excess of one hundred thousand dollars, the applicant must provide, with the questionnaire, a copy of its financial statement as audited or reviewed for its last fiscal year, prepared in accordance with the standards of the American Institute of Certified Public Accountants. The statement must be prepared by an independent certified public accountant registered and licensed under the laws of any state. Balance sheets, income statements, a statement of retained earnings, supporting schedules and notes, and the opinion of the independent auditor must accompany the financial statement.

(b) Financial statements must be for the current twelve month period and must reflect a ratio of total current assets to total current liabilities of 1.0 or greater.

(10) A wholly owned subsidiary firm may file the latest consolidated financial statement of its parent corporation in lieu of a financial statement prepared solely for the subsidiary. When a consolidated financial statement is submitted, the requirements of subsection (9) of this section and WAC 468-16-140 (2)(b) must be fulfilled.

(11) The applicant shall list the following occurrences within the previous three years:

(a) Instances of having been denied qualification, or a license, or instances of having been deemed other than responsible by any public agency.

(b) Convictions for felonies listed in WAC 468-16-050.

(c) Failure to complete a contract.

(12) The standard questionnaire shall be processed as follows:

(a) The application for qualification shall be prepared on a standard questionnaire provided by the department and sworn to before a notary public or other person authorized to take oaths.

(b) A standard questionnaire will be reviewed and a written notice provided to the applicant, within thirty days of its receipt, stating whether the applicant has been

prequalified or qualification has been denied. The applicant will be advised of lack of receipt of data corroborating project completion and errors or omissions in the questionnaire and a request made for additional information necessary to complete evaluation of the applicant. If the information is not provided within twenty calendar days of the request, the application will be processed, if possible, with the information available or it will be returned to the applicant without further action.

(c) When qualification is denied, the applicant shall be advised in writing by certified mail (return receipt requested) of the reasons for the denial and of the right to a hearing upon written request.

(d) Applicants not satisfied with the qualification granted may request in writing, a review of their questionnaire and qualification ratings. The request must be filed within thirty calendar days of the date of receipt of the notice of qualification and must specifically state the basis for the request.

(e) The secretary or designee shall advise the applicant of his or her decision on the reconsideration within thirty calendar days of receipt of the request.

(13) Criteria for initial qualification, renewal, and submission of supplemental data:

(a) Qualification may be established in any calendar quarter and must be renewed annually. Information submitted in the questionnaire will be used as a basis for the contractor's initial prequalification, work class ratings, and maximum capacity ratings. Qualification will be valid for the remainder of the applicant's fiscal year plus one calendar quarter as established by the date of the year-end financial statement. Prequalification will be renewed annually thereafter or at other times as designated by the department.

(b) A standard questionnaire from a contractor, not previously qualified under this chapter, must have been received by the department no less than fifteen calendar days prior to the scheduled bid opening to receive consideration for issuance of a bidding proposal for that bid opening.

(c) The department may, during the period for which the contractor has been prequalified, require the submission of a new standard questionnaire. If the questionnaire is not provided within thirty calendar days of the date of request, the notice of qualification held by the contractor will be declared invalid and the contractor will not be permitted to bid with the department until the contractor is again prequalified.

(d) A supplemental questionnaire shall be submitted when a significant change in the structure of the firm occurs, e.g., incorporation, officers, ownership, etc., or when required by the department.

(e) If prequalification has lapsed for more than six months, the applicant will again be required to submit a fully executed standard questionnaire and financial statement.

(f) The applicant shall authorize the department to request and receive such additional information from any sources deemed necessary for the completion of the qualification process.

(g) Inquiries will be made and investigations, if necessary, will be conducted to verify the applicant's statements and to determine eligibility for qualification.

(h) The department may require a personal interview with a principal or principals of the contracting firm when considering its qualification.

(i) Qualified contractors in good standing shall be notified of impending expiration of their qualification and will be provided the necessary questionnaire forms for renewal at least forty-five days before the expiration date.

(14) Financial information supplied by, or on behalf of, a contractor for the purpose of qualification shall not be made available for public inspection and copying pursuant to RCW 42.17.310 (1)(m). The foregoing restriction shall not prohibit the department's providing such information in evidence or in pretrial discovery in any court action or administrative hearing involving the department and a contractor. Insofar as permitted by public disclosure statutes, qualification ratings shall be treated as confidential information.

(15) Qualified contractors will be provided with notices which list projects currently being advertised.

AMENDATORY SECTION (Amending Order 128, filed 1/28/91, effective 2/28/91)

WAC 468-16-110 Joint ventures. (1) Joint ventures are prequalified under two categories as follows:

(a) Individual project joint venture - An association of two or more firms formed for the specific purpose of submitting a bid on a specific project.

(i) All firms must be individually prequalified.

(ii) The firms must file an "individual project statement of joint venture" and a joint venture agreement in the formats prescribed.

(iii) Individual project joint ventures must maintain a standard or higher performance. Should the individual project joint venture receive a less than standard rating, the provisions of WAC 468-16-100 shall apply.

(b) Continuing joint venture - An association of two or more firms formed for the purpose of submitting bids for projects to be advertised over a period of time.

(i) All firms must be individually prequalified.

(ii) The firms must file a "statement of continuing joint venture."

(iii) Continuing joint ventures must maintain a standard or higher performance rating in order to remain qualified.

(iv) A rating of less than standard will cause the joint venture to be placed in conditional qualification status.

(2) A standard questionnaire and financial statement for each member, if not on file, and a standard questionnaire and financial statement designating the assets and liabilities of the venture shall be submitted for the joint venture with a copy of the joint venture agreement. The agreement shall specify the name under which the joint venture will operate and the names of those individuals authorized to sign proposals, contracts, and other documents on behalf of the joint venture. It shall contain provisions which will unequivocally bind the parties, jointly and severally, to any contract entered into thereunder.

AMENDATORY SECTION (Amending Order 134, filed 1/12/93, effective 2/12/93)

WAC 468-16-120 Work class ratings. (1) Qualification shall be granted a contractor in one or more classes of work in which the firm has shown the capability to satisfactorily perform with its own forces under its own immediate supervision.

(2) The department's project estimate shall be the only estimate used to determine the value of the various classes of work within a project for determining a contractor's eligibility to bid that specific project. The contractor will be required to perform a specified percentage of the total work as provided for in the current issue of the *Standard Specifications*.

(3) Contractors will be given work class ratings on the basis of their financial status, performance record, previous experience, organization, and condition and suitability of equipment. Higher performance ratings result in higher work class ratings.

(4) When it has been determined that adequate competition cannot be afforded as a result of either the lack of prequalified bidders, or the lack of applicants for qualification with sufficient experience in the work class required, the department may take in consideration the firm's experience in performing other related work in order to create competition providing that:

(a) The work class does not require a specialty license.

(b) The firm seeking the work class has maintained standard or better performance record in another work class.

(c) The firm seeking such work meets all other requirements prescribed under this chapter including the availability of the necessary equipment for the project being let.

(5) Data provided by project owners, other than the department, to inquiries made concerning new applicants seeking qualification, shall be used to determine initial work class ratings and maximum capacity ratings. Initial work class ratings for new applicants and those of firms which have not renewed their qualification within two years, will be based on performance data provided by agencies or organizations having previously employed the applicant. Such other data as the department may have on file may also be used. Work submitted by the new contractor and verified by the department will be given an initial work class rating equal to 2.5 times the highest value of the work the contractor has completed within that work class during the past three years. If a specific portion of a work class is performed by the contractor, the prequalification for that class will be limited to that portion of the work.

~~((5))~~ (6) Work reported as less than satisfactory will not be accepted for qualification purposes, but may be included with performance reports in determining the status of the contractor's prequalification.

~~((6))~~ (7) Work class ratings previously granted will not be reduced providing the contractor has maintained a standard performance record on department work and the contractor continues to submit the required questionnaire annually. Should a significant reduction of resources occur, the contractor's work class ratings may be modified or reduced to an amount within the contractor's current capacity.

~~((7))~~ (8) A contractor's work class ratings will be reviewed annually effective on the date the renewal questionnaire has been received. Work class ratings for those contractors renewing prequalification will be reviewed for increases, decreases, and additional work classes not previously granted. In determining the annual status of the contractor's work class ratings, prime work completed for the department and the performance rating given for that work shall be weighted more heavily than work completed for other agencies.

~~((8))~~ (9) Work class ratings shall be computed by multiplying the highest value of the work class completed satisfactorily during the preceding prequalification year by a factor of 2.5 provided that the currently established work class rating is not higher. In that event, the currently established work class shall become the work class rating for the ensuing qualification year. Work class ratings will not change if the contractor has not performed in that work class during the prequalification year.

~~((9))~~ (10) Work class ratings for inactive contractors renewing prequalification will be computed annually in the same manner as for new applicants for a period not to exceed three years. Work class ratings granted within three successive renewal periods shall remain the same as for an inactive contractor if the contractor continues to submit the required questionnaire annually and the questionnaire does not reveal a significant reduction in organizational resources. When a significant reduction of resources occurs, the inactive contractor's work class ratings may be modified to an amount within the contractor's current capacity.

AMENDATORY SECTION (Amending Order 134, filed 1/12/93, effective 2/12/93)

WAC 468-16-130 Prequalification work classes. A contractor seeking prequalification under this chapter will be classified for one or more of the following listed work classes in accordance with the adequacy of the firm's equipment and plant facilities and its proven ability to perform the work class sought.

- | | |
|---------|---|
| Class 1 | Clearing, grubbing, grading & draining Removal of tree stumps, shrubs, modification of the ground surface by cuts and fills, excavating of earth materials, and the placement of drainage structures. |
| Class 2 | Production and placing of crushed materials Production and placing crushed surfacing materials and gravel. |
| Class 3 | Bituminous surface treatment Placing of crushed materials with asphaltic application. |
| Class 4 | Asphalt concrete paving Production and placing Asphalt Concrete Plant Mix Pavement. |
| Class 5 | Cement concrete paving Production and placing cement concrete pavement. |
| Class 6 | Bridges and structures Construction of bridges, walls and other major structures of timber, steel, and concrete. |

- Class 7 **Buildings**
Construction of buildings and related structures within the right of way and major reconstruction and remodeling of such buildings.
- Class 8 **Painting**
Painting bridges, buildings, and related structures.
- Class 9 **Traffic signals**
Installation of traffic signal and control systems.
- Class 10 **Structural tile cleaning**
Cleaning tunnels, large buildings and structures and storage tanks.
- Class 11 **Guardrail**
Construction of a rail secured to uprights and erected as a barrier between, or beside lanes of a highway.
- Class 12 **Pavement marking (excluding painting)**
Thermoplastic markings, stripes, bars, symbols, etc. Traffic buttons, lane markers, guide posts.
- Class 13 **Demolition**
Removal of timber, steel, and concrete structures and obstructions.
- Class 14 **Drilling and blasting**
Controlled blasting of rock and obstructions by means of explosives.
- Class 15 **Sewers and water mains**
Draining, pipe jacking, water systems, pumping stations, storm drainage systems, sewer rehabilitation, sewage pumping stations, pressurized lines.
- Class 16 **Illumination & general electrical**
Highway illumination, navigational lighting, wiring, junction boxes, conduit installation.
- Class 17 **Cement concrete curb and gutter**
Sidewalks, spillways, driveways, monument cases and covers, right of way markers, traffic curbs, and gutters.
- Class 18 **Asphalt concrete curb and gutter**
Sidewalks, spillways, driveways, monument cases and covers, right of way markers, traffic curbs, and gutters.
- Class 19 **Riprap and rock walls**
Mortar, rubble, and masonry walls; rock retaining walls, and placing of large broken stone on earth surfaces for protection against the action of water.
- Class 20 **Concrete structures except bridges**
Cast-in-place median barrier, prestressing, post-tensioned structures, footings, prefabricated panels and walls, retaining walls, and ramps, foundations, rock bolts, and concrete slope protection.
- Class 21 **Tunnels and shaft excavation**
Tunnel excavation, rock tunneling, and soft bore tunneling.
- Class 22 **Piledriving**
Driving concrete, steel, and timber piles.
- Class 23 **Concrete surface treatment**
Exposed aggregate, fractured-fin and rope textured finishes; waterproofing concrete surfaces (clear or pigmented sealer).
- Class 24 **Fencing**
Wire and metal fencing, glare screens.
- Class 25 **Bridge deck repair**
Bridge expansion joint repair and modification, bridge deck resurfacing and repair.
- Class 26 **Deck seal**
Waterproof membrane.
- Class 27 **Signing**
Sign structures and signs.
- Class 28 **Electronics**
Surveillance and control systems design and installation, electronics training and maintenance.
- Class 29 **Slurry diaphragm and cut-off walls**
Slurry excavation and the construction of structural concrete walls and slurry cut-off walls.
- Class 30 **Surveying**
Highway construction surveying.
- Class 31 **Water distribution and irrigation**
Irrigation systems and heavy duty water distribution.
- Class 32 **Landscaping**
Landscape irrigation, planting, sodding, seeding, fertilizing, mulching, herbicide application, insecticide application, weed control, mowing, liming, soil binder, topsoil.
- Class 33 **Engineering**
Work other than surveying, including engineering calculations, drawing and other related work for highway construction.
- Class 34 **Erosion control**
Seeding, fertilizing, mulching, slope protection, topsoil application, hydro-seeding, soil stabilization, soil sampling.
- Class 35 **Precast median barrier**
A concrete barrier that is cast and cured in other than its final position used to divide the median of two adjacent highways or temporarily placed to divert traffic in construction zones.
- Class 36 **Permanent tie back anchor**
Installation of permanent rock and soil anchors, soldier piles and timber lagging. Soldier pile tie back anchor wall construction.
- Class 37 **Impact attenuators**
Installation of approved protective systems filled with sand, water, foam, or other substances which prevent errant vehicles from impacting roadside hazards.
- Class 38 **Paint striping**
Painted bars, letters, symbols, and striping.

- Class 39 **Wire mesh slope protection**
The installation of a zinc coated steel wire mesh anchored by wire rope and reinforced concrete posts or anchor rods. Used for dampening the effects of rolling rocks onto the highway.
- Class 40 **Gabion and gabion construction**
Construction of walls made with containers of galvanized steel hexagonal wire mesh and filled with stone.
- Class 41 **Not used**
- Class 42 **Electronics—fiber optic based communications systems**
Design and installation of fiber optic based communication systems.
- Class 43 **Mechanical**
Plumbing work and the installation of heating or air conditioning units.
- Class 44 **Not used**
- Class 45 **Not used**
- Class 46 **Concrete restoration**
Pavement subseal, cement concrete repair, epoxy coatings, epoxy repair, masonry repair, masonry cleaning, special coatings, epoxy injection, gunite, shotcrete grouting, pavement jacking, gunite repair, and pressure grouting.
- Class 47 **Concrete sawing, coring, and grooving**
Concrete sawing, concrete planing and grooving, bump grinding, joint repair, concrete coring.
- Class 48 **Dredging**
Excavating underwater materials.
- Class 49 **Marine work**
Underwater surveillance, testing, repair, subaquatic construction, anchors, and cable replacement, floating concrete pontoon repairs and modifications, disassembly and assembly of floating concrete pontoons.
- Class 50 **Not used**
- Class 51 **Well drilling**
Drilling wells, installing pipe casing and pumping stations.
- Class 52 **Sewage disposal**
Hauling and disposing liquid and solid wastes.
- Class 53 **Traffic control**
Providing piloted traffic control, traffic control labor, and maintenance and protection of traffic.
- Class 54 **Railroad construction**
Construction of railroad subgrade, placing of ballast, ties, and track and other items related to railroad work.
- Class 55 **Steel fabrication**
Welding of steel members, heat straightening steel.
- Class 56 **Street cleaning**
Street sweeping with self-propelled sweeping equipment.

- Class 57 **Materials transporting**
Truck hauling.
- Class 58 **Sand blasting and steam cleaning**
Steam cleaning, sand blasting, shot blasting, and water blasting.

AMENDATORY SECTION (Amending Order 134, filed 1/12/93, effective 2/12/93)

WAC 468-16-150 Prime contractor performance reports. (1) Performance reports described in this section, substantially in the format as that appearing at WAC 468-16-210, will be completed for prime contractors only for projects valued at one hundred thousand dollars or more. Each prime contractor's performance report will be classified as to the primary work class being rated. This shall be stated in Section I of the report by listing the major classes of work performed by the contractor e.g., clearing, grading, surfacing, etc.

(2) Performance will be rated under the following headings: Administration, management, and supervision; quality of work; progress of work; and equipment.

(3) The following adjectival ratings are established for performance reports:

- (a) Superior.
- (b) Above standard.
- (c) Standard.
- (d) Below standard.
- (e) Inadequate.

(4) The report shall contain a numerical section which quantifies the adjectival ratings into a total performance rating which is multiplied by .01 to obtain a performance score falling within one of the following ranges:

| | |
|----------------|-------------|
| Superior | 1.31 - 1.50 |
| Above Standard | 1.01 - 1.30 |
| Standard | 1.00 |
| Below Standard | .70 - .99 |
| Inadequate | .50 - .69 |

(5) The performance score (PS) is computed by multiplying the performance rating (PR) obtained from the prime contractor's performance report by a factor (F) of .01 e.g., 129 (PR) x .01 (F) = 1.29 (PS).

(6) The annual performance score is the average of the scores, by work class, obtained from all performance reports submitted for department projects completed during the one-year period next preceding the date of expiration of the contractor's qualification.

(7) The performance report shall be used in fixing a contractor's requalification status.

(8) The report shall contain a narrative section which verbally provides the details substantiating the numerical rating. The narrative section shall be based upon documentation prepared during the life of the project, such as the project engineer's diary, the inspector's daily report and other pertinent documents. This documentation shall constitute the major portion of the administrative record to be used for any hearings or litigation that may arise from the rating process.

(9) The performance report will be prepared and discussion held with the contractor by the project engineer. The report will include a numerical rating substantiated by

a narrative report which describes the contractor's typical performance. The narrative will reference such documents as will substantiate the given numerical rating.

(10) The report will be endorsed by the district operations engineer or designated assistant who will provide a copy to the contractor.

(11) The contractor may appeal the rating to the district administrator in writing within twenty calendar days of the date the report is received by the contractor. If the report is not delivered to the contractor in person, it shall be forwarded by certified mail with a return receipt requested. The appeal must set forth the specific basis upon which it has been made.

(12) The district administrator will review all contractor performance reports after they have been endorsed and may modify the numerical or narrative rating if such is deemed appropriate. The contractor will be advised of any changes made. The district administrator will be required to make comments thereon only when the contractor's overall performance rating has been rated inadequate, below standard, or superior.

(13) Performance reports, when completed at district level, will be submitted to the secretary, Attn: Manager, precontract administration office, not later than forty-five calendar days following final completion of the project.

(14) The district administrator shall review the appeal and provide a written response to the contractor by certified mail (return receipt requested) within twenty calendar days of its receipt. A copy of the appeal and the response thereto will be forwarded to the secretary, Attn: Precontract administration office.

(15) The contractor may further appeal to the secretary in writing setting forth the specific basis for the appeal. The contractor's appeal shall be made within ten calendar days of the date of receipt of the district administrator's response. When making an appeal, the contractor may also present information in person. The secretary will consider the appeal and respond to it by certified mail within ~~((thirty))~~ sixty calendar days of its receipt. This determination shall be the final administrative act of the department.

(16) All prime contractor performance reports shall be reviewed by the office of the secretary for completeness, objectivity, and substantiation of numerical ratings. The secretary may modify the report as deemed appropriate as a result of the review. The rated contractor and district administrator shall be given a copy of the modified report. The contractor may appeal the modified report in the manner and within the time allotted in subsection (15) of this section to which the secretary shall respond as cited therein.

(17) A prime contractor performance report shall be considered a preliminary paper until all reviews and appeals have been accomplished and it shall have been stamped and initialed as having been "filed in the office of the secretary."

(18) DOT Form 421-010 is authorized.

AMENDATORY SECTION (Amending Order 134, filed 1/12/93, effective 2/12/93)

WAC 468-16-160 Interim reports. (1) Interim performance reports will be completed for contracts of long duration, particularly those in excess of one year and submitted to the manager, precontract administration office.

They will be completed annually on the anniversary of the start date of the contract. An interim report will also be completed when a contractor's total, overall work has become less than standard and the firm has been advised in writing of such performance. An interim report may never cover a period of more than one year. The report will be used by the secretary as a basis for determining whether a contractor will be placed in conditional status.

(2) In the case of a conditionally qualified firm, an interim report shall be submitted at sixty calendar day intervals for the project being undertaken by that firm subsequent to its being placed in conditional status. When a contractor's overall performance has not ~~((improved sufficiently to be removed from conditional status))~~ been brought up to standard after two consecutive interim reports have been prepared, no further interim reports shall be made except at the written request of the contractor. The ~~((initial))~~ date of the ~~((requested))~~ report will be the date of the contractor's request.

(3) The project engineer shall submit an interim report when it becomes evident that he or she will no longer be involved in the project, providing that project has been in progress for twenty-five percent of the working days assigned the project or ninety working days whichever is less.

(4) Interim performance reports will supplement and will be made a part of the final performance report.

(5) The procedures specified in WAC 468-16-150(8) through (17) are also applicable to the processing of the interim performance report.

(6) DOT Form 421-010 is authorized.

AMENDATORY SECTION (Amending Order 134, filed 1/12/93, effective 2/12/93)

WAC 468-16-180 Suspension of qualification. (1) A suspension may be ordered for cause or for a period pending the completion of investigation and any ensuing legal action for revocation of qualification.

(2) The secretary may, upon determination from reports, other documents, or through investigation that cause exists to suspend the qualification of a contractor, impose suspension upon a contractor.

(3) The secretary may suspend qualification for:

(a) Incompetency found detrimental to timely project completion or to the safety of the public or employees.

(b) Inadequate performance on one or more projects.

(c) Infractions of rules, regulations, specifications, and instructions which may adversely affect public health, welfare, and safety.

(d) Uncompleted work which might prevent the prompt completion of other work.

(e) Continual failure to comply with equal employment opportunity or women's, minority and disadvantaged business enterprise requirements.

(f) Debarment or suspension from participation in federal or state projects.

(g) Pending completion of debarment proceedings in federal or state projects.

(4) The maximum period of suspension for acts or deficiencies enumerated above are as follows:

(a) For subsection (3)(a) of this section - Three months.

(b) For subsection (3)(b), (c), (d), and (e) of this section - Six months.

(c) For subsection (3)(f) of this section - For duration of debarment or suspension by the federal or other state agency.

(d) For subsection (3)(g) of this section - Until a determination is made by the federal or other state agency.

(5) The secretary may reduce the period of suspension upon the contractor's supported request for reasons including, but not limited to:

(a) Newly discovered evidence;

(b) Elimination of causes for which the suspension was imposed.

AMENDATORY SECTION (Amending Order 128, filed 1/28/91, effective 2/28/91)

WAC 468-16-210 Prime contractor performance report. (1) The evaluation of contractor performance shall be made on a form substantially in the format as illustrated herein.

(2) A Prime Contractor Performance Report Handbook provides detailed instructions for preparation of the prime contractor performance report.



Washington State
Department of Transportation

Prime Contractor Performance Report

| Section I Contractor Data | | | Section II Project Data | | | |
|---|---------------------------------|-----------|----------------------------|----------------------|----------------------------|-----------------|
| Report type <input type="checkbox"/> Interim <input type="checkbox"/> Final <input type="checkbox"/> Special | Contractor no. (HQ use only) | District | Contract no. FA no. | County | SR | |
| Company Name | | | Project title | | | |
| Address | | Phone no. | Authorized working days | Working days charged | Work starting date | Completion date |
| Superintendent | | Foreman | Contract award amount | | Contract completion amount | |
| Work class performed by contractor: | | | | | | |
| Description of work: | | | | | | |

| Section III Numerical Rating | | | | | | | |
|--|-------------|-----------------|------------|----------------|------------|-------------|-------------|
| | *Inadequate | *Below Standard | Standard | Above Standard | * Superior | Rating | |
| A ADMINISTRATION / MANAGEMENT / SUPERVISION | | | | | | | |
| 1 Supervision and decision making | 2 | 3.8 | 4.5 | 5.6 | 6.4 | | |
| 2 Coordination and communication with subcontractors and suppliers | 2 | 2.2 | 3.2 | 4.2 | 4.8 | | |
| 3 Submission of documents and reports | 1 | 1.8 | 2.7 | 3.5 | 4.0 | | |
| 4 Adequacy and timeliness of progress schedules | 1 | 1.8 | 2.7 | 3.5 | 4.0 | | |
| 5 Public safety and traffic control | 2 | 2.2 | 3.2 | 4.4 | 4.8 | | |
| 6 Compliance with laws, ordinances and regulations | 1 | 1.2 | 1.9 | 2.5 | 3.0 | | |
| 7 Maintenance of employee safety standards | 1 | 1.2 | 1.9 | 2.5 | 3.0 | | |
| 8 Coordination and cooperation with department personnel on project matters | 1 | 1.2 | 1.9 | 2.5 | 3.0 | | |
| 9 Compliance with EEO, affirmative action requirements and MBE/DBE/WBE requirements | 1 | 1.2 | 1.9 | 2.5 | 3.0 | | |
| 10 Public relations with the general public, other agencies and adjacent contractors | 1 | 1.4 | 2.1 | 2.8 | 3.0 | | |
| Total | 13 | 18 | 24 | 34 | 39 | | |
| Q QUALITY OF WORK | | | | | | | |
| 1 Adherence to plans and specifications | 10 | 14.0 | 20 | 26 | 30 | | |
| 2 Standards of workmanship | 8 | 11.5 | 16 | 21 | 24 | | |
| 3 Completion of final (punch list) work | 2 | 2.5 | 4 | 5 | 6 | | |
| Total | 20 | 28 | 40 | 52 | 60 | | |
| P PROGRESS OF WORK | | | | | | | |
| 1 Completion of project within allotted time | 9 | 12.5 | 18.0 | 23.5 | 27.0 | | |
| 2 Scheduling and execution of schedule | 3 | 4.6 | 6.6 | 8.6 | 9.9 | | |
| 3 Delivery of materials and supplies | 1 | 1.3 | 1.8 | 2.3 | 2.7 | | |
| 4 Operation and use of equipment | 1 | 1.3 | 1.8 | 2.3 | 2.7 | | |
| 5 Use of personnel | 1 | 1.3 | 1.8 | 2.3 | 2.7 | | |
| Total | 15 | 21 | 30 | 39 | 45 | | |
| E EQUIPMENT | | | | | | | |
| 1 Condition | 1 | 1.5 | 2.0 | 2.5 | 3.0 | | |
| 2 Maintenance | 1 | 1.5 | 2.0 | 2.5 | 3.0 | | |
| Total | 2 | 3 | 4 | 5 | 6 | | |
| Grand Total (A+Q+P+E) | 50 | 70 | 100 | 130 | 150 | | |
| | RANGE | | (50-69) | (70-99.9) | (100) | (100.1-130) | (130.1-150) |

* Explain any inadequate, below standard, and superior ratings in narrative section.

PERFORMANCE SCORE HQ use only

PROPOSED

Contract No. _____

SECTION IV NARRATIVE RATING

A GENERAL ELEMENTS Enter comments which generally describe the contractor's overall performance and provide background data on the project.

B BELOW STANDARD ELEMENTS Enter comments here to substantiate below standard ratings. (See instructions)

C SUPERIOR ELEMENTS Enter comments here to substantiate superior ratings. (See instructions)

SECTION V AUTHENTICATION AND REVIEW

I certify that I have objectively prepared this report basing it upon data contained in available project records and discussed the report with the contractor.

PROJECT ENGINEER

DATE

I have reviewed this report for objectivity and accuracy. I have given a copy of this report to the rated contractor and I have advised the contractor that any appeal must be made within 20 calendar days.

DATE COPY GIVEN/MAILED TO CONTRACTOR

OPERATIONS ENGINEER OR DESIGNEE

DATE

I have reviewed this Contractor Performance Report and make the following comments and changes as cited herein or on attached sheets.

DISTRICT ADMINISTRATOR

DATE

PRIME CONTRACTOR PERFORMANCE REPORT INSTRUCTIONS

The Prime Contractor Performance Report, DOT Form 421-010, consists of two parts — page 1 and page 2. Page 1 consists of Sections I, II, and III. Page 2 consists of Sections IV and V. Please note that both pages are four-part forms.

Section I CONTRACTOR DATA

This section denotes the type report being submitted and provides data relating to the contracting firm, its status and supervisors. Interim reports must be submitted annually on the anniversary of the project start date for all projects exceeding a duration of one year.

Section II PROJECT DATA

This section provides basic project data to assist those reviewing or otherwise using the report to place this evaluation in proper perspective with regard to project size, costs, complexity, and completion time. Under Work Class Performed by Contractor, list that work using the general headings in the description of project documents (e.g., preparation, grading, structure, asphalt concrete paving, etc.)

Section III NUMERICAL RATING

This section contains the four weighted rating areas of (A) Administration/Management and Supervision, (Q) Quality of Work, (P) Progress of Work, and (E) Equipment. Each area contains statements which are weighted as to their importance within the rating area. The rater must consider the contractor's merits in relation to each statement by checking the adjectival rating space that best describes the contractor's typical performance for each statement and by assigning an appropriate numerical score in the Rating column, e.g., Supervision and decision making — Inadeq. 2-3.7; Below Sta. 3.8-4.4; Standard 4.5; Above Sta. 4.6-5.6; Superior 5.7-6.4.* The rater must enter the chosen score for each statement under the heading Rating, total each area and enter the grand total of all scores. The rater must be as objective as possible. There is only one value for the rating of standard. Standard may be equated with satisfactory. Standard is defined as the performance sufficient to meet the demand, need, or requirement. Those statements warranting an inadequate, below standard, or superior rating require justification in the narrative section of the report. If more space is needed, use additional blank sheets.

*Shaded areas indicate the range of inadequate and superior ratings. Unshaded areas indicate below standard and above standard ranges, which are separated by a line representing a standard rating.

Section IV NARRATIVE RATING

This section is divided into three parts.

- A General Elements — Make any general statements pertinent to reporting the contractor's work activity, e.g., innovativeness in performing the work and any other noteworthy contractor activities.
- B Below Standard Elements — List any actions or activities which substantiate a numerical rating for each statement falling within the range of inadequate or below standard. Each comment must be correlated to identify the rating area and statement number. Each comment must be related to substantiating data reported during the life of the project in the Inspector's Daily Report, Project Engineer's Diary, correspondence, or other pertinent records. This data must be available as a part of the administrative record in the event of hearings or litigation.
- C Superior Elements — Make supportive comments for superior ratings. Substantiation by recorded data should be available in the form of reports, letters, and other documents if not included in diaries and journals.

Comments made in response to B and C above should make reference to documented activities that describe the typical performance of the contractor.

Section V REVIEW AND AUTHENTICATION

This section provides for the recording of the review and authentication of the report by the rater, endorser, and reviewer. Its purpose is to verify that the contractor has been given a copy of the report and that the contractor is aware of his right to appeal. It also serves the purpose of verifying that the report has been reviewed for the purposes of assuring objectivity in its preparation and for the elimination of the influences of personalities. The report will be reviewed by the District Administrator. The District Administrator will enter narrative comments thereon only when the contractor's performance has been rated below standard, inadequate, or superior. The completed report is to be forwarded to the Secretary (Attn: Manager, Precontract Administration) to arrive not later than 45 calendar days after project completion.

DOT 421-010X (Instructions)
Revised 12/93

WSR 94-01-022
PROPOSED RULES
DEPARTMENT OF
NATURAL RESOURCES
[Filed December 3, 1993, 3:44 p.m.]

Original Notice.

Title of Rule: Chapter 332-120 WAC, Survey monuments—Removal or destruction.

Purpose: To amend WAC 332-120-010, 332-120-020, 332-120-030, 332-120-040, and 332-120-050 and to create WAC 332-120-060 and 332-120-070.

Statutory Authority for Adoption: RCW 58.24.040(8).

Statute Being Implemented: RCW 58.24.030 and 58.24.040 (1) and (8).

Summary: The purpose of these rules is to amend Order 131, filed on March 1 1972, to better define the applicability of the rules, improve the efficiency of the permitting process and simplify the form.

Reasons Supporting Proposal: The current process is not efficient, the current form is confusing, and the rules themselves create confusion regarding their overall applicability.

Name of Agency Personnel Responsible for Drafting: Donnell Fitch, 1111 Washington Street, S.E., Olympia, WA, 902-1197; Implementation and Enforcement: Mike Kinnaman, 1111 Washington Street S.E., Olympia, WA, 902-1180.

Name of Proponent: Department of Natural Resources, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: See Summary and Reasons Supporting Proposal above.

Proposal Changes the Following Existing Rules: WAC 332-120-010, cites authority; WAC 332-120-020, provides more comprehensive definitions; WAC 332-120-030, discusses applicability; WAC 332-120-040, regulates removal or destruction; WAC 332-120-050, establishes a more efficient process; WAC 332-120-060, establishes procedures to follow after project completion; and WAC 332-120-070, provides a cleaner, redesigned form.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The department has considered whether these rules are subject to the Regulatory Fairness Act and has determined they are not because these changes make it easier to respond to an existing regulation and have minor economic impact.

Hearing Location: Natural Resources Building, Room 172, 1111 Washington Street S.E., Olympia, WA 98504-7060, on February 3, 1994, at 9:00 a.m.

Submit Written Comments to: Mike Kinnaman, Surveys Manager, Department of Natural Resources, P.O. Box 47060, Olympia, WA 98504-7060, by February 3, 1994.

Date of Intended Adoption: February 10, 1994.

December 1, 1993
Kaleen Cottingham
Supervisor

AMENDATORY SECTION (Amending Order 131, filed 3/1/72, effective 4/7/72)

WAC 332-120-010 ((Definition:)) Authority. ((Monument: Any physical object or structure of record which marks or accurately references a corner or other survey point established by or under the supervision of a qualified party, including any corner or natural monument established by the general land office and its successor, the bureau of land management; section subdivision corners down to and including one sixteenth corners and any permanently monumented boundary, rights of way alignment, horizontal and vertical control points established by any governmental agency or private surveyor including street intersections but excluding dependent interior lot corner points.)) The department of natural resources, in accordance with RCW 58.24.030 and 58.24.040 (1) and (8), prescribes the following regulations concerning the removal or destruction of survey monuments and the perpetuation of survey points.

AMENDATORY SECTION (Amending Order 131, filed 3/1/72, effective 4/7/72)

WAC 332-120-020 ((Application:)) Definitions. ((All persons desiring to temporarily remove or destroy a section corner or any other land boundary mark or monument shall submit an application in substantially the following form to the commissioner of public lands, giving all pertinent information regarding existing conditions at the monument, necessity for its temporary removal or destruction, and methods proposed for referencing or witnessing the monument to preserve its position. The application form shall be signed by a registered professional engineer or land surveyor and shall bear his seal and license number.

State of Washington
Department of Natural Resources

APPLICATION FOR PERMIT TO TEMPORARILY REMOVE OR DESTROY SECTION CORNER, OR OTHER LAND BOUNDARY MARK OR MONUMENT

To the Commissioner of Public Lands:

Pursuant to the provisions of Paragraph 6, section 25, chapter 271, Laws of 1969 ex. sess., the undersigned (name) acting in and for (person, firm, corporation, or association) hereby applies for permit to

(temporarily remove) (destroy)
(strike out one)

the following described survey monument in Section . . . , Township . . . North, Range . . . in . . . County.

EXISTING CONDITIONS AT MONUMENT

Type of Monument: Sect. Cor. (-), Triangulation Sta. (-), Bench Mark (-), Other
Established By: GLO (-), Federal (-), State (-), Other
Marked By: Pipe (-), Rock (-), Tree (-), Cone, Mon. (-), Brass Cap (-), Other

PROPOSED

Original and/or Supporting Evidence Found:

Coordinates: State (Lambert) (), Zone, Other (specify) Y (N) X (E)

Source of Coordinates:

Accuracy of Coordinates:

SKETCH (Indicate Meridian)

NECESSITY FOR TEMPORARY REMOVAL OR DESTRUCTION OF MONUMENT

.....

PROPOSED METHOD OF REFERENCING and/or REESTABLISHING MONUMENT

SEAL Date

Signature of Registered Engineer or Land Surveyor

Lie. No. Address

Mail completed form to:

- Department of Natural Resources
- Bureau of Surveys and Maps
- P.O. Box 168 Tel. No. 753-5337
- Olympia, WA 98504) The following definitions shall apply to this chapter:

Department: The department of natural resources.
Engineer: Any person authorized to practice the profession of engineering under the provisions of chapter 18.43 RCW who also has authority to do land boundary surveying pursuant to RCW 36.75.110, 36.86.050, 47.36.010 or 58.09.090.

Geodetic control point: Points established to mark horizontal or vertical control positions that are part of the National Geodetic Survey Network.

Land boundary survey corner: A point on the boundary of any easement, right of way, lot, tract, or parcel of real property; a controlling point for a plat; or a point which is a General Land Office or Bureau of Land Management survey corner.

Land corner record: The record of corner information form as prescribed by the department of natural resources pursuant to chapter 58.09 RCW.

Land surveyor: Any person authorized to practice the profession of land surveying under the provisions of chapter 18.43 RCW.

Local control point: Points established to mark horizontal or vertical control positions that are part of a permanent government control network other than the National Geodetic Survey network.

Parcel: A part or portion of real property including but not limited to GLO segregations, easements, rights of way, aliquot parts of sections or tracts.

Removal or destruction: The physical disturbance or covering of a monument such that the survey point is no longer visible or readily accessible.

Survey monument: The physical structure, along with any references or accessories thereto, used to mark the location of a land boundary survey corner, geodetic control point, or local control point.

Survey Recording Act: The law as established and designated in chapter 58.09 RCW.

AMENDATORY SECTION (Amending Order 131, filed 3/1/72, effective 4/7/72)

WAC 332-120-030 ((Permit.)) Applicability. ((When satisfied that the application complies with all laws and regulations, the officer in charge of the bureau of surveys and maps, designated as the issuing officer for such permit, acting for the commissioner of public lands, shall issue a permit in substantially the following form for the temporary removal or destruction of the mark or monument. He shall maintain on file a public record of such permits issued, and provide copies of said permits on request and within 5 working days to the respective county or local governmental agencies where required.

Permit No.

State of Washington
Department of Natural Resources
Olympia, Washington

PERMIT TO TEMPORARILY REMOVE OR DESTROY SECTION CORNER, OR OTHER LAND BOUNDARY MARK OR MONUMENT

To: (applicant)
(street) (city) (state) (zip)

Pursuant to the authority vested in me by chapter 271, Laws of 1969 ex. sess., and in conformity with your application dated 19. ., you are hereby authorized to (temporarily remove) (destroy) the following described survey monument:

.....

This permit is granted subject to the provisions of law and the regulations promulgated by me, as given on the reverse side of the application form. The work performed by you under this permit is to be reported to the issuing officer on the Report form below, and is subject to field inspection at his discretion.

The requirement for reference to the Washington Coordinate System is hereby waived.

Yes () No ()

PROPOSED

BERT L. COLE
Commissioner of Public Lands

Date of Issue _____ by _____

(Authorized Issuing
Officer)

(Detach at perforations)

State of Washington
Department of Natural Resources
Olympia, Washington

~~REPORT ON TEMPORARY REMOVAL OR DESTRUCTION OF SECTION CORNER OR OTHER LAND BOUNDARY MARK OR MONUMENT~~

(date)

To the Commissioner of Public Lands:

In accordance with your Permit No. _____ dated _____ 19____, I have (temporarily removed) (destroyed) monument named therein. There follows a description of monuments and accessories I established to perpetuate the original location of this point.

(Sketch attach sheet if necessary)

(signature)

(address)

(Seal)
License No. _____

Except, applications concerning any monument of the federal horizontal or vertical geodetic networks will be referred for appropriate action to the National Ocean Survey and as applicable and if so identified, the establishing party or agency of any monument will be immediately notified of the pending action.

Except, under extraordinary circumstances, to prevent hardship and delay, the issuing officer upon assurance by an authorized party that proper precautions are being taken to perpetuate a point, may verbally grant permission to proceed pending the processing and issuance of a written permit.)
(1) No survey monument shall be removed or destroyed before a permit is obtained as required by this chapter.

(2) Any person, corporation, association, department, or subdivision of the state, county or municipality responsible for an activity that may cause a survey monument to be removed or destroyed shall be responsible for ensuring that the original survey point is perpetuated. It shall be the responsibility of the governmental agency or others performing construction work or other activity (including road or street resurfacing projects) to adequately search the records and the physical area of the proposed construction work or other activity for the purpose of locating and referencing any known or existing survey monuments.

A government agency, when removing a local control point that it has established, shall be exempted from the requirements of this chapter.

(3) Survey monuments subject to this chapter are those monuments marking local control points, geodetic control points, and land boundary survey corners.

In regard to local or geodetic control points the department will defer authorization for the removal or destruction of the survey monument to the agency responsible for the establishment or maintenance of the control point. Such agency may, at their discretion, exempt the applicant from the remonumentation requirements of this chapter. Such exemption shall be noted by the agency on the application form.

AMENDATORY SECTION (Amending Order 131, filed 3/1/72, effective 4/7/72)

WAC 332-120-040 ((Standards.)) Monument removal or destruction. ((The issuing officer may waive the requirement for referencing to the Washington state coordinate system where such referencing is deemed to be impractical. Replacement and/or reference monuments to be of a permanent nature suitable for local conditions, and identified as to the responsible party or agency and the month and year when set. Replacement monuments or reference monuments established in lieu thereof shall be of a kind or a higher standard than the monument being replaced. Said issuing officer shall be guided by the following recommended standards for remonumentation as published by the department of natural resources pursuant to section 27, chapter 271, Laws of 1969 ex. sess.:

(1) All concrete monuments used must contain reinforcing steel or other magnetic material, except those enclosed in monument cases.

(2) A minimum of 2" diameter iron pipe should be used for monuments in unpaved streets.

(3) Monument cases shall be used in paved streets. Minimum monument in cases shall be 2" diameter concrete filled iron pipe.)) (1) All land boundary survey monuments that are removed or destroyed shall be replaced or witness monuments shall be set to perpetuate the survey point.

(2) A land boundary survey corner shall be referenced to the Washington Coordinate System of 1983, adjusted in 1991, prior to removal or destruction. See WAC 332-130-060, Geodetic control, survey standards.

An applicant may request a variance from this referencing requirement by so noting in the applicant information section on the permit and providing the justification on the back of the form. The department shall note whether the variance is approved or not approved and shall provide the reason for not approving the request.

AMENDATORY SECTION (Amending Order 131, filed 3/1/72, effective 4/7/72)

WAC 332-120-050 ((Report.)) Application process. ((Upon completion of the temporary removal and replacement or the destruction of a mark or monument and the proper establishment of reference monuments, the applicant shall within 10 days complete the report form which is attached to his permit (see permit form under WAC 332-120-030) showing all pertinent information as to work

~~accomplished, marks, reference marks, reference points, and any accessories or features by which the point can be located if inaccessible or otherwise difficult to ascertain. When completed, this form shall be detached from the permit and be returned to the issuing officer for his permanent file. The issuing officer shall furnish copies of this form upon request and within 5 working days to the county and local governing agencies as applicable.)~~ (1) Whenever a survey monument needs to be removed or destroyed the application required by this chapter shall be submitted to the department.

It shall be completed, signed and sealed by a land surveyor or engineer as defined in this chapter.

(2) Upon receipt of a properly completed application, the department shall promptly issue a permit authorizing the removal or destruction of the monument; provided that:

(a) In extraordinary circumstances, to prevent hardship or delay, a verbal authorization may be granted, pending the processing and issuance of a written permit. A properly completed application shall be submitted by the applicant within fifteen days of the verbal authorization.

(b) Applications received by the department concerning local or geodetic control points will be referred to the appropriate agency for action. The applicant will be notified when such action is taken.

(3) One application may be submitted for multiple monuments to be removed or destroyed as part of a single project; however, there shall be separate attachments to the application form detailing the required information for each monument removed or destroyed.

NEW SECTION

WAC 332-120-060 Project completion—Perpetuation of the original position. (1) After completion of the activity that caused the removal or destruction of the monument, a land surveyor or engineer shall, unless specifically authorized otherwise:

(a) Reset a suitable monument at the original survey point or, if that is no longer feasible;

(b) Establish permanent witness monuments easily accessible from the original monument to perpetuate the position of the preexisting monument.

(2) Land boundary survey monumentation required by this chapter shall meet the requirements of the RCW 58.09.120 and 58.09.130.

(3) After completion of the remonumentation, the land surveyor or engineer shall complete the report form required by this chapter and forward it to the department.

(4) Additionally, after remonumenting any corner originally monumented by the GLO or BLM, a land corner record form shall also be filed with the county auditor as required by the Survey Recording Act.

NEW SECTION

WAC 332-120-070 Application/permit form. The following form shall be used when making application to remove or destroy a survey monument:

APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT

PERMIT NO.

You are hereby authorized to remove or destroy the described survey monument(s):

AUTHORIZING SIGNATURE/DATE
(DNR or Other Authorizing Agency)

APPLICANT INFORMATION:

COMPANY OR AGENCY:

ADDRESS:

TELEPHONE NO:

I estimate that this work will be finished by (date) _____.

SEAL/SIGNATURE/DATE

_____ I request a variance from the requirement to reference to the Washington Coordinate System. (Please provide your justification on the back of this form.)

Upon completion, return this original to the Department of Natural Resources with the Report Section on the back appropriately completed. NOTE: You must perpetuate a land boundary survey corner, either by remonumenting it or establishing witness monuments (RCW 58.09.130 and 58.24.040 (8)).

MULTIPLE MONUMENTS:

_____ Check here if this form is being used for more than one monument. You must attach separate sheets showing the information required below for each monument affected. You must seal, sign and date each sheet.

INDEXING INFORMATION FOR AN INDIVIDUAL MONUMENT:

1) THE MONUMENT IS LOCATED IN: SEC _____ TWP _____ RGE _____ 1/4-1/4 _____

2) ADDITIONAL IDENTIFIER: (e.g., BLM designation for the corner, street intersection, plat name, block, lot, etc.)

MONUMENT INFORMATION: Describe: 3) the monument/accessories found marking the position, 4) the temporary references set to remonument the position (include coordinates when applicable), and 5) the permanent monument(s) to be placed on completion (if a permanent witness monument(s) is set include the references to the original position)..

(Form prescribed 12/93 by the Public Land Survey Office, Dept. of Natural Resources, pursuant to RCW 58.24.040 (8).)

JUSTIFICATION FOR VARIANCE FROM COORDINATE REFERENCING REQUIREMENTS:

_____ Approved _____ Not Approved. Reason for not approving:

COMPLETION REPORT FOR MONUMENT
REMOVAL OR DESTRUCTION

_____ I have perpetuated the position(s) as per the detail as shown on the application form.

SEAL/SIGNATURE/DATE

OR

_____ I was unable to fulfill the plan as shown on the application form. Below is the detail of what I did do to perpetuate the original position(s). (If the application covered multiple monuments attach sheets providing the required information. Seal, sign and date each sheet.)

SEAL/SIGNATURE/DATE

WSR 94-01-040
PROPOSED RULES
PUBLIC DISCLOSURE COMMISSION

[Filed December 6, 1993, 3:46 p.m.]

Original Notice.

Title of Rule: WAC 390-16-011 Forms for political committee registration, 390-16-012 Forms for candidate registration, 390-16-031 Forms for statement of contributions deposit, 390-16-032 Forms for auction report, 390-16-033 Earmarked contributions report, 390-16-041 Forms for summary of total contributions and expenditures, and 390-16-050 Forms for contributions and expenditures of political committees not domiciled in Washington state.

Purpose: Implement provisions of Initiative 134.

Statutory Authority for Adoption: RCW 42.17.390.

Summary: Amend campaign disclosure forms to reflect changes required by Initiative 134.

Reasons Supporting Proposal: Consistent with statutory requirements.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: David R. Clark, Public Disclosure Commission, Olympia, 753-1111.

Name of Proponent: Public Disclosure Commission, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Obtain required campaign disclosure information as efficiently, succinctly, and uniformly as possible.

Proposal Changes the Following Existing Rules: Amends forms to accommodate reporting of additional information required by Initiative 134.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Second Floor Conference Room, Evergreen Plaza Building, 711 Capitol Way, Olympia, on January 25, 1994, at 9 a.m.

Submit Written Comments to: Public Disclosure Commission, P.O. Box 40908, Olympia, WA 9850-40908, by December 23, 1993.

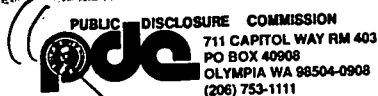
Date of Intended Adoption: January 25, 1994.

December 6, 1993

Karen M. Copeland
Administrative Officer

[AMENDATORY SECTION (Amending WSR 93-15-004, filed 7/7/93)]

WAC 390-16-011 Forms—Registration statement for political committees. The official form for providing the statement of organization by political committees for designating a campaign treasurer and depository and for reporting information required to qualify for abbreviated campaign finance reporting is designated "C-1pc", revised ((4/93)) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.



REGISTRATION: POLITICAL COMMITTEES

| | | |
|---------------------|--|----------------|
| C1 (4/93) | P M O A R K R E C E I V E D | PDC OFFICE USE |
| | | |

Committee Name (Show entire official name.) _____ Acronym _____

Mailing Address _____

City _____ County _____ Zip + 4 _____

NEW REGISTRATION OR UPDATE OF PRIOR REGISTRATION?

NEW: Complete all items in the registration

AMENDED: Supply the information below which has changed

COMMITTEE STATUS

Continuing committee

19 _____ election only; election date _____

1. What is the purpose or description of the committee?

Bona Fide Political Party Committee (official state or county central committee or legislative district committee). If you are not supporting the entire party ticket, attach a list or specify here the names of the candidates you support. _____ Ballot Number _____ FOR AGAINST

Ballot Committee (Initiative, Bond, Levy, Recall, etc.)
Name or description of ballot measure: _____

Political Action Committee, Political Club or Organization (including party clubs). If PAC is associated with a business, association, labor union, or similar entity, specify name: _____

Other. Explain on attached sheet.

2. Related or affiliated committees. List name, address and relationship.

3. HOW MUCH DO YOU PLAN TO SPEND DURING THIS ENTIRE ELECTION CAMPAIGN, INCLUDING THE PRIMARY AND GENERAL ELECTIONS? BASED ON THAT ESTIMATE, CHOOSE ONE OF THE REPORTING OPTIONS BELOW. (If the committee is a continuing organization, estimate spending on a calendar year basis.)

If no box is checked you are obligated to use Full Reporting. See reporting instruction booklets for information about reports required and changing reporting options.

ABBREVIATED REPORTING
We will use the Abbreviated Reporting System. We will raise and spend no more than \$2,000 and will accept no more than \$200 in the aggregate from any one contributor.

FULL REPORTING
We will use the Full Reporting System. We understand this means we must file the frequent, detailed reports required by law.

4. Treasurer's Name and Address (List deputy treasurers on attached sheet.) _____ Daytime Telephone Number () _____

5. Committee's Principal Officers. List name, address and title.

6. Campaign Bank or Depository.

Branch _____ City _____

7. Campaign records are to be open for public inspection the last eight days before the election. (Two hours daily between 8 AM - 8 PM, Monday - Friday.) Show location and hours below:

Street Address (Do not use a Post Office Box Number) _____ Hours _____

8. Fair Campaign Practices: All committee officers are encouraged to subscribe to the Code of Fair Campaign Practices printed in campaign instruction booklets.

9. Signature and Certification. I certify that this statement is true, complete and correct to the best of my knowledge.
Committee treasurer's signature _____ Date: _____

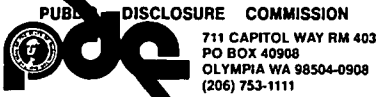


Need campaign finance forms and instructions for the reporting system selected? Please check one of the following boxes:

I already have forms and instructions.

I will get forms and instructions from my county elections office.

I want the Public Disclosure Commission to mail me the proper forms and instructions.



INSTRUCTIONS

Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Persons, committees, organizations and groups that receive contributions and make expenditures in support of or opposition to: candidates in jurisdictions of 5,000 or more registered voters as of the last general election; statewide ballot issues; or local ballot issues in jurisdictions with 1,000 or more registered voters as of the last general election.

WHEN TO FILE Within 2 weeks of organizing a committee or first expecting to receive contributions or make expenditures, whichever occurs first. **(Committees that organize within three weeks of an election must file within three business days of forming or of expecting to receive contributions or make expenditures.)** File an amended C-1pc form within 10 days of significant changes to the registration information provided. Continuing political committees using Abbreviated Reporting must also file a C-1pc annually in January. Reports are considered filed as of the postmark date or date hand-delivered to PDC.

WHERE TO FILE Send the **original to PDC** at the above address. Send a **copy to the County Auditor** (County Elections Department) of the county in which the committee headquarters is located. If there is no headquarters, send to the County Auditor of the county in which the treasurer resides.

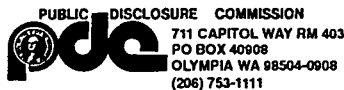
REPORTING OPTIONS Abbreviated Reporting: May be used by committees that raise and spend no more than \$2,000 on their campaign activities. No more than \$200 may be accepted from any contributor. A 10th-of-the-month post primary, general or special election C-4 ABB report is required. Continuing committees re-register annually and file a year-end C-4 ABB by January 10 for any year in which they do not participate in an election.

Full Reporting: Required of all committees that do not qualify for Abbreviated Reporting. Frequent, detailed reports of contributions and expenditures are required until the committee is disbanded and the campaign account is closed.

OTHER REPORTS C-3 (Cash Receipts Report): Used with Full Reporting only.
C-4 (Contribution and Expenditure Report): Used with Full Reporting only.
C-4 ABB (Receipts and Expenditures Summary): Filed by candidates and committees using Abbreviated Reporting.
Special Report E (Earmarked Contributions Report): Filed by committees that receive funds earmarked for use on behalf of a candidate or another political committee.

FAIR CAMPAIGN PRACTICES CODE This is a voluntary code adopted by PDC to stress the importance of ethical campaign practices. All committee members and supporters are encouraged to follow the Code's principles.

For assistance, call or write PDC!



REGISTRATION: POLITICAL COMMITTEES

C1PC (11/93) PORT RECORD RECEIVED PDC OFFICE USE

Committee Name (Show entire official name.) Acronym Mailing Address City County Zip + 4

NEW REGISTRATION OR UPDATE OF PRIOR REGISTRATION? COMMITTEE STATUS

1. What is the purpose or description of the committee? Bona Fide Political Party Committee, Ballot Committee, Political Action Committee, etc.

2. Related or affiliated committees. List name, address and relationship.

3. HOW MUCH DO YOU PLAN TO SPEND DURING THIS ENTIRE ELECTION CAMPAIGN... ABBREVIATED REPORTING vs FULL REPORTING

4. Campaign Manager's or Media Contact's Name and Address Daytime Telephone Number

5. Treasurer's Name and Address (List deputy treasurers on attached sheet.) Daytime Telephone Number

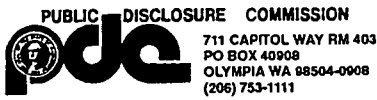
6. Committee's Principal Officers and/or Decision-Makers. List name, title, and address. Continue on attached sheet if necessary.

7. Campaign Bank or Depository. Branch City

8. Campaign records are to be open for public inspection the last eight days before the election. Street Address Hours

9. Eligibility to Give to State Office Candidates... 10. Signature and Certification. I certify that this statement is true, complete and correct to the best of my knowledge.

Need campaign finance forms and instructions for the reporting system selected? Please check one of the following boxes:



Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Persons, committees, organizations and groups that receive contributions and make expenditures in support of or opposition to: candidates in jurisdictions of 5,000 or more registered voters as of the last general election; statewide ballot issues; or local ballot issues in jurisdictions with 1,000 or more registered voters as of the last general election.

WHEN TO FILE Within 2 weeks of organizing a committee or first expecting to receive contributions or make expenditures, whichever occurs first. **(Committees that organize within three weeks of an election must file within three business days of forming or of expecting to receive contributions or make expenditures.)** File an amended C-1pc form within 10 days of significant changes to the registration information provided. Continuing political committees using Abbreviated Reporting must also file a C-1pc annually in January. Reports are considered filed as of the postmark date or date hand-delivered to PDC.

WHERE TO FILE Send the **original to PDC** at the above address. Send a copy to the **County Auditor** (County Elections Department) of the county in which the committee headquarters is located. If there is no headquarters, send to the County Auditor of the county in which the treasurer resides.
 City ballot issue committees and other political committees giving to city candidates, check with City Clerk regarding any local filing requirement.

Contact County Elections Department or PDC for Instruction Manuals and Reporting Forms

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

[AMENDATORY SECTION (Amending WSR 93-15-004, filed 7/7/93)]

WAC 390-16-012 Forms—Registration statement for candidates. The official form for providing the statement of organization by candidates and candidate's committees, for designating a campaign treasurer and depository and for reporting information required to qualify for mini campaign finance reporting or abbreviated campaign finance reporting is designated "C-1", revised ((4/93)) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington, 98504. Any attachments shall be on 8-1/2" x 11" white paper.

PROPOSED



PUBLIC DISCLOSURE COMMISSION
711 CAPITOL WAY RM 403
PO BOX 40908
OLYMPIA WA 98504-0908
(206) 753-1111

REGISTRATION:
CANDIDATES/CANDIDATE COMMITTEE

| | |
|-------------------------|--------------------------------------|
| C1 (4/93) | P M O A S R T K |
| | R E C E I V E D |

PDC OFFICE USE

Candidate's Name (Do not abbreviate. Include candidate's full name)

Candidate's Committee Name (Do not abbreviate.)

Mailing Address

City County Zip + 4

1. What office are you running for? Office District, County or City Position No.

2. Political party (if partisan office)

3. Date of general or special election

4. How much do you plan to spend during your entire election campaign, including the primary and general elections? Based on that estimate, choose one of the reporting options below.

If no box is checked you are obligated to use Option III, Full Reporting. See instruction manuals for information about reports required and changing reporting options.

Option I MINI REPORTING
I will limit contributions or expenditures during this campaign to my filing fee of \$ _____ plus no more than \$500, including charges for the voters pamphlet. I will accept no more than \$200 in the aggregate from any contributor except myself.

Option II ABBREVIATED REPORTING
I will use the Abbreviated Reporting System. I will raise and spend no more than \$2,000 and will accept no more than \$200 in the aggregate from any contributor except myself.

Option III FULL REPORTING
I will use the Full Reporting System. I understand frequent, detailed reports are required.

5. Treasurer's Name and Address (Candidate may be treasurer.) (List deputy treasurers on attached sheet.) Daytime Telephone Number ()

6. Committee's Principal Officers. List name, address and title.

7. Campaign Bank or Depository Branch City

8. Related or Affiliated Political Committees. List name, address and relationship.

9. Campaign records are to be open for public inspection the last eight days before election. (Two hours daily between 8 AM - 5 PM, Monday - Friday.) Show location and hours below:
Street Address (Do not use a Post Office Box Number) Hours

10. Fair Campaign Practices: All candidates and committee officers are encouraged to subscribe to the Code of Fair Campaign Practices printed in the instruction manuals.

11. CERTIFICATION:
I certify that this report is true, complete and correct to the best of my knowledge.
Candidate's signature Date



Please advise us about which forms and instructions you need. Remember, candidates must file a Financial Affairs Statement (F-1) unless a current one is already on file with PDC. Check all boxes which apply.

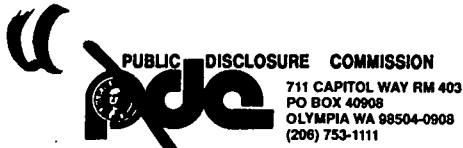
I already have financial affairs and campaign disclosure forms and instructions.

I am using Mini Reporting and, therefore, do not need the other campaign disclosure forms. In addition, I have already filed my Financial Affairs Statement and need no additional F-1 forms.

I will obtain all forms and instructions from my county elections office.

I want PDC to mail me: the F-1 instruction booklet (which includes forms) the appropriate campaign disclosure forms and instructions.

DISTRIBUTION OF THIS REPORT:
ORIGINAL — Public Disclosure Commission
COPY — County Elections Dept. (Auditor)
COPY — Your own records



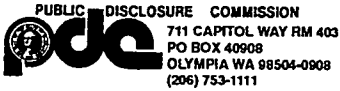
| | |
|-----------------------|---|
| PDC FORM C1 | CANDIDATE REGISTRATION STATEMENT |
|-----------------------|---|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this report.
Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Candidates who run for state or local office in jurisdictions that had 5,000 or more registered voters as of the last general election or in jurisdictions covering an entire county.
- WHEN TO FILE** Within 2 weeks of becoming a candidate (that is, receiving contributions, making expenditures, announcing candidacy, reserving space or filing for office, whichever occurs first). File an amended registration within 10 days of changes affecting accuracy of previously filed C-1. Report is considered filed as of postmark date or date hand-delivered to PDC.
- WHERE TO FILE** Send the **original to PDC** at the above address. Send a **copy to County Auditor** (County Elections Department) of the county in which the candidate resides.
- REPORTING OPTIONS**
 - Option I (MINI): May be used by candidates who raise and spend no more than \$500 on their campaigns (including personal funds), in addition to the filing fee amount. Limited to receiving \$200 or less from any contributor other than the candidate (who may give the entire \$500).
 - Option II (ABBREVIATED): May be used by candidates who raise and spend no more than \$2,000 on their campaigns (including personal funds). Filing fee costs count toward this limit. No more than \$200 may be accepted from any contributor other than the candidate.
 - Option III (FULL): Required of candidates who do not qualify for Mini or Abbreviated Reporting. Frequent, detailed reports of contributions and expenditures are required as long as the campaign account remains open.
- OTHER REPORTS**
 - F-1 (Financial Affairs Statement): Filed by candidates within 2 weeks of becoming a candidate, unless a previous F-1 filing has been made in the same calendar year.
 - C-3 (Cash Receipts Report): Used with Full Reporting only.
 - C-4 (Contribution and Expenditure Report): Used with Full Reporting only.
 - C-4 ABB (Receipts and Expenditures Summary): Filed by candidates using Abbreviated Reporting.
- FAIR CAMPAIGN PRACTICES CODE** This is a voluntary code adopted by PDC to stress the importance of ethical campaign practices. All candidates and campaign workers are encouraged to follow the Code's principles.

For assistance, call or write PDC!



711 CAPITOL WAY RM 403
PO BOX 40908
OLYMPIA WA 98504-0908
(206) 753-1111

**REGISTRATION:
CANDIDATES/CANDIDATE COMMITTEE**

Candidate's Name (Do not abbreviate. Include candidate's full name)

Candidate's Committee Name (Do not abbreviate.)

Mailing Address

City

County

Zip + 4

C1
(11/83)

PDC OFFICE USE

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1. What office are you running for? Legislative District, County or City Position No. Do you now hold this office? Yes ___ No ___

2. Political party (if partisan office) 3. Date of general or special election

4. How much do you plan to spend during your entire election campaign, including the primary and general elections? Based on that estimate, choose one of the reporting options below.

If no box is checked you are obligated to use Option III, Full Reporting. See instruction manuals for information about reports required and changing reporting options.

Option I MINI REPORTING
In addition to my filing fee of \$_____, I will raise and spend no more than \$500, including charges for the voters pamphlet. I will accept no more than \$200 in the aggregate from any contributor except myself.

Option II ABBREVIATED REPORTING
I will raise and spend no more than \$2,000, including my filing fee and charges for the voters pamphlet. I will accept no more than \$200 in the aggregate from any contributor except myself.

Option III FULL REPORTING
I will use the Full Reporting System. I understand frequent, detailed reports are required.

5. Campaign Telephone Number: ()
Campaign Fax Number: ()

6. Treasurer's Name and Address (Candidate may be treasurer.) (List deputy treasurers on attached sheet.) Daytime Telephone Number ()

7. Committee's Principal Officers. List name, address and title.

8. Campaign Bank or Depository Branch City

9. Related or Affiliated Political Committees. List name, address and relationship.

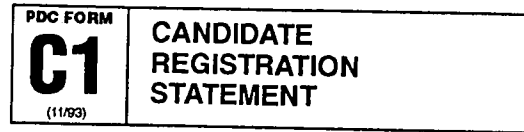
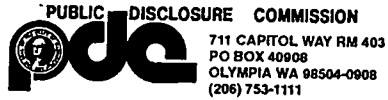
10. Campaign records are to be open for public inspection the last eight days before election. (Two hours daily between 8 AM - 8 PM, Monday - Friday) Show location and hours below.
Street Address (Do not use a Post Office Box Number) Hours

11. CERTIFICATION:
I certify that this report is true, complete and correct to the best of my knowledge.

Candidate's Signature Date

Please advise us about which forms and instructions you need. Remember, candidates must file a Financial Affairs Statement (F-1) unless a current one is already on file with PDC. Check all boxes which apply.
 I already have financial affairs and campaign disclosure forms and instructions.
 I am using Mini Reporting and, therefore, do not need the other campaign disclosure forms. In addition, I have already filed my Financial Affairs Statement and need no additional F-1 forms.
 I will obtain all forms and instructions from my county elections office.
 I want PDC to mail me: the F-1 instruction booklet (which includes forms) the appropriate campaign disclosure forms and instructions.

DISTRIBUTION OF THIS REPORT:
ORIGINAL — Public Disclosure Commission
COPY — County Elections Dept. (Auditor)
COPY — Your own records
(Note: City candidates contact City Clerk to see if local filing is required.)



Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Candidates who run for state office or local office in jurisdictions that had 5,000 or more registered voters as of the last general election or in jurisdictions covering an entire county.
- WHEN TO FILE** Within 2 weeks of becoming a candidate (that is, receiving contributions, making expenditures, announcing candidacy, reserving space or filing for office, whichever occurs first). File an amended registration within 10 days of changes affecting accuracy of previously filed C-1. Report is considered filed as of postmark date or date hand-delivered to PDC.
- WHERE TO FILE** Send the **original to PDC** at the above address. Send a **copy to County Auditor** (County Elections Department) of the county in which the candidate resides. Candidates for city offices should contact City Clerk to learn if local filing is required.

Contact County Elections Department or PDC for Instruction Manuals and Reporting Forms



Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

[AMENDATORY SECTION Amending WSR 93-09-002, filed 4/8/93]

WAC 390-16-031 Forms for statement of contributions deposit. The official form for statement of contributions deposit is designated "C-3", revised (~~3/93~~) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.

PROPOSED



| | |
|---|---|
| PDC FORM C3 <small>(393)</small> | CASH RECEIPTS AND MONETARY CONTRIBUTIONS |
|---|---|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this report.
Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

GENERAL GUIDELINES

- 1) All contributions and miscellaneous receipts must be deposited into the campaign bank account. Complete a C-3 for each bank deposit. File the reports as described below.
- 2) Anonymous contributions (those for which you do not have the contributor's name and address) are limited to the larger of \$300 or 1% of the total contributions received to date for this election. Unidentified small contributions raised through qualifying fund raising events do not count toward the anonymous contribution limit.
- 3) A candidate's cash contributions to the campaign are reported on Form C-3. Loans from the candidate are reported on line 1c of the C-3 as well as Schedule L. Unreimbursed out-of-pocket expenditures are reported as in-kind contributions on Schedule B to the C-4. Reimbursed out-of-pocket expenditures are reported on Schedule A to the C-4.
- 4) Contributions of \$25 or less may be combined and the total amount reported on line 3e of the C-3. While the names and addresses of contributors giving \$25 or less need not be reported, treasurers must keep a private list of these small contributors and the amounts given. When the total donated by any of these contributors exceeds \$25, that person's name and address must be included on the relevant C-3 report.
- 5) During the 21 days before the general election, contributions from one source may not exceed \$50,000 to a state-wide candidate or \$5,000 to any other candidate or committee. These limits do not apply to contributions received from major WA State political parties.

WHO MUST FILE

Treasurer of each candidate and political committee using Full Reporting. No C-3s are filed with Mini and Abbreviated Reporting. C-3 reports may be signed by designated deputy treasurers.

FILING DATES

During the four months or more before the general or a special election (prior to July 1 for general elections), file C-3s each time a C-4 report is filed.

Within four months or less before the general or special election (beginning July 1 for general elections), file the C-3 on the same day the bank deposit is made. (Contributions are to be deposited within five business days of receipt.)

WHERE TO FILE

Send original C-3 reports, along with Schedule L's, if necessary, to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

CONTRIBUTIONS OVER \$500

During the 7 days before the primary and the 21 days before the general election, candidates and committees must file special reports of each contribution received that exceeds \$500. The report discloses the amount of the contribution, the date received, the name and address of the donor as well as the name and address of the recipient.

If possible, a written report (C-3 form, telegram, mailgram, or nightletter) of these large contributions should be delivered to PDC within 48 hours (or the first working day after receipt). Otherwise, call PDC with the information required within the 48-hour or first working day timeframe and mail written confirmation of this telephone report within two days of receiving the contribution.

Any political committee, lobbyist or lobbyist employer who makes a contribution over \$500 during the 7 days before the primary or 21 days before the general election must notify PDC and the recipient of the contribution within 24 hours or the first working day after the contribution was made.

For assistance, call or write PDC!



CASH RECEIPTS MONETARY CONTRIBUTIONS

C3 (11/93)

POST RECEIPTS

PDC OFFICE USE

Candidate or Committee Name (Do not abbreviate. Use full name.)

Mailing Address

City

Zip + 4

Office Sought (candidates)

1. MONETARY CONTRIBUTIONS DEPOSITED IN ACCOUNT

| Date Received | Please type or print clearly in ink. | Amount | Total |
|---------------|--|--------|-------|
| | a. Anonymous | | |
| | b. Candidate's personal funds deposited in the bank (include candidate loans in 1c) | | |
| | c. Loans, notes, security agreements. Attach Schedule L | | |
| | d. Miscellaneous receipts (interest, refunds, auctions, other). Attach explanation | | |
| | e. Small contributions \$25.00 or less not itemized and number of persons giving _____ (persons) | | |

2. CONTRIBUTIONS OVER \$25.00

| Date Received | Contributor's Name, Address, City, State, Zip | Contributions of \$100 or more: * Employer's Name, City and State | P R I N T | Q U E R Y | Amount | Aggregate Total* |
|---------------|--|--|-----------------------|-----------------------|--|------------------|
| | | | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | <input type="checkbox"/> Check here if additional pages are attached | | | | Sub-total Amount from attached pages | |

*See Reverse For Details

3. TOTAL FUNDS RECEIVED AND DEPOSITED OR CREDITED TO ACCOUNT

Sum of parts 1 and 2 above. Enter this amount in line 1, Schedule A to C4.

4. Date of Deposit

I certify that this report is true and complete to the best of my knowledge

Treasurer's Daytime Telephone No.: ()

Treasurer's Signature

Date



Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.
 Consult PDC instruction manuals when completing this report.

CONTRIBUTIONS OF \$100 OR MORE

When an individual gives the campaign a total of \$100 or more in the aggregate, that person's employer must be identified by name, city, state and the person's occupation must also be disclosed. Once an individual gives at least \$100, occupation and employer information will appear on every report showing additional contributions from the individual.

For all candidates – when an individual gives \$100 or more since the beginning of the campaign, show occupation and employer information.

For Single Election Political Committees (e.g., ballot issue committees) – when an individual gives \$100 or more since the beginning of the campaign, show occupation and employer.

For Continuing Political Committees (e.g., party committees & PACs) – when an individual gives \$100 or more since the beginning of the calendar year, show occupation and employer.

PRIMARY/GENERAL ELECTION

Candidates for legislative or state executive office must specify in Part 2 of the C-3 form whether a contribution is designated for the primary or the general election. If a contribution is for the primary election, put a "X" in the PRI box; if it counts toward the contributor's general election limit, put an "X" in the GEN box. If one check is used to make both a primary and a general election contribution, use two separate contributor blocks - one each for the primary and general donations. See instruction manual for example.

Local and judicial office candidates, political committees and continuing political committees - primary and general election designations not required; disregard these boxes.

AGGREGATE TOTAL

The total put in the Aggregate Total column for each contributor will depend on who is filing the report. See below.

Legislative or State Executive Candidates: Show the total given for each election. If the contributor is giving a primary election contribution, the Aggregate Total figure is the total of that person's primary election contributions. If the GEN box is checked, the Aggregate Total is the contributor's general election total. (Only your campaign records and PDC's computer records will keep track of the grand total for both elections.)

Local and Judicial Candidates: Show the total given since the beginning of the campaign.

Political Committees Organized for One Election Only: Show the total given since the beginning of the campaign.

Continuing Political Committees: Show the total given since the beginning of the calendar year.

RECEIPTS CONTINUATION SHEET (Attachment to C-3 Form)

Page _____

Candidate or Committee Name (Do not abbreviate. Use full name.)

Deposit Date

| 2. CONTRIBUTIONS OVER \$25.00 | | Contributions of \$100 or more: | P | G | Amount | Aggregate Total |
|-------------------------------|---|---------------------------------|---|---|--------|-----------------|
| Date Received | Contributor's Name, Address, City, State, Zip | Employer's Name, City and State | R | E | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
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Page Total _____

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

[**AMENDATORY SECTION** (Amending WSR 92-19-011, filed 9/3/92)]

WAC 390-16-032 Forms—Auction report. The official form for reporting items donated and sold at auctions, as required by RCW 42.17.090 (1)(b), is designated "Attachment Au", revised (~~8/92~~) 11/93. This attachment shall accompany each C-3 which reports the receipt of funds from an auction. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington, 98504.

AUCTION REPORT

ATTACHMENT
TO C3

Au

Use this form as an attachment to C3 to report items donated and sold at auctions.
Please see the reverse for an example of a report.

Candidate or committee name _____ Date auction was held _____

| Item No. description | Name and address | Fair market value | Sale price | Amount over fair market value | Total given by this person during campaign |
|----------------------|------------------|-------------------|------------|-------------------------------|--|
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |

Cash receipts, this page
(Total, sale price column)



Total from attached pages



Total cash receipts
(Put this amount in part 1d of C3 report)



See instructions on reverse

I certify that the information herein is true, correct and complete to the best of my knowledge.

Treasurer's signature

Date

Instructions

Use this form as an attachment to your C3 (Cash Receipts and Bank Deposits).

Item No. description: As each item to be auctioned is received, assign it a number and a brief description.

Contributor: The person or organization which donates an article to be auctioned. If your committee purchases items for auction, state "purchased by committee" under contributor's name.

Buyer: The person who buys the item being auctioned.

Fair market value: The retail value of the article. If the retail value cannot be estimated or found, state "unknown."

Sale price: The amount the buyer paid for the item.

Amount over fair market value: The amount the sale price exceeds fair market value. If sale price is less than fair market value, leave blank.

Total given by this person during campaign:

Contributor—Fair market value of the item (substitute sale price, if lower) plus all previous contributions made to the candidate or committee.

Buyer—Amount over fair market value plus all previous contributions made to candidate or committee.

Cash payments: A payment of more than \$50.00 may not be accepted unless a receipt, signed by the buyer and the candidate, treasurer or deputy treasurer is prepared and made part of the committee's financial records.

AUCTION REPORT

Use this form as an attachment to C3 to report items donated and sold at auctions.

| Candidate or committee name | | | | Date auction was held | |
|--|---|-------------------|------------|-------------------------------|--|
| JONES FOR SHERIFF COMMITTEE | | | | 9/14/XX | |
| Item No. description | Name and address | Fair market value | Sale price | Amount over fair market value | Total given by this person during campaign |
| NO. 1 USE BEACH CABIN | Contributor JOHN DOE 200 "A" STREET, SEATTLE 98101 | \$100 | \$125 | \$25 | \$100 |
| | Buyer MARY SMITH 400 "B" STREET, TACOMA 98402 | | | | |
| NO. 2 DINNER FOR 4 | Contributor SAM BROWN 123 MILITARY ROAD, ANYTOWN 99101 | \$80 | \$60 | | \$60 |
| | Buyer TOM MIX RT. 2, BOX 1, SADDLE MT. 98900 | | | | |
| NO. 3 BOAT CRUISE | Contributor CAPT. MOBY DICK 401 WATERFRONT, POULSBO 98701 | \$75 | \$90 | \$15 | \$75 |
| | Buyer MERRI RYDER 204 E. LAND, MYBURG 99100 | | | | |
| | Contributor | | | | |
| | Buyer | | | | |
| Cash receipts, this page (Total, sale price column) | | | \$275.00 | | |
| Total from attached pages | | | 0 | | |
| Total cash receipts (Put this amount in part 1d of C3 report) | | | \$275.00 | | |

AUCTION REPORT

Use this form as an attachment to C3 to report items donated and sold at auctions.
Please see the reverse for an example of a report.

ATTACHMENT
TO C3
(11/93)

Au

| | |
|-----------------------------|-----------------------|
| Candidate or Committee Name | Date auction was held |
|-----------------------------|-----------------------|

| Item No. Description | Name and Address | P | R | I | G | E | N | Fair market value | Sale price | Amount over fair market value | Aggregate Total* |
|-------------------------|------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|------------|-------------------------------------|---------------------|
| Contributor | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Buyer | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Contributor | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Buyer | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Contributor | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Buyer | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Contributor | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Buyer | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Contributor | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Buyer | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Contributor | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Buyer | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |

Cash receipts, this page
(Total, sale price column) →

Total from attached pages →

Total cash receipts
(Put this amount in part 1d of C3 report) →

*If an individual—whether a contributor or buyer—has given \$100 or more to the campaign, show his or her occupation and employer's name, city & state on attached sheet.

See instructions on reverse

| | |
|--|------|
| I certify that the information herein is true, correct and complete to the best of my knowledge. | |
| Treasurer's signature | Date |

INSTRUCTIONS

Item No./Description: As each item to be auctioned is received, assign it a number and a brief description.

Contributor: The person or organization that donates an item or service to be auctioned. If the campaign purchases items for auction, state "purchased by committee" under contributor's name. If auction is held by state office candidate, designate which election (PRI or GEN) contribution is for. Contribution amount is fair market value of item or service and is subject to any applicable contribution limit. Adjust fair market value amount if sold for less than initial fair market value. See No. 2 below.

Buyer: The person who buys the item or service being auctioned. If auction is held by state office candidate, designate which election (PRI or GEN) buyer is giving to when purchase price exceeds fair market value amount.

Fair Market Value: The retail value of the article. Adjust if amount paid is less than fair market value. See No. 2 below.

Sale Price: The amount the buyer paid for the item or service.

Amount Over Fair Market Value: The amount the sale price exceeds fair market value. If sale price is less than or equal to the fair market value, leave blank. The amount paid in excess of fair market value is a contribution from the buyer and is subject to any applicable contribution limit.

Aggregate Total:

Contributor: Fair market value of the donation plus all previous contributions made during campaign (for state office candidates, all contributions made for election designated; for continuing political committees, all contributions made during calendar year).

Buyer: Amount over fair market value plus all previous contributions made during campaign (for state office candidates, all contributions made for election designated; for continuing political committees, all contributions made during calendar year).

Cash Payments: No cash payment of more than \$50 may be accepted unless a receipt, signed by the buyer and the candidate, treasurer or deputy treasurer, is prepared and made part of the campaign's financial records.

AUCTION REPORT

Use this form as an attachment to C3 to report items donated and sold at auctions.

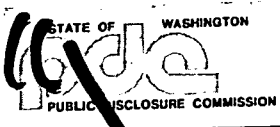
| Candidate or committee name Sam Smith for State Senate | | | | | Date auction was held Sept. 14, 199X | | | | | | |
|--|---|--------------------------|--------------------------|--------------------------|---|--------------------------|-------------------------------------|-------------------|------------|-------------------------------|-----------------|
| Item No. description | Name and address | P | R | I | G | E | N | Fair market value | Sale price | Amount over fair market value | Aggregate Total |
| No. 1 Use Beach Cabin | Contributor John Doe 200 "A" Street, Seattle, WA 98101 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | \$100 | | | \$100 |
| | Buyer Mary Smith 400 "B" Street, Tacoma, WA 98402 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | \$125 | \$25 | \$25 |
| No. 2 Dinner For 4 | Contributor Sam Brown 123 Military Road, Anytown, WA 98101 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | \$80 | | | \$60 |
| | Buyer Tom Mix Rt. 2, Box 1, Saddle Mt., WA 98900 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | \$60 | | |
| No. 3 Boat Cruise | Contributor Capt. Moby Dick 401 Waterfront, Poulsbo, WA 98701 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | \$75 | | | \$75 |
| | Buyer Merri Ryder 204 E. Land, Myberg, WA 99100 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | \$90 | \$15 | \$15 |
| Cash receipts, this page (Total, sale price column) → | | | | | | | | | \$275 | | |
| Total from attached pages → | | | | | | | | | 0 | | |
| Total cash receipts (Put this amount in part 1d of C3 report) → | | | | | | | | | \$275 | | |

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

[AMENDATORY SECTION (Amending WSR 90-16-083, filed 7/31/90)]

WAC 390-16-033 Earmarked contributions—
Reporting; form. The official form for reporting the details surrounding an earmarked contribution, as required by RCW 42.17.125, is designated "Special Report E," revised ((~~1/90~~)) 11/93. This report shall be filed within two working days of receiving a contribution earmarked for another candidate or committee. Copies of this form are available at the Commission Office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504.

PROPOSED



EARMARKED CONTRIBUTION

SPECIAL REPORT

E

PDC OFFICE USE

P
M
O
A
S
R
T
K

R
E
C
E
I
V
E
D

1. Name of committee filing this report (Candidate or committee which received a contribution earmarked for another.)

Address

City

County

Zip

2. Original source of earmarked contribution

Name

Address

City

State

Zip

3. Contribution Date Amount/Value Description (Fully describe in kind contributions)

4. Name of candidate or committee to be benefited

Address

City

County

Zip

If candidate, what office is the person seeking? _____

5. Certification: I certify that the information contained herein is true, complete and correct to the best of my knowledge.

Treasurer's signature _____

Date _____

INSTRUCTIONS:

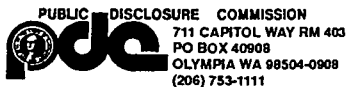
The purpose of this report is to highlight receipt of an earmarked contribution. (That is, a contribution given to one candidate or political committee with the understanding, intent or instruction that it be used to benefit another candidate or committee.) This report is filed in addition to any other required reporting of the transaction.

A separate "Special Report E" is filed for each earmarked contribution received by any candidate or political committee.

File this report within two working days of receiving the earmarked contribution. Mail or deliver the original to PDC. Send a copy to the benefiting candidate or committee, also within two working days.

NOTE: Candidates or committees for whom the earmarked contribution is ultimately intended report the contribution when they actually receive it. Such candidates and committees will use form C-3 or Schedule B to the C-3 to show receipt of the contribution. See PDC instruction manual for examples and more information.

Public Disclosure Commission
711 Capitol Way, Room 403 ♦ PO Box 40908 ♦ Olympia, WA 98504-0908 ♦ (206) 753-1111



EARMARKED CONTRIBUTION

| | | |
|----------------------------------|----------|---|
| SPECIAL REPORT (11/93) | E | PDC OFFICE USE |
| | | P O S T M A R K R E C I P I E N T |

1. Name of committee filing this report (Candidate or committee which received a contribution earmarked for another.)

Address

City

County

Zip

2. Original source of earmarked contribution

Name

Address

City

State

Zip

| 3. Contribution Date | Amount/Value | Description (Fully describe in-kind contributions) | If contribution is to benefit a state office candidate, designate whether it's for Primary or General Election. |
|----------------------|--------------|---|---|
| | | | Primary _____ General _____ |

4. Name of candidate or committee to be benefited

Address

City

County

Zip

If candidate, what office is the person seeking? _____

5. Certification: I certify that the information contained herein is true, complete and correct to the best of my knowledge.

Treasurer's signature _____ Date _____

The purpose of this report is to highlight receipt of an earmarked contribution. (That is, a contribution given to one candidate or political committee with the understanding, intent or instruction that it be used to benefit another candidate or committee.) This report is filed in addition to any other required reporting of the transaction.

A separate "Special Report E" is filed for each earmarked contribution received by any candidate or political committee.

File this report within two working days of receiving the earmarked contribution. Mail or deliver the original to PDC. Send a copy to the benefiting candidate or committee, also within two working days.

NOTE: Candidates for legislative and statewide executive office are subject to state contribution limits. Earmarked contributions count toward the applicable limit and are attributed to the original source of the contribution (unless another person controlled the choice of recipient). It's a violation for anyone to accept a contribution in excess of the relevant limit. Verify with the campaign of a legislative or statewide office candidate before accepting a contribution earmarked for the benefit of such a candidate.

Public Disclosure Commission
711 Capitol Way, Room 403 • PO Box 40908 • Olympia, WA 98504-0908 • (206) 753-1111

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

[AMENDATORY SECTION (Amending WSR 93-09-002, filed 4/8/93)]

WAC 390-16-041 Forms—Summary of total contributions and expenditures. (1) The official form for reports of contributions and expenditures by ~~((local and judicial))~~ candidates and political committees who use the "full" reporting option is designated "C-4", revised ~~((3/93))~~ 11/93, and includes Schedule A, revised ~~((3/93))~~ 11/93, Schedule B, revised ~~((3/93))~~ 11/93, Schedule C, revised 3/93, and Schedule L, revised ~~((1/90))~~ 11/93.

(2) ~~((The official form for reports of contributions and expenditures by candidates for the state legislature or state executive office and who use the "full" reporting option is designated C 4, revised 1/90, and includes Schedule A s/1, revised 10/91, Schedule B s/1, revised 10/91, Schedule C, revised 3/93, and Schedule L, revised 1/90.~~

~~((3))~~ The official form for reports of contributions and expenditures by candidates and political committees who use the "abbreviated" reporting option is designated "C-4abb," revised ~~((7/92))~~ 11/93.

~~((4))~~ (3) Copies of these forms are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.

Clode

PUBLIC DISCLOSURE COMMISSION

SUMMARY, FULL REPORT RECEIPTS AND EXPENDITURE

| | |
|---------------------|---|
| C4 (3/93) | PDC OFFICE USE |
| | P O S T R I K R E C E I V E D |

Candidate or Committee Name (Do not abbreviate. Use full name.) _____

Mailing Address _____

City _____ County _____ Zip + 4 _____

Report Period Covered From: (last C-4) _____ To: (end of period) _____

Is this your final report? Yes _____ No _____

RECEIPTS

1. Previous total cash and in kind contributions (From line 8, last C-4) (If beginning a new campaign or calendar year, see instruction booklet) _____
2. Cash received (From line 2, Schedule A) _____
3. In kind contributions received (From line 1, Schedule B) _____
4. Total Cash and in kind contributions received this period (Line 2 plus 3) _____
5. Loan principal repayments made (From line 2, Schedule L) _____
6. Corrections (From line 1 or 3, Schedule C) _____ Show + or (-) _____
7. Net adjustments this period (Combine line 5 & 6) _____ Show + or (-) _____
8. Total cash and in kind contributions during campaign (Combine lines 1, 4 & 7) _____
9. Total pledge payments due (From line 2, Schedule B) _____

EXPENDITURES

10. Previous total cash and in kind expenditures (From line 17, last C-4) (If beginning a new campaign or calendar year, see instruction booklet) _____
11. Total cash expenditures (From line 4, Schedule A or line 5, Schedule A-S/I) _____
12. In kind expenditures (goods & services) (From line 1, Schedule B) _____
13. Total cash and in kind expenditures made this period (Line 11 plus line 12) _____
14. Loan principal repayments made (From line 2, Schedule L) _____
15. Corrections (From line 2 or 3, Schedule C) _____ Show + or (-) _____
16. Net adjustments this period (Combine lines 14 & 15) _____ Show + or (-) _____
17. Total cash and in kind expenditures during campaign (Combine lines 10, 13 and 16) _____

CANDIDATES
Please complete:

| | Won | Lost | Unopposed | Name not on ballot |
|------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Primary election | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| General election | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Treasurer's Daytime Telephone No.: _____
()

CASH SUMMARY

18. Cash on hand (Line 8 minus line 17) _____
(Line 18 should equal your checkbook balance plus your petty cash balance)
19. Liabilities: (Sum of loans and debts owed) _____
20. Balance (Surplus or deficit) (Line 18 minus line 19) _____

CERTIFICATION: I certify that the information herein and on accompanying schedules and attachments is true to the best of my knowledge.

Candidate's Signature _____ Date _____ Treasurer's Signature _____ Date _____



| | |
|--|--|
| PDC FORM C4 <small>(3/93)</small> | CONTRIBUTION AND EXPENDITURE SUMMARY |
|--|--|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this report.
Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using Full Reporting.

- FILING DATES**
- 1) File with C-1 (Registration) if you received contributions or made expenditures before registering.
 - 2) File on the 10th of each month if contributions or expenditures were over \$200 since last C-4 was filed. (Note: These 10th-of-the-month reports are not required if another C-4 must be filed during that month. See #3 below.)
 - 3) For each primary, general and special election in which the candidate or political committee makes an expenditure, file
 - ◆ 20 days prior to the election
 - ◆ 7 days prior to the election
 - ◆ 10th of the first month after the election*

(*Not required after primary from candidates who will be in the general election or from continuing political committees.)

4) File final report when campaign is finished or committee closes operation. Often, this coincides with the primary or general post-election, 10th-of-the-month report.

All reports are considered filed as of the postmark date or the date hand-delivered to PDC.

SCHEDULES AND ATTACHMENTS State executive and legislative candidates will file Schedules A-s/I, B-s/I, C and L, as appropriate, along with the C-4.

Judicial and local office candidates and all political committees will file Schedules A, B, C and L, as appropriate, along with their C-4 reports.

All candidates and committees must attach any C-4 reports that were due but not filed.

WHERE TO SEND REPORTS Send original C-4 reports along with any attachments to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

- OTHER REPORTS**
- C-3 (Cash receipts Report): Used with Full Reporting only.
 - C-4 (Contribution and Expenditure Report): Used with Full Reporting only.
 - C-4 ABB (Receipts and Expenditures Summary): Filed by candidates using Abbreviated Reporting.
 - Special Report E (Earmarked Contributions Report): Filed by committees that receive funds earmarked for use on behalf of another candidate or committee.

For assistance, call or write PDC!

PROPOSED



SUMMARY, FULL REPORT RECEIPTS AND EXPENDITURE

C4
(11/93)

PDC OFFICE USE

PAID
FOR
RECEIVED

Candidate or Committee Name (Do not abbreviate. Use full name.)

Mailing Address

City Zip + 4 Office Sought (Candidates)

Report Period Covered From: (last C-4) To: (end of period) Is this your final report? Yes No

RECEIPTS

- 1. Previous total cash and in kind contributions (From line 8, last C-4) (If beginning a new campaign or calendar year, see instruction booklet) _____
- 2. Cash received (From line 2, Schedule A) _____
- 3. In kind contributions received (From line 1, Schedule B) _____
- 4. Total Cash and in kind contributions received this period (Line 2 plus 3) _____
- 5. Loan principal repayments made (From line 2, Schedule L) _____
- 6. Corrections (From line 1 or 3, Schedule C) _____ Show + or (-) _____
- 7. Net adjustments this period (Combine line 5 & 6) _____ Show + or (-) _____
- 8. Total cash and in kind contributions during campaign (Combine lines 1, 4 & 7) _____
- 9. Total pledge payments due (From line 2, Schedule B) _____

EXPENDITURES

- 10. Previous total cash and in kind expenditures (From line 17, last C-4) (If beginning a new campaign or calendar year, see instruction booklet) _____
- 11. Total cash expenditures (From line 4, Schedule A or line 5, Schedule A-9/I) _____
- 12. In kind expenditures (goods & services) (From line 1, Schedule B) _____
- 13. Total cash and in kind expenditures made this period (Line 11 plus line 12) _____
- 14. Loan principal repayments made (From line 2, Schedule L) _____
- 15. Corrections (From line 2 or 3, Schedule C) _____ Show + or (-) _____
- 16. Net adjustments this period (Combine lines 14 & 15) _____ Show + or (-) _____
- 17. Total cash and in kind expenditures during campaign (Combine lines 10, 13 and 16) _____

CANDIDATES

Please complete:

| | Won | Lost | Unopposed | Name not on ballot |
|------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Primary election | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| General election | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Treasurer's Daytime Telephone No.:

()

CASH SUMMARY

- 18. Cash on hand (Line 8 minus line 17) [Line 18 should equal your bank account balance(s) plus your petty cash balance.] _____
- 19. Liabilities: (Sum of loans and debts owed) _____
- 20. Balance (Surplus or deficit) (Line 18 minus line 19) _____

CERTIFICATION: I certify that the information herein and on accompanying schedules and attachments is true to the best of my knowledge.

Candidate's Signature

Date

Treasurer's Signature

Date



Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE

Each candidate and political committee using Full Reporting.

FILING DATES

- 1) File with C-1 (Registration) if you received contributions or made expenditures before registering.
- 2) File on the 10th of each month if contributions or expenditures were over \$200 since last C-4 was filed. (Note: These 10th-of-the-month reports are not required if another C-4 must be filed during that month. See #3 below.)
- 3) For each primary, general and special election in which the candidate or political committee makes an expenditure, file
 - ◆ 21 days prior to the election
 - ◆ 7 days prior to the election
 - ◆ 10th of the first month after the election*

(*Not required after primary from candidates who will be in the general election or from continuing political committees.)

- 4) File final report when campaign is finished or committee closes operation. Often, this coincides with the primary or general post-election, 10th-of-the-month report.

All reports are considered filed as on the postmark date or the date hand-delivered to PDC.

WHERE TO SEND REPORTS

Send original C-4 reports along with any attachments to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

(Candidates for city offices, city ballot issue committees and other political committees who give to city candidates or ballot issue committees check with City Clerk regarding any local filing requirement.)

CASH RECEIPTS AND EXPENDITURE

SCHEDULE to C4 **A**

Candidate or Committee Name (Do not abbreviate. Use full name.)

1. CASH RECEIPTS (Contributions) which have been reported on C3. List each deposit made since last C4 report was submitted.

| Date of deposit | Amount | Date of deposit | Amount | Date of deposit | Amount | Total deposits |
|-----------------|--------|-----------------|--------|-----------------|--------|----------------|
| | | | | | | |

2. TOTAL CASH RECEIPTS Enter also on line 2 of C4

CODES FOR CLASSIFYING EXPENDITURES: If one of the following codes is used to describe an expenditure, no other description is generally needed. The exceptions are: 1) if expenditures are in-kind or earmarked contributions to another candidate or committee or independent expenditures that benefit another candidate or committee, identify the candidate or committee in the Description block; and 2) when reporting payments to vendors for travel expenses, identify the traveller in the Description block.

- | | | |
|-----------------------------------|---|------------------------------------|
| CODE DEFINITIONS ON REVERSE | C - Contributions (monetary, in-kind & transfers) | P - Postage, Mailing Permits |
| | I - Independent Expenditures | S - Surveys and Polls |
| | L - Literature, Brochures, Printing | F - Fundraising Event Expenses |
| | B - Broadcast Advertising (Radio, TV) | T - Travel, Accommodations, Meals |
| | N - Newspaper and Periodical Advertising | M - Management/Consulting Services |
| | O - Other advertising (yard signs, buttons, etc.) | W - Wages, Salaries, Benefits |
| | | G - General Operation and Overhead |

3. EXPENDITURES

- Expenditures of **\$50 or less**, including those from petty cash, need not be itemized. Add up these expenditures and show the total in the amount column on the first line below.
- Itemize each expenditure of **more than \$50** by date paid, name and address of vendor, code/description, and amount.
- For each payment to a candidate, campaign worker, PR firm, advertising agency or credit card company, attach a list of detailed expenses or copies of receipts/invoices supporting the payment.

| Date Paid | Vendor or Recipient (Name and Address) | Code | Purpose of Expense and/or Description | Amount |
|-----------|--|------|---------------------------------------|--------|
| N/A | Expenses of \$50 or less | N/A | N/A | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Total from attached page

4. TOTAL CASH EXPENDITURES

Enter also on line 11 of C4

EXPENDITURE CODE DEFINITIONS AND USES

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column specify who was benefited and, if in kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

CASH RECEIPTS AND EXPENDITURE

SCHEDULE to C4 A (11/93)

Candidate or Committee Name (Do not abbreviate. Use full name.)

1. CASH RECEIPTS (Contributions) which have been reported on C3. List each deposit made since last C4 report was submitted.

Table with columns: Date of deposit, Amount, Date of deposit, Amount, Date of deposit, Amount, Total deposits

2. TOTAL CASH RECEIPTS

Enter also on line 2 of C4

CODES FOR CLASSIFYING EXPENDITURES: If one of the following codes is used to describe an expenditure, no other description is generally needed. The exceptions are:

- 1) If expenditures are in-kind or earmarked contributions to a candidate or committee or independent expenditures that benefit a candidate or committee, identify the candidate or committee in the Description block;
2) When reporting payments to vendors for travel expenses, identify the traveller and travel purpose in the Description block; and
3) If expenditures are made directly or indirectly to compensate a person or entity for soliciting signatures on a statewide initiative or referendum petition, use code "V" and provide the following information on an attached sheet: name and address of each person/entity compensated, amount paid each during the reporting period, and cumulative total paid all persons to date to gather signatures.

Table with columns: CODE DEFINITIONS ON REVERSE, C - Contributions (monetary, in-kind & transfers), I - Independent Expenditures, L - Literature, Brochures, Printing, B - Broadcast Advertising (Radio, TV), N - Newspaper and Periodical Advertising, O - Other Advertising (yard signs, buttons, etc.), V - Voter Signature Gathering, P - Postage, Mailing Permits, S - Surveys and Polls, F - Fundraising Event Expenses, T - Travel, Accommodations, Meals, M - Management/Consulting Services, W - Wages, Salaries, Benefits, G - General Operation and Overhead

3. EXPENDITURES

- a) Expenditures of \$50 or less, including those from petty cash, need not be itemized. Add up these expenditures and show the total in the amount column on the first line below.
b) Itemize each expenditure of more than \$50 by date paid, name and address of vendor, code/description, and amount.
c) For each payment to a candidate, campaign worker, PR firm, advertising agency or credit card company, attach a list of detailed expenses or copies of receipts/invoices supporting the payment.

Table with columns: Date Paid, Vendor or Recipient (Name and Address), Code, Purpose of Expense and/or Description, Amount

Total from attached pages

4. TOTAL CASH EXPENDITURES

Enter also on line 11 of C4

EXPENDITURE CODE DEFINITIONS AND USES

(for use on Schedule A and Schedule B, Item 3)

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** your campaign legally makes to other campaigns. Put a "C" in the Code column, in the Description column specify who was benefited and, if in-kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- V VOTER SIGNATURE GATHERING**. Use "V" for expenditures made directly or indirectly to compensate a person or entity for soliciting or procuring signatures on a statewide initiative or referendum petition. Attach itemization of each such payment.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

IN KIND CONTRIBUTIONS, PLEDGES, ORDERS, DEBTS, OBLIGATIONS

SCHEDULE **B**
to C4 (3/93)

Candidate or Committee Name (Do not abbreviate. Use full name.)

1. IN KIND CONTRIBUTIONS RECEIVED (goods, services, discounts, etc.)

| Date received | Contributor's name and address | Description of contribution | Fair market value | Total given by this person during campaign or year |
|---------------|--------------------------------|--|-------------------|--|
| | | TOTAL (Enter also on line 3 and line 12 of C4) | | |

2. PLEDGES RECEIVED BUT NOT YET PAID. List each pledge of \$100.00 or more.

| Date you were notified of pledge | Name and address of person making pledge (including organizations) | Amount | Total given by this person during campaign or year |
|----------------------------------|--|--|--|
| | | TOTAL (Include new pledges above and all other outstanding pledges. Enter also on line 9 of C4) | |

3. ORDERS PLACED, DEBTS, OBLIGATIONS, ESTIMATED EXPENDITURES (Excluding loans. Report loans on Schedule L.)

- a. List each debt, obligation or estimated expenditure that is more than \$250.00.
- b. List each debt, obligation or estimated expenditure that is more than \$50.00 and has been outstanding for over 30 days.

| Expenditure Date | Vendor's/Recipient's Name and Address) | Amount Owed | Code* | OR | Description of Obligation |
|------------------|--|--|-------|----|---------------------------|
| | | TOTAL (Include in line 19 of C4) | | | |

EXPENDITURE CODE DEFINITIONS AND USES

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column specify who was benefited and, if in-kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

IN KIND CONTRIBUTIONS, PLEDGES, ORDERS, DEBTS, OBLIGATIONS

SCHEDULE **B**
to C4 (11/93)

Candidate or Committee Name (Do not abbreviate. Use full name.)

1. IN KIND CONTRIBUTIONS RECEIVED (goods, services, discounts, etc.)

| Date Received | Contributor's Name and Address | Description of Contribution | Fair Market Value | Aggregate Total | P R I | | G E N | | If \$100 or more, Employer Name, City, State & Occup. |
|--|--------------------------------|--|-------------------|-----------------|-------|--|-------|--|---|
| | | | | | | | | | |
| | | | | | | | | | Occupation |
| | | | | | | | | | Occupation |
| | | | | | | | | | Occupation |
| <input type="checkbox"/> Check here if additional pages are attached | | TOTAL (Enter also on line 3 and line 12 of C4) | | | | | | | Occupation |

2. PLEDGES RECEIVED BUT NOT YET PAID. List each pledge of \$100.00 or more.

| Date Notified of Pledge | Name and Address of Pledge Maker | Fair Market Value | Aggregate Total | P R I | | G E N | | If \$100 or more, Employer Name, City, State & Occup. |
|--|----------------------------------|---|-----------------|-------|--|-------|--|---|
| | | | | | | | | |
| | | | | | | | | Occupation |
| | | | | | | | | Occupation |
| <input type="checkbox"/> Check here if additional pages are attached | | TOTAL (include new pledges above and all other outstanding pledges.) (Enter also on line 9 of C4) | | | | | | Occupation |

3. ORDERS PLACED, DEBTS, OBLIGATIONS. (Give estimate if actual amount not know. Exclude loans. Report loans on Schedule L)

- a. List each debt, obligation or estimated expenditure that is more than \$250.00.
- b. List each debt, obligation or estimated expenditure that is more than \$50.00 and has been outstanding for over 30 days.

| Expenditure Date | Vendor's/Recipient's Name and Address) | Amount Owed | Code* | OR | Description of Obligation |
|--|--|--|-------|----|---------------------------|
| | | | | | |
| <input type="checkbox"/> Check here if additional pages are attached | | TOTAL (Include in line 19 of C4) | | | |

EXPENDITURE CODE DEFINITIONS AND USES

(for use on Schedule A and Schedule B, Item 3)

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** your campaign legally makes to other campaigns. Put a "C" in the Code column, in the Description column specify who was benefited and, if in-kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- V VOTER SIGNATURE GATHERING**. Use "V" for expenditures made directly or indirectly to compensate a person or entity for soliciting or procuring signatures on a statewide initiative or referendum petition. Attach itemization of each such payment.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

CORRECTIONS

SCHEDULE **C**
to C4

Candidate or Committee Name (Do not abbreviate. Use full name.)

Date

1. CONTRIBUTIONS AND RECEIPTS (Include mathematical corrections.)

| Date of report | Contributor's name or description of correction | Amount reported | Corrected amount | Difference (+ or -) |
|---|---|-----------------|------------------|---------------------|
| | | | | |
| Total corrections to contributions Enter on line 6 of C4. Show + or (-). | | | | |

2. EXPENDITURES (Include mathematical corrections.)

| Date of report | Vendor's 's name or description of correction | Amount reported | Corrected amount | Difference (+ or -) |
|---|---|-----------------|------------------|---------------------|
| | | | | |
| Total corrections to expenditures Enter on line 15 of C4. Show + or (-). | | | | |

3. REFUNDS FROM VENDORS. The below listed amounts have been received as refunds on expenditures previously reported. The refund has been deposited and reported on C3 report, Line 1d.

| Date of refund | Source / person making refund | Amount of refund |
|--|-------------------------------|------------------|
| | | |
| Total refunds Enter as (-) on line 6 & line 15 of C4. | | |

LOANS

See instructions and examples on reverse

SCHEDULE
TO C3
OR C4

L
(1/90)

Candidate or committee name

1. LOAN RECEIVED.

| Date loaned | Lender's name and address | Amount of loan | Annual interest rate | Repayment schedule | Date due |
|-------------|---------------------------|----------------|----------------------|--------------------|----------|
| | | | | | |

Also include this amount on line 1c, C3 report →

Name and address of each endorser, co-signer, guarantor or other person liable for the loan:

2. LOAN PAYMENTS.

| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed |
|-----------|---------------------------|----------------|---------------|---------------|--------------|
| | | | | | |

Total Principal Paid (Enter also on lines 5 and 14, C-4 report) →

Total Payments (Enter as an expenditure on Schedule A) →

3. LOAN FORGIVEN.

| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed |
|------|---------------------------|-----------------|------------------|-----------------|--------------|
| | | | | | |

4. LOANS STILL OWED. List each loan which has previously been reported and still has a balance due.


| Loan date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed |
|-----------|---------------------------|-----------------|------------------------------|-------------|
| | | | | |

Subtotal

New loans received during this reporting period

Check here if continued on attached sheet.

Total Loans Owed (Include in total on line 19, C-4 report)

PUBLIC DISCLOSURE COMMISSION

 711 CAPITOL WAY RM 403 FJ42
 PO BOX 40908
 OLYMPIA WA 98504-0908
 (206) 753-1111

| | | |
|----------------------------|--------------------|--------------|
| SCHEDULE TO C3 OR C4 | L (1/90) | LOANS |
|----------------------------|--------------------|--------------|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this schedule.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using full reporting that receives one or more campaign loans.

FILING DATES When a loan is received by the campaign, complete Part 1 and file the Schedule L with the C-3 report that corresponds with the loan's deposit into the account. Use a separate schedule for each loan received.

When a loan is paid or forgiven, in whole or in part, complete Part 2 and/or Part 3 and file the Schedule L with the C-4 covering the period when the payment or forgiveness occurred.

When one or more loans remain unpaid, complete Part 4 and file the schedule with each C-4 report until all loans are repaid in full or forgiven. (The same schedule may be used to show loan payments, forgiveness information and to show which loans remain unpaid.)

LOAN RECEIVED
 (Information would appear on separate Schedule L)

LOAN PAYMENTS

LOAN FORGIVEN

LOANS STILL OWED

| LOANS | | See instructions and examples on reverse | | SCHEDULE TO C3 OR C4 | | L (1/90) | |
|---|---------------------------|--|------------------------------|--|--------------|----------|--|
| Candidate or committee name Adrian Adams for State House | | | | | | | |
| 1. LOAN RECEIVED. | | | | | | | |
| Date received | Lender's name and address | Amount of loan | Annual interest rate | Payment schedule | Date due | | |
| 2/10/9X | Candidate | \$5,000 | 12% | \$200/month | Not fixed | | |
| Amount to include this amount (line 1c, C-3 report) | | \$5,000 | | | | | |
| Name and address of each lender, co-lender, guarantor or other person liable for the loan | | | | | | | |
| Commercial loan to the candidate from Washington State Bank. Loan co-signed by Sam P. Smith, 145 Boulevard Drive, Podunk, WA and Jane S. Paul, 541 B Street, Podunk, WA. Each guaranteed \$2,500 of the loan. | | | | | | | |
| 2. LOAN PAYMENTS. | | | | | | | |
| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed | | |
| 3/30/9X | Candidate | \$200 | \$50 | \$250 | \$4,800 | | |
| 3/31/9X | Michael Murray | \$100 | None | \$100 | \$400 | | |
| Total Principal Paid (Enter also on lines 8 and 14, C-4 report) | | \$300 | | | | | |
| Total Payments (Enter as an expenditure on Schedule A) | | \$350 | | | | | |
| 3. LOAN FORGIVEN. | | | | | | | |
| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed | | |
| 3/15/9X | Kelly Adams | \$250 | None | \$150 | \$100 | | |
| 4. LOANS STILL OWED. List each loan which has previously been reported and still has a balance due | | | | | | | |
| Loan date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed | | | |
| 2/10/9X | Candidate | \$5,000 | \$200 | \$4,800 | | | |
| 1/22/9X | Michael Murray | 500 | 0 | 400 | | | |
| 3/01/9X | Kelly Adams | 250 | 150 | 100 | | | |
| 3/11/9X | K.M. Lawrence | 1,000 | 0 | 1,000 | | | |
| Subtotal | | | | \$6,300 | | | |
| How loans received during this reporting period <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> Check here if continued on attached sheet | | | | Total Loans Owed (Declare in total on line 19, C-4 report) \$6,300 | | | |

LOANS

See Instructions and examples on reverse

| | |
|----------------------------|---------------------|
| SCHEDULE TO C3 OR C4 | L (11/93) |
|----------------------------|---------------------|

Candidate or committee name _____

1. LOAN RECEIVED. (Loans are considered contributions and are subject to any applicable limit.)

| Date loaned | Lender's name and address | <table border="1" style="font-size: 8px;"> <tr><td>P</td><td>G</td></tr> <tr><td>R</td><td>E</td></tr> <tr><td>I</td><td>N</td></tr> </table> | P | G | R | E | I | N | Amount of loan | Annual interest rate | Repayment schedule | Date due |
|-------------|---------------------------|---|---|---|---|---|---|---|----------------|----------------------|--------------------|----------|
| P | G | | | | | | | | | | | |
| R | E | | | | | | | | | | | |
| I | N | | | | | | | | | | | |
| | | | | | | | | | | | | |

Also include this amount on line 1c, C3 report ➔

Name and Address of Each Loan Endorser, Co-signer

| | |
|---|---|
| P | G |
| R | E |
| I | N |

Amount Liab For

Aggregate Total

If Total Contributed is \$100 or More, Show Endorser's Occupation and Name, City, & State of Employer

Check here if continued on attached sheet.

2. LOAN PAYMENTS. (Candidates may be repaid amount loaned or \$3,000 per election, which ever is less. See instruction manual for details.)

| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed |
|-----------|---------------------------|----------------|---------------|---------------|--------------|
| | | | | | |

Total Principal Paid (Enter also on lines 5 and 14, C-4 report) ➔ _____
 Total Payments (Enter as an expenditure on Schedule A) ➔ _____

3. LOAN FORGIVEN.

| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed |
|------|---------------------------|-----------------|------------------|-----------------|--------------|
| | | | | | |

4. LOAN STILL OWED. (List each loan which has previously been reported and still has a balance due.)

| Date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed |
|--|---------------------------|-----------------|------------------------------|-------------|
| | | | | |
| Subtotal | | | | _____ |
| New loans received during this reporting period | | | | _____ |
| Total Loans Owed (Include in total on line 19, C-4 report) | | | | _____ |

Check here if continued on attached sheet.



| | | |
|----------------------------|--------------|-------|
| SCHEDULE TO C3 OR C4 | L (11/93) | LOANS |
|----------------------------|--------------|-------|

Please consult PDC instruction manuals when completing this schedule.
Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Each candidate and political committee using full reporting that receives one or more campaign loans..
- FILING DATES** When a loan is received by the campaign, complete Part 1 and file the Schedule L with the C-3 report that corresponds with the loan's deposit into the account. **Use a separate schedule for each loan received.**
- When a loan is paid or forgiven, in whole or in part, complete Part 2 and/or Part 3 and file the Schedule L with the C-4 covering the period when the payment or forgiveness occurred.
- When one or more loans remain unpaid, complete Part 4 and file the schedule with each C-4 report until all loans are repaid in full or forgiven. (The same schedule may be used to show loan payments, forgiveness information and to show which loans remain unpaid.)

LOAN RECEIVED
(Information would appear on separate Schedule L)

LOAN PAYMENTS

LOAN FORGIVEN

LOANS STILL OWED

| CANDIDATE OR COMMITTEE NAME | | SCHEDULE TO C3 OR C4 | | L (11/93) | |
|---|--------------------------------|---|------------------------------|---|--------------|
| Adrian Adams for State Representative | | | | | |
| 1. LOAN RECEIVED. (Loans are considered contributions and are subject to any applicable limit.) | | | | | |
| Date loaned | Lender's name and address | Amount of loan | Annual interest rate | Repayment schedule | Date due |
| 2/12/9X | Tyler Adams (candidate's wife) | \$500 | 12% | \$100/month | Not fixed |
| 2/12/9X | Tyler Adams | 500 | Same | Same | Same |
| | | Also include this amount on line 14, C-3 report → \$1,000 | | | |
| Name and Address of Each Loan Endorser, Co-signer | | Amount Liable For | Aggregate to all | If Total Contributed is \$100 or More, Show Endorser's Occupation and Name, City, & State of Employer | |
| Conrad Smith 8419 West View Court Anyplace, WA 98000 | | \$500 | \$500 | ABC Company, Madison, WI Sales Manager | |
| <input type="checkbox"/> Check here if continued on attached sheet. | | | | | |
| 2. LOAN PAYMENTS. (Candidates may be repaid amount loaned or \$3,000 per election, whichever is less. See instruction manual for details.) | | | | | |
| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed |
| 3/30/9X | Tyler Adams | \$100 | \$10 | \$110 | \$900 |
| 3/31/9X | Michael Murray | 100 | None | 100 | 400 |
| | | Total Principal Paid (Enter also on lines 5 and 14, C-4 report) → \$200 | | Total Payments (Enter as an expenditure on Schedule A) → \$210 | |
| 3. LOAN FORGIVEN. | | | | | |
| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed |
| 3/15/9X | Kelly Adams | \$250 | None | \$150 | \$100 |
| 4. LOAN STILL OWED. (List each loan which has previously been reported and still has a balance due.) | | | | | |
| Date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed | |
| 2/12/9X | Tyler Adams | \$1,000 | \$100 | \$ 900 | |
| 1/22/9X | Michael Murray | 500 | 100 | 400 | |
| 3/01/9X | Kelly Adams | 250 | 150 | 100 | |
| 3/11/9X | K. M. Lawrence | 1,000 | 0 | 1,000 | |
| | | | | Subtotal | \$2,400 |
| | | | | None have received during this reporting period | 0 |
| | | | | Total Loans Owed (Include in total on line 18, C-4 report) | \$2,400 |
| <input type="checkbox"/> Check here if continued on attached sheet. | | | | | |

**CASH RECEIPTS AND EXPENDITURES
STATE EXECUTIVE AND LEGISLATIVE CANDIDATES**

SCHEDULE to C4 **A-S/L**
(10/91)

Candidate or Committee Name (Do not abbreviate. Use full name)

1. CASH RECEIPTS (Contributions) which have been reported on C3. List each deposit since last C4 report was submitted.

| Date of Deposit | Amount | Date of Deposit | Amount | Date of Deposit | Amount | Total deposits |
|-----------------|--------|-----------------|--------|-----------------|--------|----------------|
| | | | | | | |

2. TOTAL CASH RECEIPTS

Enter also on line 2 of C4

CODES FOR CLASSIFYING EXPENDITURES: If one of the following codes is used to describe an expenditure, no other description is generally needed. The exceptions are: 1) if expenditures are in-kind or earmarked contributions to another candidate or committee or independent expenditures that benefit another candidate or committee, identify that candidate or committee in the Description block; and 2) when reporting payments to vendors for travel expenses, identify the traveller in the Description block.

**CODE
DEFINITIONS
ON REVERSE**

- *C* - Contributions (monetary, in-kind & transfers)
- *I* - Independent Expenditures
- *L* - Literature, Brochures, Printing
- *B* - Broadcast Advertising (Radio, TV)
- *N* - Newspaper and Periodical Advertising
- *O* - Other Advertising (yard signs, buttons, etc.)
- *P* - Postage, Mailing Permits
- *S* - Surveys and Polls
- *F* - Fundraising Event Expenses
- *T* - Travel, Accommodations, Meals
- *M* - Management/Consulting Services
- *W* - Wages, Salaries, Benefits
- *G* - General Operation and Overhead

3. EXPENDITURES

- a) Expenditures of \$50 or less, including those from petty cash, need not be itemized. Add up these expenditures by category (Own Campaign, Contribution to Others, etc.), and show the categorical subtotals in the appropriate column on the first line below.
- b) Itemize each expenditure of more than \$50 by date paid, name and address of vendor, code/description, and amount. Put the amount in the appropriate expense category column.
- c) For each payment to a candidate, campaign worker, PR firm, advertising agency or credit card company, attach a list of expenses or copies of receipts/ invoices supporting the payment.

| Date Paid | Vendor or Recipient (Name and Address) | Code | Purpose, Expense and/or Description | Own Campaign | Contribution to Others | Public Office | Non-Campaign Misc. |
|-------------------------------|---|------|--|-----------------|---------------------------|------------------|-----------------------|
| N/A | Expenses of \$50 or Less | N/A | N/A | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Totals From Attached Pages | | | | | | | |
| 4. TOTALS BY EXPENSE CATEGORY | | | | 1 | 2 | 3 | 4 |

5. TOTAL CASH EXPENDITURES (Sum of columns 1, 2, 3 & 4)

Enter also on line 11 of C4

PDC Form C4, Sch. A-S/L (Rev. 10/91)-1

CODE DEFINITIONS ON REVERSE

EXPENDITURE CODE DEFINITIONS AND USES

- "C" MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column, specify who was benefited and, in-kind, what was purchased, and put the amount in "Contribution to Others."
- "I" INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column, fully describe purpose and put the amount in "Contribution to Others."
- "L" LITERATURE.** Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- "B" BROADCAST ADVERTISING.** Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- "N" NEWSPAPER & PERIODICAL ADVERTISING.** Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- "O" OTHER ADVERTISING.** Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- "P" POSTAGE.** Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- "F" FUNDRAISING EVENTS.** Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- "S" SURVEYS AND POLLS.** Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- "T" TRAVEL, ACCOMMODATIONS, MEALS.** Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Sch. A-s/l.
- "M" MANAGEMENT AND CONSULTING SERVICES.** Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- "W" WAGES, SALARIES, BENEFITS.** Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- "G" GENERAL OPERATION AND OVERHEAD.** Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture. (Note: these are campaign-related expenses, not costs associated with holding public office.)

**IN KIND CONTRIBUTIONS, PLEDGES, ORDERS
DEBTS, OBLIGATIONS**

SCHEDULE to C4 **B-S/L**
(10/91)

Candidate or Committee Name (Do not abbreviate. Use full name)

1. IN KIND CONTRIBUTIONS RECEIVED (goods, services, discounts, etc.)

| Date Received | Contributor's Name and Address | Description of Contribution | Fair Market Value | Total given by this person during campaign or year |
|---------------|--------------------------------|--|-------------------|--|
| | | TOTAL (Enter also on lines 3 and 12 of C4) | | |

2. PLEDGES RECEIVED BUT NOT YET PAID. List each pledge of \$100.00 or more.

| Date Notified of Pledge | Name and Address of Person Making Pledge (including organizations) | Amount | Total given by this person during campaign or year |
|-------------------------|--|--|--|
| N/A | Sum of outstanding pledges previously itemized on Schedule B → | | N/A |
| | | TOTAL (Enter also on line 9 of C4) | |

3. ORDERS PLACED, DEBTS, OBLIGATIONS, ESTIMATED EXPENDITURES (Excluding loans. Report loans on Schedule L.)

- a. List each debt, obligation or estimated expenditure which is more than \$250.00.
- b. List each debt, obligation or estimated expenditure which is more than \$50.00 and has been outstanding for over 30 days.

| Expenditure Date | Vendor's/Recipient's Name and Address | Amount Owed | Code* OR | Description of Obligation |
|------------------|---------------------------------------|--|----------|---------------------------|
| | | TOTAL (Include in line 19 of C4) | | |

DC form C4B (Rev 10/91)-1

*Code Definitions on Reverse

EXPENDITURE CODE DEFINITIONS AND USES

"C" MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column, specify who was benefited and, if in-kind, what was purchased, and put the amount in "Contribution to Others."

"I" INDEPENDENT EXPENDITURES (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column, fully describe purpose and put the amount in "Contribution to Others."

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"B" BROADCAST ADVERTISING. Use "B" for expenditures associated with the production and purchase of radio and television advertising.

"N" NEWSPAPER & PERIODICAL ADVERTISING. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.

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"T" TRAVEL, ACCOMMODATIONS, MEALS. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Sch. A-s/l.

"M" MANAGEMENT AND CONSULTING SERVICES. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).

"W" WAGES, SALARIES, BENEFITS. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.

"G" GENERAL OPERATION AND OVERHEAD. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture. (None of these are campaign-related expenses, not costs associated with holding public office.)

PROPOSED



ABBREVIATED REPORT RECEIPTS AND EXPENDITURES

ABB C4 (7/92) PDC OFFICE USE POST MARK RECEIVED

Candidate or Committee Name (Do not abbreviate. Include full name)
Mailing Address
City County Zip + 4

1. PERIOD COVERED BY REPORT: From: To: Final Report: Yes No
a. Candidates: Start of campaign through the end of the month in which the election occurred.
b. Ballot Measure Committees: Start of campaign through the end of the month in which the election occurred.
c. Continuing Committees filing post-election report: January 1 through end of the month in which election occurred.
d. Continuing Committees filing annual report: Calendar year (January 1 through December 31).

2. RECEIPTS
a. Cash on hand from previous campaign or year (Include money in checking, savings and other accounts)
b. Cash contributions received this campaign or year (Include monetary contributions, loans, fund raising and cash contributions by a candidate)
c. Total cash receipts (Add lines 2a + 2b)
d. Other contributions, including in-kind (Include candidate's and committee workers' out of pocket expenditures, donated goods and services, filing fees paid by others and similar non-cash contributions)
e. Total contributions (Add lines 2c + 2d)

3. EXPENSES
a. Cash expenditures
b. Other expenditures. (Enter the amount shown on line 2d above here. Non-cash contributions are listed as both received and expended. Disregard any materials which may remain on hand.)
c. Total expenditures (Add lines 3a + 3b)

4. SURPLUS/DEFICIT
a. Cash on hand at end of reporting period (Subtract: line 3a from 2c)
b. Debts and obligations owed
c. Surplus or deficit

CANDIDATES
Please complete: Primary election General election
Won Lost Unopposed Name not on ballot

CERTIFICATION: I certify that this report is true and correct to the best of my knowledge.
Candidate's signature Date Treasurer's signature (if a political committee) Date



| | |
|---|---|
| PDC FORM ABB C4 <small>(7/92)</small> | ABBREVIATED RECEIPTS & EXPENDITURES REPORT |
|---|---|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this report. Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using Abbreviated Reporting.

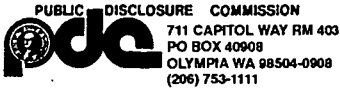
- FILING DATES**
- 1) Special election candidates and political committees supporting or opposing special election candidates or ballot issues file on the 10th of the month following the election.
 - 2) Candidates who lose in the primary and political committees supporting or opposing primary election ballot issues file on October 10.
 - 3) Candidates who are in the general election and political committees making expenditures supporting or opposing general election candidates or ballot measures file on December 10.
 - 4) Continuing political committees not taking part in elections during a year file annual reports on January 10 cover the preceding calendar year.
 - 5) A final report is filed whenever a candidate's committee or a political committee ceases operation, disposes of any surplus campaign funds and has a zero account balance. Final reports may be filed at any time and may coincide with one of the due dates listed above.

All reports are considered filed as of the postmark date or the date hand-delivered to PDC.

WHERE TO FILE Send original C-4 ABB report to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

For assistance, call or write PDC!

PROPOSED



ABBREVIATED REPORT RECEIPTS AND EXPENDITURES

ABB C4 (11/93)

PDC OFFICE USE POST RECEIVED

Candidate or Committee Name (Do not abbreviate. Include full name)

Mailing Address

City

Zip + 4

Office Sought (Candidates)

1. PERIOD COVERED BY REPORT: From: To: Final Report: Yes No

- a. Candidates: Start of campaign through the end of the month in which the election occurred.
b. Ballot Measure Committees: Start of campaign through the end of the month in which the election occurred.
c. Continuing Committees filing post-election report: January 1 through end of the month in which election occurred.
d. Continuing Committees filing annual report: Calendar year (January 1 through December 31).

2. RECEIPTS

- a. Cash on hand from previous campaign or year (Include money in checking, savings and other accounts)
b. Cash contributions received this campaign or year (Include monetary contributions, loans, fund raising and cash contributions by a candidate)
c. Total cash receipts (Add lines 2a + 2b)
d. Other contributions, including in-kind (Include candidate's and committee workers' out of pocket expenditures, donated goods and services, filing fees paid by others and similar non-cash contributions)
e. Total contributions (Add lines 2c + 2d)

3. EXPENSES

- a. Cash expenditures
b. Other expenditures. (Enter the amount shown on line 2d above here. Non-cash contributions are listed as both received and expended. Disregard any materials which may remain on hand.)
c. Total expenditures (Add lines 3a + 3b)

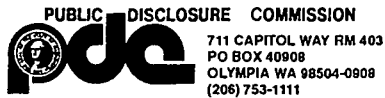
4. SURPLUS/DEFICIT

- a. Cash on hand at end of reporting period (Subtract: line 3a from 2c)
b. Debts and obligations owed
c. Surplus or deficit

Table with columns: CANDIDATES, Won, Lost, Unopposed, Name not on ballot. Rows for Primary election and General election.

CERTIFICATION: I certify that this report is true and correct to the best of my knowledge.

Candidate's Signature Date Treasurer's Signature (if a political committee) Date



Please consult PDC instruction manuals when completing this report. Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using Abbreviated Reporting.

- FILING DATES**
- 1) Special election candidates and political committees supporting or opposing special election candidates or ballot issues file on the 10th of the month following the election.
 - 2) Candidates who lose in the primary and political committees supporting or opposing primary election ballot issues file on October 10.
 - 3) Candidates who are in the general election and political committees making expenditures supporting or opposing general election candidates or ballot measures file on December 10.
 - 4) Continuing political committees not taking part in elections during a year file annual reports on January 10 cover the preceding calendar year.
 - 5) A final report is filed whenever a candidate's committee or a political committee ceases operation, disposes of any surplus campaign funds and has a zero account balance. Final reports may be filed at any time and may coincide with one of the due dates listed above.

All reports are considered filed as of the postmark date or the date hand-delivered to PDC.

WHERE TO FILE Send original C-4 ABB report to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

(Candidates for city offices, city ballot issue committees and other political committees who give to city candidates or ballot issue committees check with city clerk regarding any local filing requirement.)

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

[AMENDATORY SECTION (Amending WSR 89-20-068, filed 10/4/89)]

WAC 390-16-050 Forms for contributions and expenditures of political committees not domiciled in Washington state. The official form for the report of contributions and expenditures of political committees not domiciled in Washington state or otherwise not required to report is designated "C-5", revised (~~(1/90)~~) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.



PUBLIC DISCLOSURE COMMISSION

711 CAPITOL WAY RM 403 FJ42
PO BOX 40908
OLYMPIA WA 98504-0908
(206) 753-1111

FORM
C5
1/90

PDC OFFICE USE
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**OUT OF STATE OR FEDERAL COMMITTEE CONTRIBUTION
TO WASHINGTON CANDIDATES OR COMMITTEES**

1. Name and address of committee making contribution

2. Check appropriate box

This is the first report submitted during 19____

This shows new expenditures, contributions or information changed from reports submitted previously this calendar year.

3. Explain briefly the purpose or affiliation of the committee. (e.g., A PAC of employees of XYZ Trade Assn., or the candidates committee of US Senator John Doe, or a PAC of members of the United Worker's Union.)

| 4. Officers or responsible leaders of committee | | Title |
|---|--|-------|
| Name and address | | |
| | | |

5. Candidate contributions: List each Washington candidate for state or local office to whom you have made a contribution of more than \$50.00

| Candidate's name | Office sought | Political party | Date | Amount given |
|------------------|---------------|-----------------|------|--------------|
| | | | | |

6. Ballot measure committee contributions: List each Washington committee supporting or opposing a ballot measure to whom you have made a contribution of more than \$50.00.

| Committee name and address | Ballot number | For or against? | Date | Amount given |
|----------------------------|---------------|-----------------|------|--------------|
| | | | | |

7. Other contributions and expenditures: List each other contribution or expenditure of more than \$50.00 made to or on behalf of any Washington state or local candidate, ballot measure or political committee.

| Recipient's name and address | Purpose | Date | Amount |
|------------------------------|---------|------|--------|
| | | | |

Check here if continued on attached sheet

8. Total contributions and expenditures (Add parts 5, 6, 7)

CAUTION: Failure to report transactions within ten days will cause the funds to forfeit to Washington State.

9. Contributions received from Washington residents:

List all contributions of more than \$25.00 in aggregate to this out of state, federal or other committee during the current calendar year from Washington residents or corporations with a place of business in Washington.

| Name and address | Date | Amount |
|------------------|------|--------|
| [Redacted] | | |

Check here if continued on attached sheet

10. CERTIFICATION: I certify the information contained in this report is true and correct to the best of my knowledge.

Signature of committee official

Name

Title Date

BE SURE TO NOTIFY EACH CANDIDATE AND COMMITTEE THAT YOU HAVE FILED THIS REPORT

INSTRUCTIONS

(Statutory reference: RCW 42.17.090 (1)(K))

WHO MUST REPORT

A political committee not domiciled in the State of Washington, a federal committee or other committee not required to register under Washington law, which has made contributions to a state or local candidate political committee in Washington state.

WHEN TO REPORT

A C-5 report is due within ten days of a Washington state candidate or political committee receiving a contribution of more than \$50 from an out-of-state or federal PAC. After filing an initial C-5 report, subsequent reports during the same calendar year may be filed by letter updating or amending the information previously reported. These follow-up reports are also due within ten days of contributions's receipt.

SEND REPORT TO

Public Disclosure Commission
711 Capitol Way, Room 403,
PO Box 40908
Olympia, WA 98511-0908

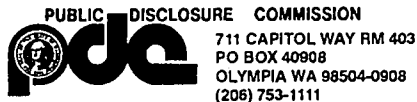
VIOLATIONS AND PENALTIES

It is a violation of law for any person to make, or for any candidate or political committee to accept from any one person, contributions in the aggregate exceeding \$50,000 for any campaign for state-wide office or \$5,000 for any other campaign within 21 days of a general election.

Failure to report contributions and file the information required by this report within 10 days after the Washington candidate or committee receives the funds will cause the funds to be forfeited to the state.

FOR ADDITIONAL INFORMATION

Contact the Public Disclosure Commission at (206) 753-1111



| | |
|-------------------------------|---|
| FORM C5 (11/93) | PDC OFFICE USE |
| | P M A R K R E C E I V E D |

**OUT OF STATE OR FEDERAL COMMITTEE CONTRIBUTION
TO WASHINGTON CANDIDATES OR COMMITTEES**

| | |
|--|---|
| 1. Name and address of committee making contribution | 2. Check appropriate box <input type="checkbox"/> This is the first report submitted during 19____ <input type="checkbox"/> This shows new expenditures, contributions or information changed from reports submitted previously this calendar year. |
| 3. Explain briefly the purpose or affiliation of the committee. (e.g., A PAC of employees of XYZ Trade Assn., or the election committee of US Senator John Doe, or a PAC of members of the United Worker's Union.) | |

| 4. Officers or responsible leaders of committee | Title |
|---|-------|
| Name and address | |

5. Candidate contributions: List each Washington candidate for state or local office to whom you have made a contribution of more than \$50.00.

| Candidate's name | Office sought | Political party | Date | Amount given |
|------------------|---------------|-----------------|------|--------------|
| | | | | |

6. Ballot measure committee contributions: List each Washington committee supporting or opposing a ballot measure to whom you have made a contribution of more than \$50.00.

| Committee name and address | Ballot number | For or against? | Date | Amount given |
|----------------------------|---------------|-----------------|------|--------------|
| | | | | |

7. Other contributions and expenditures: List each other contribution or expenditure of more than \$50.00 made to or on behalf of any Washington state or local candidate, ballot measure or political committee.

| Recipient's name and address | Purpose | Date | Amount given |
|------------------------------|---------|------|--------------|
| | | | |

Check here if continued on attached sheet

8. Total contributions and expenditures (Add parts 5, 6, 7)

CAUTION: Failure to report transactions within ten days will cause the funds to forfeit to Washington State.

9. Contributions received from Washington residents:

List all contributions of more than \$25.00 in aggregate to this out of state, federal or other committee during the current calendar year from Washington residents or corporations with a place of business in Washington.

| Name and address | Date | Amount |
|------------------|------|--------|
| | | |

Check here if continued on attached sheet

10. **Eligibility to Give to State Office Candidates:** During the six months prior to making a contribution to a legislative or statewide executive candidate, your committee must have received contributions of \$10 or more from at least ten persons registered to vote in Washington State.

A check here indicates your awareness of and pledge to comply with this provision. Absence of a check mark means your committee does not qualify to give to legislative and statewide executive office candidates.

11. **Certification:** I certify the information contained in this report is true, complete and correct to the best of my knowledge.

Signature of Committee Official

Name - Typed or Printed

Title

Daytime Telephone No.: () _____

(Be sure to notify each contribution recipient that you have filed this report, in order that they are aware they may spend the contribution given to them.)

INSTRUCTIONS

(Statutory reference: RCW 42.17.090 (1)(K))

WHO MUST REPORT

A political committee not domiciled in the State of Washington, a federal committee or other committee not required to register under Washington law, which has made contributions to a state or local candidate or political committee in Washington state.

WHEN TO REPORT

A C-5 report is due within ten days of a Washington state candidate or political committee receiving a contribution of more than \$50 from an out-of-state or federal PAC. After filing an initial C-5 report, subsequent reports during the same calendar year may be filed by letter updating or amending the information previously reported. These follow-up reports are also due within ten days of the contribution's receipt.

SEND REPORT TO

Public Disclosure Commission
711 Capitol Way, Room 403
PO Box 40908
Olympia, WA 98504-0908

VIOLATIONS AND PENALTIES

- Candidates for legislative office have a contribution limit of \$500 per election. Candidates for statewide executive office have a limit of \$1,000 per election. Each primary and general is a separate election.
- It is a violation of law for any person to make, or for any political committee or any local or judicial candidate to accept from any one person, contributions in the aggregate exceeding \$5,000 within 21 days of a general election
- Failure to report contributions and file the information required by this report within 10 days after the Washington candidate or committee receives the funds will cause the funds to be returned or forfeited to the state.

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

WSR 94-01-042
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES

(Public Assistance)

[Filed December 6, 1993, 4:42 p.m.]

Original Notice.

Title of Rule: WAC 388-24-111 Good cause not to cooperate with support enforcement.

Purpose: Amended to bring into compliance with 45 CFR 232 ruling good cause claims for noncooperation with support enforcement. Clarifies when a client claim of good cause for noncooperation with OSE can be approved. If client's good cause claim is based on threat of physical harm and the client cannot provide any evidence to prove the claim is true, the social worker must investigate the claim. If the claim appears credible, the social worker can approve the claim without any evidence.

Statutory Authority for Adoption: RCW 74.04.050.

Statute Being Implemented: 45 CFR 232.

Summary: For all other types of good cause claims, the client must provide at least some evidence to support the good cause claim before the claim can be approved. Rule revision gives a more complete definition of the term "emotional harm" as used in this amended rule.

Reasons Supporting Proposal: Brings rule into compliance with federal regulations ruling good cause claims for noncooperation with support enforcement.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Sandy James, Division of Income Assistance, 438-8313.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is necessary because of federal law, 45 CFR 232.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 6, 1993

Dewey Brock, Chief

Office of Vendor Services

Administrative Services Division

AMENDATORY SECTION (Amending Order 3046, filed 7/31/90, effective 8/31/90)

WAC 388-24-111 Good cause not to cooperate with support enforcement. (1) The department shall waive the requirement for client cooperation in WAC 388-24-109 if ~~((the client claims and the department determine cooperation would not be in the best interest of the eligible child.))~~:

(a) A client claims good cause for noncooperation due to one of the circumstances listed in subsection (6) of this section; and

(b) The department determines cooperation would not be in the best interest of the child for whom support is sought.

(2) The department shall inform a client of:

(a) How establishing paternity ((and)), collecting support, and collecting third-party medical coverage may benefit the child; and

(b) ~~((Their))~~ The client's right to claim good cause not to cooperate.

(3) ~~((The department shall require the client who claims good cause to provide:~~

~~(a) Corroborative evidence supporting the good cause circumstances; or~~

~~(b) Enough information, such as the absent parent's name and address, to permit the department to investigate the existence of the claimed circumstances specified in subsection (6) of this section))~~ The burden to substantiate the good cause claim shall be upon the client. The department shall deny a client's good cause claim when the client fails to take the following required actions:

(a) Specify the circumstances which may constitute a valid basis for a good cause claim;

(b) Provide at least some corroborative evidence supporting the existence of these circumstances within twenty days from the date the good cause claim was made, except the department shall:

(i) Give the client a reasonable additional period of time, when the department determines the client will have exceptional difficulty in obtaining corroborative evidence;

(ii) Waive the requirement to provide corroborative evidence if the client meets the conditions in subsection (10) of this section; and

(c) If requested by the department, provide enough information to permit the department to investigate the circumstances involved in the client's good cause claim.

(4) When a client claims to have good cause, the department ~~((IV-A staff will))~~ shall determine if:

(a) The client claim is based on an allowable circumstance under subsection (6) of this section; and

(b) The evidence supplied by the client corroborates that cooperation would be against the best interest of the child; or

(c) Whether an investigation of the claimed circumstances ((confirms)) can or should be conducted to confirm that cooperation would be against the best interest of the child.

(5) The department shall:

(a) Determine good cause, as quickly as possible, ~~((according to time limits in WAC 388-38-110))~~ within 30 days from the day the good cause claim is made. The department may have additional time when the information required to verify the claim cannot be obtained within 30

days or when the client needs more than 20 days to provide corroborative evidence;

(b) Notify the client, in writing, of the department findings and basis for determination; and

(c) Document the determination, department findings, and the basis for the determination in the ~~((financial and service records))~~ client's record.

(6) ~~The department ((IV-A staff)) shall only determine cooperation is against the best interest of the child for whom support is sought if ((the claim is based on))~~ one of the following circumstances exists:

(a) The client's cooperation can reasonably be anticipated to result in serious physical or emotional harm which is detrimental to the:

(i) Child; or

(ii) Caretaker relative to the extent the impairment reduces ~~((their))~~ the caretaker relative's capacity to adequately care for the child ((adequately)); or

(b) Establishing paternity or securing support would be detrimental to the child for whom support is sought and:

(i) The child was conceived as a result of incest or forcible rape;

(ii) Legal adoption proceedings of the child are pending before a superior court; or

(iii) The parent is working with a public or licensed child-placement agency ~~((for up to three months,))~~ to decide whether to keep or relinquish the child for adoption and the discussions have not gone on for more than three months.

(7) ~~((The department shall limit evidence used to determine good cause without further investigation to the following))~~ The client may corroborate a good cause claim with the following types of evidence:

(a) Birth, medical, or law enforcement records which show the child was conceived as the result of incest or forcible rape;

(b) Court or other records which show proceedings for adoption are pending before a superior court;

(c) Court, medical, criminal, child protective services, social services, psychological, or law enforcement records ~~((upon))~~ which ~~((the department determines))~~ indicate that the absent parent might inflict emotional or physical harm on the ((child or)) caretaker relative or the child for whom support is sought;

(d) Medical records or written statements from a mental health professional, with a diagnosis or prognosis ~~((which shows cooperation by))~~ concerning the emotional health of the caretaker relative ((would not be in the best interest of the)) or the child for whom support is sought;

(e) Child-placement agency verification, including the dates of counseling, regarding the issue of whether to keep or relinquish the child for adoption; or

(f) Sworn statements from ~~((knowledgeable))~~ persons ~~((?))~~ other than the client, ~~((regarding))~~ who have knowledge of the circumstances ((upon)) which provide the ((claim is based)) basis of the good cause claim.

(8) ~~((If))~~ When the client requests, the department shall assist the client in obtaining any required evidence which the client cannot reasonably be expected to obtain without assistance.

(9) ~~((If the client cannot obtain required evidence yet continues to claim good cause, the client shall provide information to allow the department to investigate the~~

~~circumstances of the claim. The department may base good cause on any verifying information acceptable to the department; however, during the investigation the department))~~ The department shall only approve good cause for noncooperation, based on the evidence supplied by the client, after such evidence has been examined and found to actually verify the client's good cause claim.

(10) When a good cause claim is based on the anticipation of physical harm to the child or to the caretaker relative and corroborative evidence of the claim is not provided by the client, the department shall:

(a) Investigate the claim when the department believes:

(i) The claim is credible without evidence; and

(ii) No evidence is available.

(b) Find good cause if the client's statement and the conducted investigation satisfies the department that the client has good cause for refusing to cooperate; and

(c) Subject good cause approved under these circumstances to supervisory approval.

(11) When the client provides evidence, but the client's claim and the evidence the client provides do not give the department sufficient basis for making a good cause determination, the department may:

(a) Request additional evidence from the client. The department shall notify the client of the specific type of document which is needed; or

(b) Conduct an investigation, if necessary.

(12) When the department conducts an investigation of a client's good cause claim, the department shall:

(a) ((Shall not)) Contact the absent parent ((unless)) if such contact is necessary to establish the good cause claim; and

(b) Before such contact, ((shall)) notify ((and allow)) the client and give the client the opportunity to:

(i) Present additional evidence or information that makes contact unnecessary;

(ii) ((Withdraw)) Have the application for assistance withdrawn or assistance terminated; or

(iii) Have the good cause claim denied ~~((? or~~

~~((iv) Request a fair hearing)).~~

~~((+0) Where))~~

(c) Allow the client to request a fair hearing if the client chooses to have the good cause claim denied.

(13) The department ((bases)) shall not approve good cause based on a claim of emotional harm ~~((?))~~ until the department ((shall consider and document the following factors)):

(a) Considers and documents whether the client's cooperation is reasonably anticipated to result in emotional harm that substantially affects the functioning of a child or the caretaker relative; and

(b) Obtains the following information:

(i) Past and present emotional state of the ((individual)) person subject to emotional harm;

~~((b))~~ (ii) Degree and probable duration of the emotional upset;

~~((e))~~ (iii) Degree of cooperation required; and

~~((d))~~ (iv) Extent of the child's involvement in the paternity establishment or support enforcement activity.

~~((+1))~~ (14) The department ((IV-A staff)) shall ((also)) determine if the office of support enforcement ~~((could))~~ can proceed to collect support without ((risk, detrimental to))

involving the child or caretaker relative (~~where the collection activities would not involve their participation. If the title IV-D staff can proceed where such activity will not cause risk of harm, IV-A staff~~) and without posing a risk or a detriment to the child or caretaker relative. If so, the department shall:

- (a) Document this decision in the case file; (~~and~~)
- (b) Notify the client of this decision so the client may withdraw the application; and

(c) If the application is not withdrawn, provide available information about the absent parent to (~~IV-D~~) the office of support enforcement staff (~~if the application is not withdrawn~~).

~~((12))~~ (15) Before a final determination of good cause, (~~IV-A staff~~) the department shall:

(a) Give (~~IV-D~~) the office of support enforcement staff the opportunity to review and comment on the finding and basis for the proposed determination;

(b) Consider (~~IV-D~~) the office of support enforcement staff comments or recommendations; and

(c) Provide (~~IV-D~~) the office of support enforcement staff the opportunity to participate in any fair hearing based on a good cause claim.

~~((13))~~ (16) The department shall not deny or delay assistance for a pending good cause determination if the client has:

(a) A valid claim basis as stated in subsection (6) of this section; and

(b) Has provided corroborative evidence and information.

~~((14) If IV-A staff determine)~~ (17) If the department determines that any collection activity (~~may~~) is reasonably anticipated to place the child or caretaker relative at risk, the (~~department~~) office of support enforcement staff shall not attempt to establish paternity or secure support.

~~((15) IV-A staff)~~ (18) The department shall review, at least every six months, all active good cause cases. If good cause no longer exists, the department shall require the client to cooperate.

~~((16))~~ (19) When good cause does not exist:

(a) The department shall notify the client and afford the client an opportunity to cooperate, withdraw the application, or request a fair hearing; and

(b) (~~Continued refusal~~) If the client continues to refuse to cooperate, the client shall (~~result in the loss of~~) lose AFDC eligibility (~~for the caretaker relative~~) as specified (~~in~~) under WAC 388-24-108(2).

~~((17))~~ (20) The department shall maintain records of good cause claims.

~~((18) IV-A staff)~~ (21) The department shall promptly report to (~~IV-D~~) the office of support enforcement staff those cases in which:

(a) A client claims good cause (~~has been claimed~~) and a determination is pending;

(b) A determination of good cause exists;

(c) A determination that good cause does not exist; and

(d) A client requests a fair hearing (~~has been requested~~) to contest a good cause determination.

**WSR 94-01-046
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES**

(Public Assistance)

[Filed December 7, 1993, 2:51 p.m.]

Continuance of WSR 93-23-025.

Title of Rule: WAC 388-91-007 Drugs—Drug discount agreement, 388-91-010 Drugs—Not requiring prior authorization, and 388-91-020 Drugs—Requiring authorization.

Purpose: Sets up a supplemental pharmaceutical manufacturers' state discount in order for their drug to be prescribed without special authorization by medical assistance administration. Deletes the requirement that the department not require prior authorization for new drugs for a six-month period.

Date of Intended Adoption: December 14, 1993.

December 7, 1993

Dewey Brock, Chief

Office of Vendor Services

Administrative Services Division

**WSR 94-01-047
PROPOSED RULES
DEPARTMENT OF LICENSING**

[Filed December 7, 1993, 4:35 p.m.]

Original Notice.

Title of Rule: Amending WAC 308-13-150 Landscape architect fees and 308-13-160 Renewal of licenses.

Purpose: To increase the examination fees only, to meet the increased cost of examination and to change license renewal dates to coincide with the date of birth.

Statutory Authority for Adoption: RCW 18.96.080.

Statute Being Implemented: WAC 308-13-150 is RCW 43.24.086; and WAC 308-13-160 is RCW 18.96.110.

Summary: The fee change will bring examination fees in line with examination costs. The change in renewal date will spread the revenue and workload throughout the year.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: James D. Hanson, 2424 Bristol Court, Olympia, (206) 753-6967, FAX (206) 586-0998, TDD 753-1966.

Name of Proponent: Department of Licensing, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The amendment of WAC 308-13-150 Landscape architect fees, will increase examination fees only, to meet the increased purchase cost of the tests. The amendment of WAC 308-13-160 Renewal of licenses, changes license renewal dates from June 30 to individual date of birth to spread revenue and workload over the entire calendar year. No change in per-month cost of licenses.

Proposal Changes the Following Existing Rules: The amendment of WAC 308-13-150 increases the fees for examinations, only. The amendment of WAC 308-13-160 revises the license renewal date from June 30 to the date of

birth of the license holder. No change in per-month cost of license.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: First Floor Conference Room, 405 Black Lake Boulevard, Olympia, WA, on January 27, 1994, at 10:00 a.m.

Submit Written Comments to: James D. Hanson, Landscape Architect Board, P.O. Box 9045, Olympia, WA 98507-9045, by January 19, 1994.

Date of Intended Adoption: January 27, 1994.

December 2, 1993

James D. Hanson

Program Administrator

AMENDATORY SECTION (Amending WSR 91-23-021, filed 11/8/91, effective 12/9/91)

WAC 308-13-150 Landscape architect fees. The following fees shall be charged by the professional licensing division of the department of licensing:

| Title of Fee | Fee |
|---|-------------------|
| Application fee | \$150.00 |
| Examination ((or reexamination)) (entire) fee | ((400.00)) 490.00 |
| Reexamination administration fee | 50.00 |

Examination Sections:

| | |
|--|-----------------|
| Section 1: Legal and administrative aspects of practice | ((15.00)) 25.00 |
| Section 2: Programming and environmental analysis | ((20.00)) 35.00 |
| Section 3: Conceptualization and communication | ((65.00)) 85.00 |
| Section 4: Design synthesis | ((65.00)) 80.00 |
| Section 5: Integration of technical and design requirements | ((80.00)) 95.00 |
| Section 6: Grading and drainage | ((75.00)) 85.00 |
| Section 7: Implementation of design through construction process | ((40.00)) 45.00 |
| Section 8: Plant identification | 40.00 |
| Exam proctor | 100.00 |
| Renewal (3 years) | 450.00 |
| Late renewal penalty | 150.00 |
| Duplicate license | 25.00 |
| Initial registration (3 years) | 450.00 |
| Reciprocity application fee | 200.00 |
| Certification | 45.00 |
| Proctoring program | 125.00 |
| Replacement certificate | 20.00 |

AMENDATORY SECTION (Amending Order PM 696, filed 12/9/87)

WAC 308-13-160 Renewal of licenses. ((1) Effective with the renewal period beginning June 30, 1987, the annual renewal date for landscape architects will be changed to a three year renewal period. Conversion to this renewal system will be accomplished as follows:

(a) Current licensees, whose licenses expire June 30, 1987, and whose birthdates fall in the months of July, August, September or October, will be required to pay a fee

equal to one years' renewal fee, or one third of the current three year renewal fee, in order to extend their licenses to expire on June 30, 1988. Subsequent renewals will be for a three year period.

(b) Current licensees, whose licenses expire June 30, 1987, and whose birthdates fall in the months of November, December, January or February, will be required to pay a fee equal to two years' renewal fees, or two thirds of the current three year renewal fee, in order to extend their licenses to expire on June 30, 1989. Subsequent renewals will be for a three year period.

(c) Current licensees, whose licenses expire June 30, 1987, and whose birthdates fall in the months of March, April, May or June, will be required to pay a fee equal to the current three year renewal fee in order to extend their licenses to expire on June 30, 1990. Subsequent renewals will be for a three year period.

(2) On or before June 30, 1987, all new or initial landscape architects licenses will be issued for a three year period with subsequent renewals for a three year period.

(3) Following completion of the conversion to a three year renewal period, licensees will renew every three years on or before June 30.) (1) The renewal for landscape architects licenses will be for a three-year period with the expiration date that of the licensee's birth date.

(a) Effective with the renewal period beginning June 30, 1994, renewals will be prorated at the current renewal rate with the conversion accomplished as follows:

Conversion Renewal Schedule

| <u>Birth Date</u> | <u>Span of Renewal Time</u> | <u>Renewal Fee</u> |
|-------------------|-----------------------------|--------------------|
| January | 31 Months | \$387.50 |
| February | 32 Months | \$400.00 |
| March | 33 Months | \$412.50 |
| April | 34 Months | \$425.00 |
| May | 35 Months | \$437.50 |
| June | 36 Months | \$450.00 |
| July | 37 Months | \$462.50 |
| August | 38 Months | \$475.00 |
| September | 39 Months | \$487.50 |
| October | 40 Months | \$500.00 |
| November | 41 Months | \$512.50 |
| December | 42 Months | \$525.00 |

(b) Current licensees whose licenses expire June 30, 1994, will receive a license with an expiration date of the licensee's birth date in 1997 prorated at the current renewal rate in accordance with (a) of this subsection.

(c) Current licensees whose licenses expire June 30, 1995, will receive a license with an expiration date of the licensee's birth date in 1998 prorated at the current renewal rate in accordance with (a) of this subsection.

(d) Current licensees whose licenses expire June 30, 1996, will receive a license with an expiration date of the licensee's birth date in 1999 prorated at the current renewal rate in accordance with (a) of this subsection.

(2) All initial and reinstated landscape architect licenses will be issued for a three-year period with an expiration date of the licensee's birth date.

**WSR 94-01-048
PROPOSED RULES
DEPARTMENT OF PERSONNEL**

[Filed December 7, 1993, 4:59 p.m.]

Continuance of WSR 93-22-113.

Title of Rule: New WAC 356-56-001, 356-56-002, 356-56-010, 356-56-015, 356-56-020, 356-56-030, 356-56-035, 356-56-100, 356-56-105, 356-56-110, 356-56-115, 356-56-120, 356-56-125, 356-56-200, 356-56-205, 356-56-210, 356-56-215, 356-56-220, 356-56-230, 356-56-240, 356-56-250, 356-56-255, 356-56-275, 356-56-300, 356-56-400, 356-56-410, 356-56-420, 356-56-440, 356-56-500, 356-56-550, 356-56-600, 356-56-610, 356-56-630, 356-56-650, and 356-56-660.

Statutory Authority for Adoption: Chapter 41.06 RCW.
Statute Being Implemented: RCW 41.06.070.

Rule is not necessitated by federal law, federal or state court decision.

Hearing Location: Department of Personnel, 2nd Floor, Board Room, 521 Capitol Way South, Olympia, WA, on December 10, 1993, at 10:00 a.m.

Submit Written Comments to: Sharon Whitehead, Department of Personnel, P.O. Box 47500, Olympia, WA 98504-7500, by December 8, 1993.

Date of Intended Adoption: December 10, 1993.
December 7, 1993
Dennis Karras
Director

**WSR 94-01-049
PROPOSED RULES
BIG BEND
COMMUNITY COLLEGE**

[Filed December 8, 1993, 10:34 a.m.]

Original Notice.

Title of Rule: Family Educational Rights and Privacy Act.

Purpose: To amend rules and procedures of the college Family Educational Rights and Privacy Act.

Statutory Authority for Adoption: RCW 28B.50.40 [28B.50.140].

Summary: Amend policy.

Reasons Supporting Proposal: Attorney general's advice.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Candis Lacher, Moses Lake, Washington, SCAN 664-6228.

Name of Proponent: Big Bend Community College, governmental.

Rule is Necessary Because of Federal Law: [No information supplied by agency.]

Explanation of Rule, its Purpose, and Anticipated Effects: To provide rules covering the privacy of Big Bend Community College students. The effect will be to clarify the existing WAC and bring it in line with current interpretations of the law.

Proposal Changes the Following Existing Rules: At the advice of the Attorney General, changes were made to clarify the rules and reflect changes to the original Family Rights and Privacy Act of 1974.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Big Bend Community College, Building 1400, 7662 Chanute Street, Moses Lake, WA 98837, on February 28, 1994, at 7:00 p.m.

Submit Written Comments to: Big Bend Community College, Building 1400, 7662 Chanute Street, Moses Lake, WA 98837, by February 28, 1994.

Date of Intended Adoption: February 28, 1994.
December 3, 1993
Robert O. Sorenson
Vice-President
Administrative Services

AMENDATORY SECTION (Amending WSR 90-02-019, filed 12/26/89, effective 1/26/90)

WAC 132R-190-010 Purpose. The purpose of this chapter is to ~~((comply with the requirements of Public Law 93-380, § 513, of 1974, also annotated as 20 U.S.C.A. 1232, which law represents amendments to the General Education Provisions Act. As indicated in the aforesaid law, its purpose is to assure the students attending institutions of higher education such as Big Bend Community College shall have a right to inspect certain records and files intended for school use or made available to parties outside the college))~~ implement 20 U.S.C. Sec. 1232g, the Family Educational Rights and Privacy Act of 1974, by establishing rules and procedures to ensure that information contained in student records is accurate and is handled in a responsible manner by the college and its employees. Further information on policies and procedures relative to student records is available in the ~~((“Student Rights and Responsibilities” handbook section 300 Student Records and section 509 Maintenance of Records, as adopted by the Big Bend Community College board of trustees-))~~ student records section of the “Student Handbook.”

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-020 Definitions. The following definitions shall apply in interpreting these regulations:

(1) ~~((“His” when used throughout these regulations shall accomplish reference to both male and female sexes-))~~ “Directory information” means information contained in a student’s education record which is general in nature and does not constitute an invasion of privacy if disclosed. The college has designated directory information in WAC 132R-190-035.

(2) “Education records” means those records, files, documents and other materials which contain information directly related to a student and are maintained by the college~~((—The definition of “education records,” however, does not include any materials used by any college instructor in the course of assessing a student’s academic performance, including but not limited to academic grades conferred, essays, tests, written evaluations given during the course of directed studies, and the like, nor materials maintained by the college’s counseling center and the college’s health services center, or by any other psychologist paraprofessional acting in his or her professional or paraprofessional capacity~~

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~~for the benefit of the college, nor does it include campus security records.~~

~~(3) "Disciplinary records" shall be kept separate and apart from academic records, and transcripts of a student's academic record shall contain no notation of any disciplinary action. Special precautions shall be exercised to insure that information from disciplinary or counseling files is not revealed to unauthorized persons. Provisions shall be made for periodic review and routine destruction of inactive disciplinary records by offices maintaining such records.~~

~~(4) "Student" is defined as a person who is currently enrolled in a regularly scheduled class conducted at the college. Regularly scheduled classes shall include those classes occurring during fall, winter, spring and summer quarters and those classes in which residence credits are conferred regardless of the location. A person is a student for purposes of these regulations even though he is not currently enrolled in summer quarter but was regularly enrolled during the previous spring quarter), except:~~

~~(a) A personal record kept by educational, supervisor and administrative personnel which belongs solely to the maker of the records and which has never been disclosed or made available to any other person except the maker's temporary substitute.~~

~~(b) An employment record used only in relation to an individual's employment.~~

~~(c) Records made and maintained by a Big Bend Community College counselor acting in his or her professional capacity which are used only in connection with the treatment of the student are not available to anyone except that the records may be personally reviewed by a physician or other appropriate professional of the student's choice.~~

~~(d) Alumni records which contain information about a student after he or she is no longer in attendance at the college and which do not relate to the person as a student.~~

~~(3) "Student" means any individual who is or has been in attendance at Big Bend Community College and on whom educational records are maintained.~~

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-030 Right of inspection. Any student shall have a right, subject to the procedural requirements outlined in WAC 132R-190-070 through 132R-190-090 of these regulations, to inspect any and all education records directly related to him or her that is intended for school use or that is available for parties outside the school ~~((or school system. In the case of any education records relating to a student which also include information regarding another student, the responsible college officials shall delete any personally identifiable information relating to the identity of such other student)).~~ Education records will be made available to the student within fifteen working days after receipt of the request to inspect the records. Copies may be requested and shall be provided at a fee not to exceed the actual cost to the college of providing the copies.

The college reserves the right to refuse to permit a student to inspect and review the following education records:

(1) The financial statement of the student's parents.

(2) Statements and letters of recommendation prepared by college officials or submitted with the student's application for admission which were placed in the student's records before January 1, 1975, or for which the student has waived his or her right of access in writing. Except that if these statements and letters have been used for any purpose other than that for which they were originally prepared, the student may inspect and review them. When a record contains personally identifiable information about more than one student, a student may inspect only that information which relates to him or her.

(3) Records connected with an application to attend the college if that application was denied.

(4) Those records which are excluded from the definition of "education records" in WAC 132R-190-020(2).

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-035 Availability of directory information. ~~((Except as hereinafter provided, the following information contained in a student's education records shall be available to members of the public:))~~ The following personally identifiable information contained in a student's education record shall be deemed "directory information" and unless restricted by the student may be disclosed without a student's prior written consent: Student's name, address, telephone listing, date of birth, participation in officially recognized activities and sports, weight and height of members of athletic teams, ((dates of athletic teams,)) dates of attendance ((at the college)), honor roll, degrees and awards received, and the most recent previous educational agency or institution attended by the student. ((Such information shall be deemed "directory information." The college will give public notice to students of the matters contained in the above designated "directory information" that is available to members of the public at the time the student registers for enrollment in the academic quarter. On the day of such registration each student shall indicate on the college registration form whether he will not consent to the college's release of such directory information to others without his consent.)) The college will give public notice to students annually of the matters contained in the above-designated "directory information." Each student will have ten days from the day of registration to decide if he or she wishes to have directory information released without written consent.

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-040 Access permitted to college and certain other officials without consent. (1) The following persons, individuals, agencies, or organizations shall be entitled to access to official education records ~~((, files, and data))~~ of any student ~~((;))~~ subject to the limitations outlined in subsection (2) of this section, ~~((WAC 132R-190-040;))~~ without prior written consent of the student:

(a) ((Other school officials, including instructors within the college who have a legitimate educational interest;)) College officials, including administrators, faculty, instructors and staff who have a legitimate educational interest within the performance of their responsibilities to the college;

(b) Officials of other colleges, schools, or school systems, upon the condition that the student is notified of the transfer and receives a copy of the record if he or she desires it and has the opportunity to challenge the content of the record, per the procedures outlined in WAC ((132R-190-090)) 132R-190-100;

(c) ~~Authorized representatives of the ((Controller)) Comptroller General of the United States, the Secretary ((of Health, Education and Welfare, and administrative head of an education agency as defined in § 409 of Public Law 93-380, or state of Washington educational authorities)), or state and local educational authorities. State and local officials, organizations conducting studies for educational agencies or institutions provided, that except when collection of personally identifiable data is specifically authorized by federal law, any data collected by ((the controller general, the secretary, administrative head of a United States education agency or state educational authorities)) these representatives with respect to individual students shall not include information ((including social security numbers)) which permit the personal identification of such students((-));~~

(d) ~~((Authorized representatives of the Office of Education at the U.S. Department of Health, Education and Welfare, the Law Enforcement Assistance Administration of the U.S. Department of Justice, the U.S. Veterans Administration, the Bureau of Indian Affairs, the Washington state department of social and health services;)) Lending institutions receiving applications from students or granting to students financial aid, and individual organizations or institutions that provide scholarships to any applicant student when such organizations or individuals make requests for students' education records in connection with a student's application for, or receipt of, financial aid;~~

(e) Accrediting organizations to carry out their accrediting functions;

(f) Parents of a dependent student, as defined in section 152 of the Internal Revenue Code of 1954;

(g) Any person or entity authorized by judicial order or lawfully issued subpoena to receive such records or information, upon condition that the student is notified of all such orders or subpoenas in advance of compliance therewith by the college;

(h) Appropriate parties in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of the student or other persons.

(2) ~~The college shall maintain a record, kept with the education records of each student, ((which will indicate all the agencies or organizations referenced in subparagraphs (1)(b) and (1)(e) of this section)) indicating all agencies or organizations which have requested or obtained access to the student's education records. The ((college employee who is the custodian charged with the maintenance of such student education records shall further)) custodian of the records shall indicate specifically the legitimate interest each such agency or organization has in obtaining this information. The record may be reviewed by the student.~~

~~((3) If any of the agencies or organizations described in subparagraphs (1)(b) or (1)(e) of this section, request access to the education records of ten or more students, they may do so on a form provided by the college that indicates the request is being made on a blanket basis. Such form shall also require the agency to identify the legitimate~~

~~interest the agency has regarding student's education records. The college employee who is the custodian of each student education record requested by an agency or organization referenced in subparagraphs (1)(b) and (1)(e) of this section shall then enter in such education record notice of such agency's or organization's request and the place where the request may be found.))~~

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-050 Distribution of information to others. ~~The college shall not furnish ((in any form)) any personally identifiable information contained in education records directly related to a student to any person, agency, or organization other than those designated in WAC 132R-190-040, unless ((it first obtains)) a written consent from the student((, which written consent also specifically identifies)) is obtained. The written consent should specifically identify the records to be released, the reason((s)) for ((such)) the release((;)) and to whom ((such personally identifiable information is)) the records are to be released. ((In the case any such personally identifiable information contained in a student's education records is to be furnished in compliance with a judicial order or pursuant to a lawfully issued subpoena, the college shall notify the student in advance of compliance therewith.))~~

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-060 Notice of rights given under Family Educational Rights and Privacy Act ((of 1974)). ~~((In accordance with the requirements of the aforesaid federal statute, the college will make its best efforts to notify all students of their rights under this act. Such notification shall be done through the Washington Administrative Code procedures provided for by the Higher Education Administrative Procedures Act, and such other publications)) The college shall annually notify students currently in attendance of their rights under this chapter and the Family Educational Rights and Privacy Act. This notification shall be provided through the college catalog and student handbook and may be included in such other publications and media ((that)) as the college deems appropriate.~~

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-070 Requests for access to student records. ~~((1) No personally identifiable information relating to a student's education records will be furnished to any person whatsoever unless such person makes a written request to do so and provides to the custodian of such records information sufficient to identify the requesting party as a person who has a right to access to such records. By way of example and not limitation, a requesting party who identifies himself as a student to whom such record relates must provide a driver's license sufficient to establish the identity of such student. In the case of any persons in the category of those individuals, persons, agencies, or organizations identified in WAC 132R-190-040 no personally identifiable information contained in any student's education~~

record will be disclosed without providing information of the same type and nature as that required of a student plus other information as the custodian of the record deems sufficient to ascertain the official capacity of such requesting party.) Personally identifiable information regarding a student will only be furnished to persons making a written request and providing to the custodian of the records information sufficient to identify the requesting party as a person who has a right to access to such records.

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-080 Determination regarding records. The college reserves the right to determine that a record regarding a student is not an education record or material defined in WAC 132R-190-020 (~~or that the provision of~~). A determination that personally identifiable information ((relating to a student)) was properly given to an authorized agency per WAC 132R-190-040 will be made by the college. Such written determinations ((shall)) may be made ((in writing and may be accomplished)) in consultation with any of the records officers of the college as designated in chapter 132R-175 WAC.

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

~~**WAC 132R-190-090 ((Hearing procedure)) Challenges—To content of records—To release of records—Or to denial of access to records.** ((1) Any person objecting to a denial of a request for any college record relating to a student, or any student who contests whether the transfer of any college record relating to him is permitted under these regulations, may petition for prompt review of such denial or written objection to transfer. Such written request shall:~~

~~(a) Be served upon the public records officer provided for in chapter 132R-175 WAC;~~
~~(b) Demand prompt review; and~~
~~(c) In the case of objection to transfer, specifically reference the party to whom he does not want the record transferred and contain a written statement by the record custodian denying the person's request. Upon receipt of a proper written objection to transfer of a student record, the college public records officer shall cause such records to not be transferred pending outcome of the hearing proceeding provided for in these regulations.~~

~~(2) Within ten days after receipt of the written request by a person petitioning for prompt review of a decision by a custodian of student records, the president of the college or any of his designees shall consider such petition.~~

~~(3) The president or his designee may at the end of the ten day period either meet the objecting party's objection and advise him of the same in writing, or in the alternative, set the matter up for a hearing before a hearing officer designated by the president or the president's designee. Such hearing shall be conducted within thirty days after the objecting party served his objections on the college's public records officer and shall be an informal hearing. The president or his designee shall determine the time and place for such hearing. At the hearing, the objecting party shall further explain and identify his exact purpose for seeking the~~

record he has been denied or why he has lodged objections to transfer of a student record. Failure by the person requesting the review to appear at such informal hearing shall be deemed a waiver of that person's right to insist upon completion of the review of his request.

~~(4) During the course of the informal hearing conducted by the president, his designee, the person conducting hearing shall consider the obligation of the college to fully comply with the Family Educational Rights and Privacy Act, but shall also consider the exemptions provided in the course of these regulations. A record shall be made of the informal hearing by mechanical transcriptions or any other means satisfactory to the college.~~

~~(5) Within ten days after the hearing has occurred, the president, or his designee, or the hearing officer appointed to conduct the informal hearing shall provide the objecting party with a written decision, which decision shall be binding upon the college and upon the objecting party.) (1) Any student who believes that inaccurate, misleading, or otherwise inappropriate data is contained within his or her education records shall be permitted to have included within the record a written explanation by the student concerning the content of the records.~~

~~(2) A student shall have the right, in accordance with the procedures set forth in WAC 132R-190-100, to:~~

~~(a) Challenge the content of education records in order to ensure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student;~~

~~(b) Have the opportunity to correct or delete inaccurate, misleading, or otherwise inappropriate data contained within education records;~~

~~(c) Challenge the release of education records to specific persons as contrary to the provisions of this chapter; and~~

~~(d) Challenge a decision by the college to deny the student access to particular types of records.~~

~~(3) A student shall not be permitted under this chapter to challenge the validity of grades given in academic courses, except on the grounds that, as a result of clerical error, the student's records fail to accurately reflect the grades actually assigned by an instructor.~~

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

~~**WAC 132R-190-100 ((Right of students to register objections)) Procedure for challenges.** ((Any student who objects to the accuracy or truthfulness of any information contained in any Big Bend Community College education records or portion thereof that is related to him may submit to the college's public records officer his written views regarding the same, which written objection shall then be included in such education records provided, however, no student has any right to post his objections to academic grades and have the same appear on his academic transcripts-)) (1) A student wishing to exercise the rights set forth in WAC 132R-190-090 shall first discuss with the director of admissions and registrar the nature of the corrective action sought by the student.~~

~~(2) If the informal proceedings required in subsection (1) of this section fail to resolve the student's challenge, the student may file with the public records officer provided for~~

in chapter 132R-175 WAC a written request for a hearing (brief adjudicative proceeding pursuant to chapter 132R-02 WAC).

(3) Within a reasonable time after submission of a request for hearing, the president or his or her designee will appoint a hearing officer. The hearing officer may not have a direct interest in the outcome of the hearing.

(a) The hearing officer shall conduct a hearing concerning the student's request for corrective action within a reasonable time and shall reasonably in advance of the hearing notify the student of the date, time and place of the hearing.

(b) The student may, at his or her expense, be represented by one or more individuals of his or her choice at the hearing.

(c) The student and the college shall be afforded a full and fair opportunity to present evidence relevant to the issues raised in the original request for the hearing. A record shall be made of the hearing by means satisfactory to the college.

(d) Within ten days of the completion of the hearing, the hearing officer shall provide the parties with a written decision based solely on the evidence presented at the hearing. The decision will include a summary of the evidence presented and the reasons for the decision. The decision shall be binding upon the college and the student.

(4) If the education records are held to be accurate, or not misleading or in violation of the student's right of privacy, the college will notify the student of his or her right to place in the record a statement commenting on the challenged information and/or a statement setting forth the reasons for disagreeing with the decision. Such statement will be maintained as part of the student's education records as long as the contested portion is maintained and must be disclosed if the college discloses the contested portion of the record.

(5) If information in the education record is held to be inaccurate, misleading, or in violation of the student's right of privacy, the college will amend the record and so notify the student in writing.

AMENDATORY SECTION (Amending Order 76-9, filed 3/9/76)

WAC 132R-190-110 ((~~Emergency release.~~) ~~Disciplinary records.~~ ((Information from education records may be released to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student or other person(s).)) ~~Disciplinary records shall be kept separate and apart from academic records, and transcripts of a student's academic record shall contain no notation of any disciplinary action. Special precautions shall be exercised to ensure that information from disciplinary or counseling files is not revealed to unauthorized persons. Provisions shall be made for periodic review and routine destruction of inactive disciplinary records by offices maintaining such records. However, the results of any disciplinary proceeding, concerning a crime of violence as defined by 18 U.S.C. Sec. 16 may be released to an alleged victim of that crime.~~

WSR 94-01-054

**WITHDRAWAL OF PROPOSED RULES
PUBLIC DISCLOSURE COMMISSION**

[Filed December 8, 1993, 10:44 a.m.]

The Public Disclosure Commission hereby withdraws WAC 390-17-050, 390-17-060, and 390-17-065 filed with your office under WSR 93-12-018; WAC 390-16-038, filed with your office under WSR 93-12-024; WAC 390-16-200 filed with your office under WSR 93-12-025; and WAC 390-17-060 filed with your office under WSR 93-12-046.

Karen M. Copeland
Administrative Officer

WSR 94-01-055

**WITHDRAWAL OF PROPOSED RULES
DEPARTMENT OF HEALTH**

(Board of Massage)

[Filed December 8, 1993, 10:52 a.m.]

On August 16, 1993, the Board of Massage held a rule hearing regarding proposed continuing education requirements for massage practitioners, new sections WAC 246-830-460 through 246-830-486. The rule had been filed under notice number WSR 93-14-133 filed with your office on July 7, 1993.

The board moved, seconded and passed a motion to withdraw the proposed rules and to propose it at a later date.

Janice K. Boden
Program Manager

WSR 94-01-056

**PROPOSED RULES
DEPARTMENT OF HEALTH**

[Filed December 8, 1993, 10:53 a.m.]

Original Notice.

Title of Rule: WAC 246-815-030 Education requirements for licensure applicants.

Purpose: To amend the rule to reflect the current revised American Dental Association accreditation standards for dental hygiene education.

Statutory Authority for Adoption: Chapter 18.29 RCW.
Statute Being Implemented: RCW 18.29.130.

Summary: The amendment will reflect the current American Dental Association accreditation standards for dental hygiene which were revised January 1, 1993.

Reasons Supporting Proposal: To establish accurate reflection of date of standards.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Carol Lewis, Olympia, Washington, (206) 586-1867.

Name of Proponent: Department of Health, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: It establishes specific education requirements for dental hygiene licensure applicants.

Proposal Changes the Following Existing Rules:
Amends existing rule to reflect the current date of the American Dental Association dental hygiene accreditation standards, which are January 1993.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

This rule does not impact small business.

Hearing Location: First Floor Conference Room, Department of Health, Blue Awning Building, 1102 Quince Street, Olympia, WA 98504, on February 1, 1994, at 1:30.

Submit Written Comments to: Ann Foster, Rules Coordinator, P.O. Box 47902, Olympia, WA 98504-7902, by January 30, 1994.

Date of Intended Adoption: February 2, 1994.

December 3, 1993

Bruce Miyahara
Secretary

AMENDATORY SECTION (Amending Order 224, filed 12/23/91, effective 1/23/92)

WAC 246-815-030 Education requirements for licensure applicants. (1) To be eligible for dental hygiene licensure, the applicant must have successfully completed a dental hygiene education program approved by the secretary of the department of health. The secretary adopts those standards of the American Dental Association Commission on Dental Accreditation relevant to the accreditation of dental hygiene schools, in effect in January, ~~((1981))~~ 1993. In implementing the adopted standards, the secretary approves those dental hygiene education programs which were accredited by the commission as of January ~~((1981))~~ 1993. *Provided*, That the accredited education program's curriculum includes:

- (a) Didactic and clinical competency in the administration of injections of local anesthetic;
- (b) Didactic and clinical competency in the administration of nitrous oxide analgesia;
- (c) Didactic and clinical competency in the placement of restorations into cavities prepared by a dentist; and
- (d) Didactic and clinical competency in the carving, contouring, and adjusting contacts and occlusions of restorations.

(2) Dental hygiene education programs approved by the secretary of the department of health pursuant to the American Dental Association Commission on Dental Accreditation standards in effect in January, ~~((1981))~~ 1993, whose curriculum does not include the didactic and clinical competency enumerated in (1)(a)-(d) above will be accepted if the applicant has successfully completed an expanded functions education program(s) approved pursuant to WAC 246-815-110, 246-815-120, and 246-815-130.

(3) A form will be provided in the department of health licensure application packages for the purpose of education verification.

WSR 94-01-057
PROPOSED RULES
DEPARTMENT OF HEALTH
[Filed December 8, 1993, 10:54 a.m.]

Original Notice.

Title of Rule: Class IV Health insurance eligibility.

Purpose: Provide health insurance continuation payments for certain HIV/AIDS persons.

Other Identifying Information: Chapter 246-132 WAC.

Statutory Authority for Adoption: RCW 43.70.020.

Statute Being Implemented: RCW 43.70.020.

Summary: The statute had a sunset date of June 30, 1991. The legislature did not enact continuing legislation at that time. The 1993 legislature reenacted the program and placed it with the Department of Social and Health Services.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: David Baird.

Name of Proponent: Department of Social and Health Services, governmental.

Agency Comments or Recommendations, if any, as to Statutory Language, Implementation, Enforcement, and Fiscal Matters: The rules should be repealed.

Explanation of Rule, its Purpose, and Anticipated Effects: The WAC set basic program eligibility standards for persons disabled by HIV infection. The statute was enacted in 1989 with a June 30, 1991, sunset clause. The rule was left intact as there was a good possibility that the program would be renewed. In 1993 the legislature reenacted the statute and placed program responsibility with the Department of Social and Health Services.

Proposal Changes the Following Existing Rules: The proposal repeals existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

No small business impact.

Hearing Location: Department of Health, 1102 Quince Street S.E., 1st Floor Conference Room, Olympia, WA 98504, on February 1, 1994, at 10 a.m.

Submit Written Comments to: Ann Foster, Rules Coordinator, Department of Health, P.O. Box 47902, Olympia, WA 98504, by January 20, 1994.

Date of Intended Adoption: February 9, 1994.

December 1, 1993
Mimi L. Fields, MD, MPH
for Bruce Miyahara
Secretary
Department of Health

REPEALER

The following chapter is hereby repealed:

Chapter 246-132 WAC Class IV HIV Health insurance eligibility

WSR 94-01-059
PROPOSED RULES
DEPARTMENT OF HEALTH
[Filed December 8, 1993, 11:04 a.m.]

Continuance of WSR 93-19-048.

Title of Rule: Radiation protection standards.

Purpose: The purpose of the rules and regulations for radiation protection is to ensure that worker and public exposure to sources of radiation is minimal and that safety is maintained.

Statutory Authority for Adoption: RCW 70.98.050.

Statute Being Implemented: RCW 70.98.050.

Summary: Three parts of the original revision to the rules and regulations for radiation protection are being placed in continuance. These are WAC 246-225-020 Administrative control for x-ray in the healing arts; and chapters 246-239 and 246-240 WAC, Nuclear medicine and medical therapy.

Reasons Supporting Proposal: The proposed revision to these specific rules generated considerable comment. Two work groups will be formed to discuss the proposed revision further.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: T. R. Strong, Tumwater, 586-8949.

Rule is not necessitated by federal law, federal or state court decision.

Hearing Location: Melbourne Tower, 7th Floor Conference Room, 1511 Third Avenue, Seattle, WA 98101, on February 4, 1994, at 1 p.m.

Submit Written Comments to: Ann Foster, Rules Coordinator, Department of Health, Olympia, Washington 98504-7902, by January 31, 1994.

Date of Intended Adoption: February 9, 1994.

December 3, 1993
Bruce Miyahara
Secretary

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Jan Blackburn, Division of Developmental Disabilities, 753-2786.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: February 1, 1994.

December 8, 1993
Dewey Brock, Chief
Office of Vendor Services
Administrative Services Division

WSR 94-01-062
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
(Institutions)

[Filed December 8, 1993, 3:20 p.m.]

Supplemental Notice to WSR 93-21-078.

Title of Rule: WAC 275-27-220 Family support services, 275-27-223 Service need levels, and 275-27-221 Family financial participation.

Purpose: Requires families receiving family support services to provide the department information regarding family income and family size. To include the incremental formula for determining the families' ability to participate in the purchase of needed services. Defines gross family income, dependents, family, and disability-related expenses.

Statutory Authority for Adoption: RCW 71A.12.040.

Statute Being Implemented: RCW 43.43.745.

Summary: WAC defines gross family income, dependents, family and disability-related expenses. Includes the incremental formula.

Reasons Supporting Proposal: The 1993 legislature reduced the division's support budget with the expectation that the division would implement a family financial participation program, RCW 43.43.745.

AMENDATORY SECTION (Amending Order 3372, filed 4/21/92, effective 5/22/92)

WAC 275-27-220 Family support services. (1) The department's intent of family support services shall be to:

(a) Reduce or eliminate the need for out-of-home residential placement of a client (~~((wherein))~~) where the in-home placement is in the client's best interest;

(b) Allow a client to live in the most independent setting possible; and

(c) Have access to services best suited to a client's needs.

(2) The department's family support services shall include, but not be limited to, the following services:

(a) Emergency or planned respite care;

(b) Attendant care;

(c) Therapeutic services, including:

(i) Physical therapy;

(ii) Occupational therapy;

(iii) Behavior management therapy; and

(iv) Communication therapy.

(d) The purchase, rental, loan, or refurbishment of specialized equipment, environmental modifications, and other adaptations; and

(e) Other service (~~((pursuant to))~~) approved by the director or designee as described under subsection (1) of this section (~~((approved by the director or designee))~~).

(3) The department shall authorize services to the family for a specified time-limited period.

(a) A departmental service authorization shall state the type, amount, and period (duration) of service. Each department authorization shall constitute a new service for a new period.

(b) If requested family support services are not authorized, such actions shall be deemed a denial of services.

(c) Family support services may be authorized below the amount requested by the family for the period. When, during the authorized service period, family support services are reduced or terminated below the amount specified in service authorizations, the department shall deem such actions as a reduction or termination of services.

(4) The department shall authorize family support services in accordance with department-established policies (~~(established by the department)~~). The department shall base periodic service authorizations on:

(a) Requests for family support services described in subsection (2) of this section;

(b) Service need levels as described in section 223 of this chapter;

(c) Availability of family support funding; ~~(and)~~

(d) The family's ability to purchase services required by a minor client as described under WAC 275-27-221 based on family-provided financial information; and

(e) Authorization by a review committee, in each regional office, which reviews each request for service; and

(5) The department shall authorize family support services contingent upon the applicant providing accurate and complete information concerning family income and disability-related expenses as requested by the department. An applicant's failure to provide accurate and complete information may result in reduction in the family's family support service authorization. The department shall ensure such reduction does not result in family participation beyond that required by the actual level of family income and disability-related expenses for the period in question.

(6) The department shall ensure service authorizations do not exceed maximum amounts for each service need level based on the availability of funds.

(7) The department shall not authorize a birth parent, adoptive parent, or stepparent living in the same household as the client as the direct care provider for respite, attendant, nursing, therapy, or counseling services for a child seventeen years of age or younger.

NEW SECTION

WAC 275-27-221 Family financial participation. (1) "Dependent" means a relative who depends on the family income for at least half of the relative's support.

(2) "Disability-related expenses" means the:

(a) Most recent annual expenses provided by the family to eligible clients including bills from physician, dentists, and other medical professionals;

(b) Clients' health insurance premiums and/or medical spenddown;

(c) Amounts paid to rent or purchase medical equipment;

(d) Amounts paid for modification of homes or vehicles to accommodate the eligible children;

(e) Specialized clothing;

(f) Exceptional child care and other disability-related expenses.

(3) "Family" means a person or a person and the person's spouse, if not legally separated, and the person's dependents.

(4) "Gross family income" means the total income of all members of a family. Income includes:

(a) Earned income, such as wages and tips;

(b) Unearned income, such as interest, dividends, and pensions;

(c) Family's share of income from S corporations (domestic corporation with one class of stock having thirty-five or less shareholders, who are U.S. citizens), partnerships, estates, and trusts;

(d) Gains from the sale or exchange (including barter) of real estate, securities, coins, gold, silver, gems, or other property;

(e) Gain from the sale or exchange of the family's main home;

(f) Accumulation distributions from trusts;

(g) Scholarships and fellowship grants;

(h) Original issue discount, distribution from simplified employee pensions (SEPs) and deductible employee contributions (DECs);

(i) Amounts received in place of wages from accident and health plans if employer paid for the policy;

(j) Bartering income, Tier 2 and supplemental annuities under the Railroad Retirement Act;

(k) Life insurance proceeds from a policy the family cashed in if the proceeds are more than the premiums paid;

(l) Endowments;

(m) Lump-sum distributions;

(n) Prizes and awards;

(o) Gambling winnings;

(p) Social Security;

(q) Capital gains; and

(r) Child support.

(s) Income does not include earned income by dependent family members, nor income of a family member who resides in another household when such income is not available to the family member seeking family support services.

(5) Based on the level of family support services authorized under WAC 275-27-220(4) for a client who is seventeen years of age or younger, in order to be authorized for family support services, each family shall provide the department with accurate and complete information sufficient to assess the family's ability to participate in the purchase of family support services. This information includes:

(a) Family's annual gross income;

(b) Family size; and

(c) Client's disability-related expenses.

(6) The department shall make an assessment of the family's ability to purchase services required by the client as follows:

(a) Determine the annual gross income of the eligible client's family;

(b) Not require families, whose annual gross income is less than three hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, to participate in the purchase of family support services;

(c) Require families, whose annual gross income is three hundred percent or more of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, to participate in the purchase of the services according to the following incremental formula:

(i) For that portion of a family's income between three hundred percent and four hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be six percent times that portion of the family's reported income;

(ii) In addition, for that portion of a family's income between four hundred percent and five hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be six and one-half percent times that portion of the family's reported income;

(iii) In addition, for that portion of a family's income between five hundred percent and six hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be seven percent times that portion of the family's reported income;

(iv) In addition, for that portion of a family's income between six hundred percent and seven hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be seven and one-half percent times that portion of the family's reported income;

(v) In addition, for that portion of a family's income between seven hundred percent and eight hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be eight percent times that portion of the family's reported income;

(vi) In addition, for that portion of a family's income between eight hundred percent and nine hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be eight and one-half percent times that portion of the family's reported income;

(vii) In addition, for that portion of a family's income between nine hundred percent and one thousand percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be nine percent times that portion of the family's reported income;

(viii) In addition, for that portion of a family's income between one thousand percent and eleven hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be nine and one-half percent times that portion of the family's reported income;

(ix) In addition, for that portion of a family's income between eleven hundred percent and fourteen hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be ten percent times that portion of the family's reported income; and

(x) The department shall not authorize family support services for families whose annual gross income is over fourteen hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size.

(d) The department shall adjust the annual gross income downward for annual disability-related expenses incurred by the family for eligible clients.

(7) The department may re-evaluate at any time the ability of a family to purchase required family support services under this subsection, but not less than once per year or when the department believes there is a change of factors that determine ability to purchase services including family income and family size.

(8) The department shall recompute the required level of participation as described under subsection (7) of this section if the department's re-evaluation reveals a difference of one hundred twenty dollars per year or more between the:

(a) Family's current ability to participate in the purchase of family support services; and

(b) Level of financial participation most recently determined by the department.

(9) The department may recompute the level of participation when the difference is less than one hundred twenty dollars per year.

AMENDATORY SECTION (Amending Order 3372, filed 4/21/92, effective 5/22/92)

WAC 275-27-223 Service need levels. (1) The department shall use service need levels to determine periodic family support service authorizations.

(2) The department shall determine service need levels in order of priority for funding as follows:

(a) Service need level 1: Client is at immediate risk of out-of-home placement without the provision of family support services. The client needs intensive residential support to assist the client's family to care for the family's child or adult requiring nursing services, attendant care, or support due to difficult behaviors. ~~((The client must receive the majority of family support services in such client's home. An existing or new eligible client must have received, over the most recent three months, at least ten days or eighty hours per month of such service;))~~ A client shall:

(i) Have received, over the past three months, at least ten days or eighty hours of service; or

(ii) Requires at least ten days or eighty hours per month of service to prevent immediate out-of-home placement, based upon an assessment conducted by the department;

(b) Service need level 2: Client is at high risk of out-of-home placement without the provision of family support services and has one or more of the following documented in writing:

(i) The client:

(A) Currently receives adult protective services or division of children and family services as an active:

- (I) Child protective service client;
- (II) Child welfare service client; or
- (III) Family reconciliation service client.

(B) Has returned home from foster care or group care placement within the last six months;

(C) Has a serious medical problem requiring close and ongoing monitoring and/or specialized treatment, such as:

- (I) Apnea monitor;
- (II) Tracheotomy;
- (III) Heart monitor;
- (IV) Ventilator;
- (V) Constant monitoring due to continuous seizures;
- (VI) Immediate life-saving intervention due to life threatening seizures;

(VII) Short bowel syndrome; or

(VIII) Brittle bone syndrome.

(D) Has a dual diagnosis based on current mental health DSM Axis I diagnosis;

(E) Has an extreme behavioral challenge resulting in health and safety issues for self and/or others which:

(I) Resulted in serious physical injury to self or others within the last year;

(II) For a client who is two years of age or older, requires constant monitoring when awake for personal safety reasons; or

(III) Is of imminent danger to self or others as determined by a psychiatrist, psychologist, or other qualified professional.

(F) Is ten years of age or older or weighs forty pounds or more, requires lifting, and needs direct physical assistance in three or more of the following areas:

(I) Bathing;

(II) Toileting;

(III) Feeding;

(IV) Mobility; or

(V) Dressing.

(ii) The caregiver:

(A) Is a division of developmental disabilities client;

(B) Has a physical or medical problem that interferes with providing care; or

(C) Has serious mental health or substance abuse problems and:

(I) Is receiving counseling for these problems; or

(II) Has received or applied for counseling within the past six months.

(c) Service need level 3: The family is at risk of significant deterioration which could result in an out-of-home placement of the client without provision of family support services due to the following:

(i) The client requires direct physical assistance, above what is typical for such client's age, in three or more of the following areas:

(A) Bathing;

(B) Toileting;

(C) Feeding;

(D) Mobility; or

(E) Dressing.

(ii) The client has current behavioral episodes resulting in:

(A) Physical injury to the client or others;

(B) Substantial damage to property; and/or

(C) Chronic sleep pattern disturbances or chronic continuous screaming behavior.

(iii) The client has medical problems requiring substantial extra care; and/or

(iv) The family is:

(A) Experiencing acute and/or chronic stress;

(B) Has acute or chronic physical limitations; or

(C) Has acute or chronic mental or emotional limitations.

(d) Service need level 4: Family needs temporary or ongoing services in order to:

(i) Receive support to relieve and/or prevent stress of caregiver/family; or

(ii) Enhance the current functioning of the family.

(3) The department shall determine service need level of the client's service request by reviewing information received from the client, family, and other sources about:

(a) Whether client is an active recipient of services from the division of children and family services or adult protective services;

(b) Whether indicators of risk of out-of-home placement exist, and the imminence of such an event. The department's assessment of such risk may include:

(i) Review of family's requests for placement;

(ii) History of family's involvement with children's protective services or adult protective services;

(iii) Client's current adjustment;

(iv) Parental history of psychiatric hospitalization;

(v) Clinical assessment of family's condition; and

(vi) Statements from other professionals.

(c) Caregiver conditions, such as acute and/or chronic:

(i) ~~((Acute and/or chronic))~~ Stress;

(ii) ~~((Acute and/or chronic))~~ Physical limitations; and

(iii) ~~((Acute and/or chronic))~~ Mental and/or emotional impairments.

(d) Client's need for intense medical, physical, or behavioral support;

(e) Family's ability to use typical community resources;

(f) Availability of private, local, state, or federal resources to help meet the need for family support;

(g) Severity and chronicity of family or client problems; and

(h) Degree to which family support services will:

(i) Ameliorate or alleviate such problems; and

(ii) Reduce the risk of out-of-home placement.

~~((4) Beginning May 1, 1992, the department's revised service need level definitions shall be in effect. The department's service need levels currently defined under section 223 of this chapter shall remain in effect through April 1992.))~~

WSR 94-01-075

WITHDRAWAL OF PROPOSED RULES OFFICE OF INSURANCE COMMISSIONER

[Filed December 9, 1993, 4:06 p.m.]

I hereby withdraw proposed rules entitled: Participating provider contracts—Standards, as filed with the code reviser on July 20, 1993, and as published in WSR 93-15-092 and 93-15-093.

Deborah Senn
Insurance Commissioner

WSR 94-01-079

PROPOSED RULES DEPARTMENT OF SOCIAL AND HEALTH SERVICES (Institutions)

[Filed December 10, 1993, 4:06 p.m.]

Continuance of WSR 93-24-088.

Title of Rule: Chapter 275-56 WAC, new sections WAC 275-56-600 through 275-56-720, and amending WAC 275-56-015 Definitions.

Purpose: Allows implementation of the federally mandated waiver of the Title XIX program. Creates rules for managed care prepaid healthcare plans in accordance with federally approved Title XIX waiver, including client eligibility, enrollment, disenrollment, exceptions, grievances, ombuds services, quality assurance, and payment.

Name of Proponent: Department of Social and Health Services, governmental.

Date of Intended Adoption: December 20, 1993.

December 10, 1993
Dewey Brock, Chief
Office of Vendor Services
Administrative Services Division

WSR 94-01-080
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES

(Public Assistance)

[Filed December 10, 1993, 4:08 p.m.]

Original Notice.

Title of Rule: WAC 388-43-120 Policies for transition.

Purpose: Clarifies policies during the transition period between the repeal of chapter 248-172 WAC and full implementation of chapter 388-43 WAC.

Statutory Authority for Adoption: RCW 43.20A.725 (SHB 1752).

Statute Being Implemented: RCW 43.20A.725 (SHB 1752).

Summary: Defines criteria by which each client will be assessed as to whether the client is to reapply immediately or wait two years.

Reasons Supporting Proposal: New chapter 388-43 WAC repeals chapter 248-172 WAC. This new section clarifies the transition between chapters 248-172 and 388-43 WAC.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Leon Curtis, Office of Deaf and Hard of Hearing Services, 753-0703.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

Office of Deaf and Hard of Hearing Services will provide sign language assistance. TDD (206) 586-8249, Voice (206) 586-8250.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia,

98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 10, 1993
Dewey Brock, Chief
Office of Vendor Services
Administrative Services Division

NEW SECTION

WAC 388-43-120 Policies for transition. (1) A person issued telecommunications equipment from telecommunications access service (TAS) at or before November 15, 1993, shall become the owner of the equipment. TAS shall be absolved of all responsibility for replacement or repair of equipment issued at or before November 15, 1993. An owner issued equipment at or before November 15, 1993, shall be responsible for equipment repairs.

(2) A person issued telecommunications equipment at or before November 15, 1991, who still has the equipment and the equipment breaks shall re-apply for new telecommunications equipment under chapter 388-43 WAC.

(3) A person issued telecommunications equipment from 1988 through November 15, 1993, exchanged for reconditioned equipment at or before November 15, 1993, and who has exchanged equipment an average of less than once per year over the period of issue shall re-apply under chapter 388-43 WAC.

(4) A person with a history of exchanging equipment an average of one or more times per year since the original issue shall wait two years before re-applying for new equipment. If such person received reconditioned equipment, refer to subsection (5) of this section.

(5) A person with no history of damaged equipment and less than one equipment exchange per year who was issued reconditioned equipment in 1993 which has a technical malfunction may apply for new equipment under chapter 388-43 WAC.

(6) The department shall allow a person to apply for equipment under chapter 388-43 WAC who:

(a) Has not previously applied for equipment from TAS; and

(b) Meets the eligibility requirements of WAC 388-43-010 of this chapter.

(7) The department shall allow a person to re-apply for new equipment who:

(a) Received equipment from TAS more than two years ago; and

(b) Has lost contact with the TAS office.

(8) The department shall not allow a person who has lost contact with the TAS office and has had TAS equipment for less than two years to re-apply until two years after the last date the person received new equipment.

(9) There may be a person wishing to re-apply whose situation does not fit subsections (1) through (8) of this section. In such instances, the TAS office and office of deaf and hard of hearing services (ODHHS) shall make determination on a case-by-case basis. TAS and ODHHS shall use the following guidelines to determine when a person may re-apply:

(a) Length of time the person had TAS equipment;

(b) Person's history of taking care of equipment;

- (c) Person's history of exchanging equipment; and
 (d) Person's contact with the TAS office to advise of address and/or status changes.

WSR 94-01-081
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
 (Public Assistance)

[Filed December 10, 1993, 4:10 p.m.]

Original Notice.

Title of Rule: WAC 388-86-030 Eyeglasses and examinations.

Purpose: Removes the need for prior authorization of vision care services. Restricts adult clients to one eye examination for procurement of eye glasses every two years.

Statutory Authority for Adoption: RCW 74.08.090.

Statute Being Implemented: RCW 74.08.090.

Summary: Sets restrictions on the procurement of eyeglasses and examinations for procurement of eyeglasses.

Reasons Supporting Proposal: Removes the need for prior authorization on vision care services.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Bobbe Andersen, Medical Assistance Administration, 753-0529.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 10, 1993

Dewey Brock, Chief

Office of Vendor Services

Administrative Services Division

AMENDATORY SECTION (Amending Order 2559, filed 11/18/87)

WAC 388-86-030 Eyeglasses and examinations. (1) The ~~((department))~~ medical assistance administration (MAA) shall ~~((provide))~~ reimburse a provider for medically necessary eye ~~((examinations to eligible recipients when medically necessary. Eyeglasses and fitting services shall be provided~~

~~when a refractive error of sufficient magnitude exists to require corrective lenses.~~

~~(2) The department shall provide only one examination, fitting fee, refraction and one pair of glasses per eligible recipient during a twelve-month period, except (a) for eye services provided under the EPSDT program, or (b) in extenuating circumstances when medically necessary.~~

~~(3) Prior authorization is required for medical eye care procedures and for special eyeglass services including but not limited to, contact lenses, low vision aids, executive bifocals and trifocals, artificial eyes and two pair of glasses in lieu of bifocal or trifocal lenses)) care services for a client:~~

~~(a) Twenty-one years of age or over, one each of the services listed under subsection (2) of this section, in a twenty-four-month period; or~~

~~(b) Twenty years of age or under, one each of the services listed under subsection (2) of this section, in a twelve-month period.~~

(2) The MAA's eye care services shall include:

(a) Eye examinations;

(b) Refractions;

(c) Fitting fees; and

(d) Eyeglass lenses and/or frames.

(3) The time period limitation does not apply when the:

(a) Medical eye examination is medically necessary for diagnosing and/or treating a medical condition; or

(b) Client described under subsection (5) of this section requires replacement glasses due to loss or breakage.

(4) MAA shall limit the choice of frames ((is limited)) and lenses to frames and lenses listed under contract in the current ((division of medical assistance)) MAA numbered memoranda and/or MAA provider's billing instructions on that subject. ((Frames are not provided for cosmetic effect or psychological support.))

(5) The department shall not provide sunglasses, photochromic or varalux type lenses and orthoptics therapy)) MAA shall only reimburse for replacement of broken or lost eyeglasses for a:

(a) Client of the division of developmental disabilities;

(b) Child twenty years of age or under; or

(c) Client residing in an institution.

(6) MAA shall reimburse for replacement of lenses for a change in refractive error in the prescription spherical equivalent of a plus or minus of one diopter. The change in prescription shall not apply to providing a second pair of eyeglasses.

(7) MAA shall not reimburse a provider for eyeglasses when the client's prescription is over two years old.

(8) MAA shall reimburse for:

(a) Specialized lenses only for conditions as listed in MAA provider's billing instructions; and

(b) Contact lenses:

(i) Only when medically justified; and

(ii) As allowed in a twelve-month period with the conditions specified in MAA provider's billing instructions.

(9) The provider shall document and maintain in the client's record medical justification of the eye care services.

(10) Except for services as defined in WAC 388-86-027, the department shall not permit group screening for eyeglasses.

(11) The department shall reimburse for eye care services provided to clients eligible under the:

(a) Categorically needy, children's health, general assistance unemployable and ADATSA programs; or

(b) Medically needy program; or

(c) Medically indigent program only as treatment for emergent services as specified in MAA provider's billing instructions.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-088
WITHDRAWAL OF PROPOSED RULES
DEPARTMENT OF HEALTH
 (By the Code Reviser's Office)
 [Filed December 14, 1993, 8:05 a.m.]

WAC 246-901-035, proposed by the Department of Health in WSR 93-12-123, appearing in issue 93-12 of the State Register, which was distributed on June 16, 1993, is withdrawn by the code reviser's office under RCW 34.05.335(3), since the proposal was not adopted within the one hundred eighty day period allowed by the statute.

Kerry S. Radcliff, Editor
 Washington State Register

WSR 94-01-089
WITHDRAWAL OF PROPOSED RULES
DEPARTMENT OF ECOLOGY
 (By the Code Reviser's Office)
 [Filed December 14, 1993, 8:07 a.m.]

WAC 173-303-220, 173-303-370, 173-303-680 and 173-303-9908, proposed by the Department of Ecology in WSR 93-12-109, appearing in issue 93-12 of the State Register, which was distributed on June 16, 1993, is withdrawn by the code reviser's office under RCW 34.05.335(3), since the proposal was not adopted within the one hundred eighty day period allowed by the statute.

Kerry S. Radcliff, Editor
 Washington State Register

WSR 94-01-090
WITHDRAWAL OF PROPOSED RULES
OFFICE OF MINORITY AND
WOMEN'S BUSINESS ENTERPRISES
 (By the Code Reviser's Office)
 [Filed December 14, 1993, 8:10 a.m.]

WAC 326-02-034, proposed by the Office of Minority and Women's Business Enterprises in WSR 93-12-135, appearing in issue 93-12 of the State Register, which was distributed on June 16, 1993, is withdrawn by the code reviser's office under RCW 34.05.335(3), since the proposal was not adopted within the one hundred eighty day period allowed by the statute.

Kerry S. Radcliff, Editor
 Washington State Register

WSR 94-01-091
PROPOSED RULES
BELLEVUE COMMUNITY COLLEGE

[Filed December 14, 1993, 11:42 a.m.]

Original Notice.

Title of Rule: Repeals rules which are incorrect pertaining to admissions, residency classification and registration regulations.

Purpose: Repeals rules in chapter 132H-160 WAC which are outdated or have been superseded by other rules.

Statutory Authority for Adoption: RCW 28B.50.140.

Statute Being Implemented: RCW 28B.50.140.

Summary: Repeals rules which are not longer valid or are of an obvious general nature which are covered in the quarterly class schedule. All rules being repealed fall under the admissions, residency classification and registration regulations section.

Reasons Supporting Proposal: Repealing these portions of the WAC will streamline the rules and repeal information which is no longer correct.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Tomas Ybarra, B231, (206) 641-2454.

Name of Proponent: Bellevue Community College, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Repeal of these rules will clarify the WAC applying to registration, admission and residency classification and make them easier to read and interpret.

Proposal Changes the Following Existing Rules: Repeals WAC 132H-160-040 Quarterly registration fees—Resident students, 132H-160-050 Quarterly registration fees—Nonresident students, 132H-160-056 Procedure for determining amount of tuition and fee waivers, 132H-160-059 Combination of tuition and fee waivers with other forms, 132H-160-070 Noncredit enrollment, 132H-160-080 Continuing education, 132H-160-120 Credit examination, 132H-160-140 General education development test, 132H-160-150 Parking permit, 132H-160-260 Admission of foreign students, 132H-160-320 Continuing education policy, 132H-160-330 Definition of continuing education, 132H-160-350 Residency classification procedures—Statement of purpose, 132H-160-390 Southeast asian veterans, 132H-160-400 Appeal of determination of residency decision, 132H-160-430 Advanced registration fee requirement for fall, winter and spring quarter, 132H-160-440 Refund of advanced registration fee, 132H-160-492 Withdrawal from a course (policy and procedures), 132H-160-520 Auditing a course, 132H-160-600 Request for financial aid information, 132H-160-610 Priority for financial aid, 132H-160-620 Credit requirement for financial aid recipient, 132H-160-630 Adjustment of aid package, 132H-160-640 Limitation of hours employed, 132H-160-650 Cancellation of grant aid, 132H-160-660 Work study job termination, 132H-160-670 Limited aid funds—Priorities, 132H-160-680 Academic

status of financial aid recipients, and 132H-160-690 Student emergency loan requirements.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Bellevue Community College, 3000 Landerholm Circle S.E., B202, Bellevue, WA 98007-6484, on January 25, 1994, at 8:00 a.m.

Submit Written Comments to: Elise Erickson, Secretary, Board of Trustees, Bellevue Community College, 3000 Landerholm Circle S.E., B202, Bellevue, WA 98007-6484, by January 24, 1994.

Date of Intended Adoption: January 25, 1994.

December 3, 1993

Elise J. Erickson

Executive Assistant

Secretary Board of Trustees

REPEALER

The following sections of the Washington Administrative Code are repealed:

- WAC 132H-160-040 Quarterly registration fees - Resident students
- WAC 132H-160-050 Quarterly registration fees - Nonresident students
- WAC 132H-160-056 Procedure for determining amount of tuition and fee waivers
- WAC 132H-160-059 Combination of tuition and fee waivers with other forms of student financial aid
- WAC 132H-160-070 Noncredit (enrollment)
- WAC 132H-160-080 Continuing education
- WAC 132H-160-120 Credit examination
- WAC 132H-160-140 General education development test
- WAC 132H-160-150 Parking permit
- WAC 132H-160-260 Admission of foreign students
- WAC 132H-160-320 Continuing education policy
- WAC 132H-160-330 Definition of continuing education
- WAC 132H-160-350 Residency classification procedures - Statement of purpose
- WAC 132H-160-390 Southeast asian veterans
- WAC 132H-160-400 Appeal of determination of residency decision
- WAC 132H-160-430 Advanced registration fee requirement for fall, winter, and spring quarters
- WAC 132H-160-440 Refund of advanced registration fee
- WAC 132H-160-492 Withdrawal from a course (policy and procedures)
- WAC 132H-160-520 Auditing a course
- WAC 132H-160-600 Request for financial aid information
- WAC 132H-160-610 Priority for financial aid
- WAC 132H-160-620 Credit requirement for financial aid recipient
- WAC 132H-160-630 Adjustment of aid package
- WAC 132H-160-640 Limitation on hours employed

- WAC 132H-160-650 Cancellation of grant aid
- WAC 132H-160-660 Work study job termination
- WAC 132H-160-670 Limited aid funds - Priorities
- WAC 132H-160-680 Academic status of financial aid recipients
- WAC 132H-160-690 Student emergency loan requirements

WSR 94-01-096

WITHDRAWAL OF PROPOSED RULES STATE BOARD FOR COMMUNITY AND TECHNICAL COLLEGES

[Filed December 15, 1993, 10:55 a.m.]

The State Board for Community and Technical Colleges is withdrawing the rules and hearing notification for "Special services programs—Running start program," filed on December 1, 1993, WSR 93-24-100.

We intend to refile the rules and hearing date jointly with the Office of the Superintendent of Public Instruction and the Higher Education Coordinating Board by December 22, 1993.

Ronald J. Crossland, Ph.D.
Associate Director

WSR 94-01-097

PROPOSED RULES GROWTH PLANNING HEARINGS BOARDS

[Filed December 15, 1993, 2:49 p.m.]

Original Notice.

Title of Rule: Title 242 WAC.

Purpose: To amend the rules of practice and procedure, first adopted on an emergency basis on June 16, 1992, and on a permanent basis on October 15, 1992.

Statutory Authority for Adoption: RCW 36.70A.270(6).

Statute Being Implemented: Growth Management Act, primarily codified at chapter 36.70A RCW.

Summary: The proposed amendments to Title 242 WAC clarify existing rules and make them more internally consistent.

Reasons Supporting Proposal: The existing rules were adopted before many cases had been filed. Now that the boards have experience with the rules in actual cases, it is time to refine them.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: M. Peter Philley, 2329 One Union Square, 600 University Street, [Seattle], (206) 389-2625.

Name of Proponent: Washington State Growth Planning Hearings Boards, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Rules modifications are proposed for two reasons, to clarify them and to make them consistent with interpretations by the boards since the rules were adopted.

Proposal Changes the Following Existing Rules: The definition of "party" has been added to WAC 242-02-040, and "petitioner" and "respondent" amended to clarify the rules. WAC 242-02-052 (2)(e), 242-02-110(2), 242-02-140, 242-02-210(2), 242-02-250, 242-02-310, 242-02-340, 242-02-510, 242-02-522, 242-02-530, and 242-02-830 were amended accordingly; WAC 242-02-072 and 242-04-050 were amended to change the eastern board's address; a copy of the challenged ordinance or enactment shall be filed with a petition for review, WAC 242-02-210(3); WAC 242-02-220(4) has been added to clarify that "failure to adopt" actions can be filed at any time; the rules on how to file documents by fax have been clarified. Follow-up originals and copies must now be filed within three instead of ten days. Documents over 15 pages need board approval in order to be faxed, WAC 242-02-240; consistent with board rulings, discovery has been further limited so that parties may no longer stipulate to it, WAC 242-02-410; WAC 242-02-520 was amended to limit the scope of the index of the record below to focus only on documents related to the legal issues before a board and generally only those considered by a legislative body; WAC 242-02-522, 242-02-550, and 242-02-558 have been clarified, witnesses can testify only when permitted; WAC 242-02-540 was amended to state the board's general rule, only the record below is reviewed; briefs by moving parties or petitioners are mandatory. Failure to brief an issue constitutes abandonment, WAC 242-02-570; the Administrative Procedure Act has been referenced as applying when a board's final decision is appealed to superior court, WAC 242-02-892; and interested persons may be permitted to comment on a request for a declaratory ruling, WAC 242-02-920.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Central Puget Sound Growth Planning Hearings Board, 2329 One Union Square, 600 University Street, Seattle, WA 98101-1129, on February 23, 1994, at 10:00 a.m.

Submit Written Comments to: Central Puget Sound Growth Planning Hearings Board, by February 23, 1994.

Date of Intended Adoption: February 24, 1994.

December 14, 1993
M. Peter Philley
Rules Coordinator

Reviser's note: The material contained in this filing will appear in the 94-03 issue of the Register as it was received after the applicable closing date for the issue for agency-typed material exceeding the volume limitations of WAC 1-21-040.

WSR 94-01-112
PROPOSED RULES
HIGHER EDUCATION
COORDINATING BOARD
[Filed December 17, 1993, 9:15 a.m.]

Original Notice.

Title of Rule: Running start program.

Purpose: Establish policies and procedures governing the running start program whereby high school students

attend community college and earn both high school and college credit.

Statutory Authority for Adoption: RCW 28A.600.390, 28A.150.260, and [28A.150].290.

Statute Being Implemented: RCW 28A.600.300 through 28A.600.380.

Summary: Same as above.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Higher Education Coordinating Board, 917 Lakeridge Way, Olympia, 586-6734.

Name of Proponent: Higher Education Coordinating Board, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Updates current running start program rules which include definitions; enrollment rights, requirements and limitations; financial reports, claims and payments; and various miscellaneous provisions. Some of the more significant revisions/effects include but are not necessarily limited to: Clarification of the award of high school credit; clarification and limitation of the extent and timing of college enrollment/attendance; relaxation of the existing limitation upon combined high school and college enrollment; clarification of allowable college tuition and fees; and significant revisions of finance provisions implementing 1993 legislation providing for the separate calculation and allocation of a uniform rate of state funding for running start program purposes.

Proposal Changes the Following Existing Rules: Same as above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Old Capitol Building, Wanamaker Conference Room, 2nd Floor, 600 South Washington Street, Olympia, WA 98504, on January 25, 1994, at 9:00 a.m.

Submit Written Comments to: Hugh Walkup, P.O. Box 43430, Olympia, WA 98504-3430, by January 25, 1994.

Date of Intended Adoption: February 17, 1994.

December 17, 1993
Elson S. Floyd
Executive Director

NEW SECTION

WAC 250-79-010 Adopting running start rules by reference. WAC 392-169-005 through 392-169-125 is hereby adopted by reference.

WSR 94-01-113
PROPOSED RULES
STATE BOARD FOR COMMUNITY
AND TECHNICAL COLLEGES
[Filed December 17, 1993, 9:16 a.m.]

Original Notice.

Title of Rule: Running start program rules.

Purpose: Establish policies and procedures governing the running start program whereby high school students

attend community college and earn both high school and college credit.

Statutory Authority for Adoption: RCW 28A.600.390, 28A.150.260, and [28A.150].290.

Statute Being Implemented: RCW 28A.600.300 through 28A.600.380.

Summary: Same as above.

Name of Agency Personnel Responsible for Drafting: Ronald J. Crossland, State Board for Community and Technical Colleges, Olympia, Washington, 753-3674; Implementation: Ron Crossland and Dave Habura, State Board for Community and Technical Colleges, Olympia, Washington, 753-3674; and Enforcement: Rich Montecucco, Attorney General's Office, Olympia, Washington, 586-1197.

Name of Proponent: State Board for Community and Technical Colleges, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Updates current running start program rules which included definitions; enrollment rights, requirements and limitations; financial reports, claims and payments; and various miscellaneous provisions. Some of the more significant revisions/effects include but are not necessarily limited to: Clarification of the award of high school credit; clarification and limitation of the extent and timing of college enrollment/attendance; relaxation of the existing limitation upon combined high school and college enrollment; clarification of allowable college tuition and fees; and significant revisions of finance provisions implementing 1993 legislation providing for the separate calculation and allocation of a uniform rate of state funding for running start program purposes.

Proposal Changes the Following Existing Rules: Same as above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Old Capitol Building, Wanamaker Conference Room, 2nd Floor, 600 South Washington Street, Olympia, WA 98504, on January 25, 1993 [1994], at 9:00 a.m.

Submit Written Comments to: Ron Crossland, State Board for Community and Technical Colleges, P.O. Box 42495, Olympia, WA 98504-4295, January 25, 1994.

Date of Intended Adoption: January 27, 1994.

December 17, 1993

Ronald J. Crossland

Associate Director

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-010 Authority. The authority for this chapter is RCW 28A.600.390, which authorizes the superintendent of public instruction, the state board for community and technical colleges, and the higher education coordinating board to jointly develop and adopt rules governing RCW 28A.600.300 through 28A.600.380, and 28A.150.260 and 28A.150.290 which authorize the superintendent of public instruction to adopt rules governing basic education allocation moneys. The rules set forth in this chapter have been jointly developed and agreed upon by the three agencies, and

adopted and codified in separate chapters of the Washington Administrative Code by each of the three agencies. The rules may be modified only by agreement of all three agencies.

DEFINITIONS OF TERMS

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-020 Running start program—Definition. As used in this chapter, the terms "running start" and "running start program" mean((s)) the ~~((enrollment of an eligible student under this chapter simultaneously in school district and community college or technical college courses, or both, or solely in community college or technical college courses, or both,))~~ part-time to full-time equivalent enrollment of an eligible eleventh and twelfth grade high school student in a community college or technical college for the purpose of earning at least high school credit to be awarded by a school district, and such additional college level academic and college level vocational credit as may be awarded by ((s)) the community college or technical college.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-025 Eligible student—Definition. As used in this chapter, the term "eligible student" means any person, including a person who is otherwise attending a private school or receiving home-based instruction, who meets each of the following conditions:

(1) The person is under the age of twenty-one years of age ~~((at the beginning))~~ as of September 1 of the school year ~~((September 1 through August 31)))~~.

(2) The person is eligible by reason of his or her residence ~~((or admission under the))~~ or other criterion established by law to enroll in the school district through which the person seeks to obtain the award of running start program high school credit. See((s)) RCW 28A.175.090 ("at risk" students), RCW 28A.225.160 (residents of a school district), RCW 28A.225.170 (residents of the United States and Indian reservations), RCW 28A.225.210 (residents of "nonhigh" school districts), and RCW 28A.225.220 ("choice" students). Note: A running start student who changes his or her school district of residence, following enrollment in running start, solely for the purpose of attending college under this chapter shall be deemed to have retained his or her residence in the school district of initial running start enrollment for high school graduation, funding and other purposes under this chapter.

(3) The person is eligible under the grade placement policies of the school district through which the person seeks to obtain running start program high school credit to be in the eleventh or the twelfth grade.

(4) ~~((The person has not as of the beginning of the school year received a high school diploma or its equivalent, excluding a general education development certificate.~~

~~((S)))~~ The person has not as of the beginning of the school year earned the credits required for the award of a high school diploma by the school district through which the person seeks to obtain the award of running start program high school credit.

(5) The person has not as of the beginning of the school year received a high school diploma or its equivalent. Note: A general education development certificate is not considered to be the equivalent of a high school diploma for purposes of this subsection.

(6) The person's running start program enrollment to date is below the applicable eleventh or twelfth grade running start enrollment limitation established under WAC 392-169-055.

NEW SECTION

WAC 131-46-027 Running start student—Definition. For the purposes of this chapter and chapter 392-121 WAC. The term "running start student" means an eligible student:

- (1) Who is enrolled in the running start program in accordance with chapter;
- (2) Whose enrollment has not been suspended or terminated by withdrawal, transfer, suspension or expulsion; and
- (3) Who has participated in one or more instructional activities conducted by college staff (e.g., classroom or laboratory instruction, course work testing, post enrollment/registration academic counseling, and similar other instructional activities) on at least one college day during the current college quarter since the last enrollment count date.

NEW SECTION

WAC 131-46-029 College day—Definition. For the purposes of this chapter, the term "college day" means a day on which running start students are afforded the opportunity to be engaged in instructional activity which is planned and conducted by or under the supervision of college instructional staff, and on which day all or any portion of the enrolled running start students actually participate in such instructional activity.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-030 Full-time equivalent (~~(high school student)~~) (FTE) running start enrollment—Definition. ~~((The definition of a "fulltime equivalent high school student" for purposes of the generation of basic education allocation moneys and enrollment limitations under this chapter means and includes, each eligible student enrolled in a school district high school program as of the fourth school day of the school year (September 1 through August 31) and/or as of the first school day of eight subsequent months, for not less than twenty five hours each week, or five hours (three hundred minutes) each scheduled school day.))~~ For the purposes of this chapter and chapter 392-121 WAC, "full-time equivalent (FTE) running start enrollment" (i.e., college enrollment) means the FTE of running start students on an enrollment count date when each student's FTE is determined subject to the limitations of WAC 392-169-022, 392-169-055 and 392-169-115 as follows:

- (1) For college courses denominated in college quarter credits, the quotient of an eligible student's quarter credits of running start enrollment divided by fifteen up to a maximum of 1.00 FTE.

(2) For college courses not denominated in college quarter credits, the quotient of an eligible student's average hours of running start enrollment per week divided by twenty-five up to a maximum of 1.00 FTE. Hours of enrollment shall be determined pursuant to WAC 392-121-106 through 392-121-183.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-035 Annual average full-time equivalent (~~(community college and technical college student)~~) (AAFTE) running start enrollment—Definition. ~~((The definition of a "full-time equivalent community college student" and "full-time equivalent technical college student" for purposes of the generation of basic education allocation moneys and enrollment limitations under this chapter means and includes each eligible student enrolled in a community college or a technical college as of the fourth college day of the school year (September 1 through August 31) and/or as of the first college day of eight subsequent months, for not less than fifteen quarter credit hours.))~~ For purposes of this chapter and chapter 392-121 WAC, "annual average full-time equivalent (AAFTE) running start enrollment" means the sum of the AAFTE of all running start students for a school year when each running start student's AAFTE equals the sum of the student's running start FTE enrollment on the nine running start count dates divided by nine.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-040 (~~(Annual average full-time equivalent student)~~) Community and technical colleges—Definition. ~~((The definition of "annual average full-time equivalent student" for purposes of the generation of basic education allocation moneys and enrollment limitations under this chapter, means and includes the quotient obtained by dividing the annual total of an eligible student's full-time running start program enrollment counts reported under WAC 392-169-100 by nine.))~~ As used in this chapter, the terms "community college" and "technical college" means a Washington public two-year institution of higher education established under chapter 28B.50 RCW.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-045 (~~(Community college and technical college)~~) School district(s)—Definition. ~~((As used in this chapter, the terms "community college district" and "technical college district" mean the appointed board of trustees of a Washington public community college district or technical college districts and the territory, facilities, and educational programs under the jurisdiction of the board of trustees.))~~ As used in this chapter, the term "school district" means a Washington public school district established under Title 28A RCW.

ENROLLMENT RIGHTS, REQUIREMENTS AND LIMITATIONS

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-050 (~~Community and technical colleges—Definition.~~) **Enrollment—General requirements and conditions.** ((As used in this chapter, the terms "community college" and "technical college" mean a Washington public two-year institution of higher education under the jurisdiction of a community college district or technical college district.)) The enrollment of an eligible student in the running start program shall be governed as follows:

(1) An eligible student is responsible for applying for and pursuing admission to a community college or technical college on or before the deadline for enrollment established by the college.

(2) It shall not be necessary for an eligible student to obtain a release of attendance from his or her resident school district in order for the student to enroll in any community college or technical college.

(3) An eligible student is entitled to enroll in any community college and any technical college in the state for running start program purposes subject to each of the following conditions and limitations:

(a) Enrollment is limited to college level academic and college level vocational courses.

(b) Prior confirmation pursuant to WAC 392-169-050 by the school district through which the student seeks to obtain the award of running start program high school credit of the amount of high school credit to be awarded on or before the deadline for enrollment established by the college.

(c) Acceptance of the student by the community college or technical college subject to generally applicable admission and enrollment requirements and limitations established by the community college or technical college, including a determination that the student is competent to profit from the college level academic or vocational course(s) the student seeks to enroll in: *Provided*, That a technical college shall not deny admission or continued attendance to a person under twenty-two years of age with a disability based upon impaired competency or the creation of a disruptive atmosphere associated with the person's disability.

(d) The limitations upon the duration and extent of community college and technical college course enrollment set forth in WAC 392-169-055 and 392-169-057.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-055 (~~School district—Definition.~~) **Enrollment—High school credit—Prior confirmation.** ((As used in this chapter, the term "school district" means the elected board of directors of a Washington public school district and the territory, facilities, and educational programs under the jurisdiction of the board of directors.)) As a condition to an eligible student's enrollment in community college or technical college courses under this chapter, the eligibility of the courses which the student intends to take for the award of high school credit and the amount of such credit shall first be established, as follows:

(1) The student shall notify the school district through which the student seeks to obtain the award of running start program high school credit of the specific community college and technical college courses he or she intends to take and shall request confirmation of the amount of high school credit that will be awarded upon successful completion of the courses.

(2) The school district shall establish on a course by course basis the amount of high school required or elective credit, or combination thereof, that shall be awarded for each college course successfully completed by the student based upon the conversion rate set forth in WAC 180-51-050.

(3) If a college course is not comparable to a school district course required for high school graduation, the school district superintendent shall determine the amount of required high school credit which shall be awarded following consultation with a community college or technical college representative designated for that purpose. The difference between the amount of required credit and the amount of credit earned at the conversion rate set forth in WAC 180-51-050 shall be awarded as elective credit.

(4) Within twenty school district business days of a student's request for confirmation of credit the school district superintendent or other designated school district representative shall confirm in writing the amount of high school required or elective credit, or combination thereof which shall be awarded upon successful completion of the courses.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-060 (~~Annual notice to students and parents.~~) **Enrollment—Extent and duration.** ((Each school district shall annually provide general information respecting the running start program to all tenth and eleventh grade students of the school district and their parents and guardians.)) Running start program enrollment under this chapter is limited as follows:

(1) An eligible student who enrolls in grade eleven may enroll in a community or technical college while in the eleventh grade for no more than the course work equivalent to one academic year of enrollment as an annual average full-time equivalent running start student (i.e., three college quarters as a full-time equivalent community college student or nine months as a full-time equivalent technical college student).

(2) An eligible student who enrolls in grade twelve may enroll in a community or technical college while in the twelfth grade for no more than the course work equivalent to one academic year of enrollment as an annual average full-time equivalent running start student (i.e., three college quarters as a full-time equivalent community college student or nine months as a full-time technical college student).

(3) Enrollment in a community college or technical college is limited to the fall, winter and spring quarters.

(4) As a general rule a student's eligibility for running start program enrollment terminates at the end of the student's twelfth grade regular academic year, notwithstanding the student's failure to have enrolled in a community college or technical college to the full extent permitted by subsections (1) and (2) of this section: *Provided*, That a student who has failed to meet high school graduation

requirements as of the end of the student's twelfth grade regular academic year (September-June) due to the student's absence, the student's failure of one or more courses, or another similar reason may continue running start program enrollment for the sole and exclusive purpose of completing the particular course or courses required to meet high school graduation requirements, subject to the enrollment limitation established by subsection (2) of this section.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-065 Enrollment—(~~General requirements and conditions~~) **Extent and duration of combined high school and running start enrollment.** ((The enrollment of an eligible student in the running start program shall be governed as follows:

(1) An eligible student is responsible for applying for and pursuing admissions to a community college or technical college.

(2) It shall not be necessary for an eligible student to obtain a release of attendance from his or her resident school district in order for the student to enroll in any community college or technical college.

(3) An eligible student is entitled to enroll in any community college and any technical college in the state for running start program purposes subject to each of the following conditions and limitations:

(a) Enrollment is limited to college-level academic or vocational courses.

(b) Prior confirmation pursuant to WAC 392-169-065 by the school district through which the student seeks to obtain the award of running start program high school credit of the amount of high school credit to be awarded.

(c) Acceptance by the community college or technical college subject to generally applicable admission and enrollment requirements and limitations established by the community college or technical college, including a determination that the student is competent to profit from the college-level academic or vocational course(s) the student seeks to enroll in: *Provided*, That a technical college shall not deny admission or continued attendance to a student under twenty-two years of age with a disability based upon impaired competency or the creation of a disruptive atmosphere associated with the person's disability.

(d) The limitations upon the duration and extent of community college and technical college course enrollment set forth at WAC 392-169-070.

(4) An eligible student shall not be required by a community college or technical college to pay any tuition or other fee as a condition to the student's full participation in community college and technical college course work and related activities, or as a condition to the award of credit therefor: *Provided*, That requiring a student to provide and pay for consumable supplies, textbooks, and other materials to be retained by the student does not constitute the assessment of tuition or a fee for purposes of this subsection.

(5) Once an eligible student has been enrolled in a community college or technical college course or program, the student shall not be displaced by another student: *Provided*, That the student's continued enrollment in a course or program and enrollment in other courses or

programs shall be subject to generally applicable enrollment requirements and limitations established by the community college or technical college: *Provided further*, That a technical college shall not deny continued attendance to a student under twenty-two years of age with a disability based upon impaired competency or the creation of a disruptive atmosphere associated with the student's disability.)) Concurrent or combined regular high school program and running start program enrollment is governed as follows:

(1) An eligible student's concurrent enrollment in the regular high school program, and running start or college under this chapter, may exceed the equivalent of full-time enrollment: *Provided*, That a school district representative and a college representative may jointly limit a student's concurrent high school and college enrollment to not less than the equivalent of full-time enrollment for bona fide academic reasons based upon a joint evaluation of the student's capabilities and the total course work the student seeks to enroll in.

(2) For purposes of this section thirty hours per week shall constitute full-time high school or technical college enrollment, and fifteen quarter credit hours shall constitute full-time community college enrollment. Thus, for example, a student enrolled in the regular high school program for ten hours per week (one-third FTE) and in a community college for ten quarter credit hours (two-third FTE) is enrolled the equivalent of full-time.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-070 Enrollment—(~~High school credit—Prior confirmation~~) **Exception from tuition and fees.** ((As a condition to an eligible student's enrollment in community college or technical college courses under this chapter, the eligibility of the courses which the student intends to take for the award of high school credit and the amount of such credit shall first be established, as follows:

(1) The student shall notify the school district through which the student seeks to obtain the award of running start program high school credit of the specific community college and technical college courses he or she intends to take and shall request confirmation of the amount of high school credit that will be awarded upon successful completion of the courses.

(2) The school district shall establish in accordance with chapter 180-51 WAC the amount of high school required or elective credit that shall be awarded for each course successfully completed by the student.

(3) If no comparable course is offered by the school district, the school district superintendent shall determine the amount of high school credit which shall be awarded, if any, following consultation with a community college or technical college representative designated for that purpose.

(4) Within twenty school district business days of a student's request for confirmation of credit the school district superintendent or other designated school district representative shall confirm in writing the amount of high school credit which shall be awarded upon successful completion of the courses.)) A running start student shall not be required by a community college or technical college to pay any tuition or other fee as a condition to the student's full participation in

running start community college and technical college course work and related activities, or as a condition to the award of credit therefore: *Provided*, That requiring a running start student to provide and pay for consumable supplies, textbooks, and other materials to be retained by the student does not constitute the assessment of tuition or a fee for purposes of this subsection: *Provided further*, That this limitation on the assessment of tuition and fees does not apply to a student's college enrollment above and beyond running start program enrollment under this chapter (i.e., college enrollment in excess of one FTE and college summer quarter enrollment may be conditioned upon the payment of regular tuition and fees).

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-075 Enrollment—~~(Extent and duration)~~ **Continuing eligibility.** ~~((The extent and duration of an eligible student's enrollment in the running start program shall be limited as set forth in subsections (1) through (5) of this section: PROVIDED, That a school district and a community college district or technical college district may mutually agree to allow eligible students to exceed the one full-time equivalent student enrollment limitation established by subsection (1) so long as the enrollment claimed for basic education allocation purposes does not exceed the WAC 392-169-105 full-time equivalent student claim limitations.~~

~~(1) The combined enrollments of an eligible student in a high school and in a community college or technical college, or any combination thereof, under this chapter shall not concurrently exceed one full-time equivalent student. Accordingly, an eligible student must elect to enroll in high school for less than twenty five hours per week in order to concurrently enroll in a community college or technical college.~~

~~(2) A student who enrolls in grade eleven may enroll in a school district, community college, technical college, or any combination thereof, for no more than the course work equivalent to two regular academic years of attendance as an annual average full-time equivalent student, (i.e., six college quarters as a full-time equivalent community college or technical college student, two one hundred eighty day or more regular school years as a high school full-time equivalent student, or a combination thereof not to exceed two annual average full-time equivalent enrollment(s).~~

~~(3) A student who enrolls in grade twelve may enroll in a school district, community college, technical college, or any combination thereof, for no more than the course work equivalent to one regular academic year of attendance as an annual average full-time equivalent student.~~

~~(4) A student who becomes eligible during the regular school year for the award of a high school diploma by the school district through which the student seeks the award of running start program high school credit shall nevertheless continue subject to the restrictions of subsections (1) and (2) of this section to be eligible for enrollment in the running start program through the last day of the regular one hundred eighty day or more school year of the school district at which time the student's entitlement to enroll under this chapter shall terminate.~~

~~(5) A student whose twenty-first birthday occurs during the regular school year shall nevertheless continue subject to the restrictions of subsections (1) and (2) of this section to be eligible for enrollment in the running start program through the last day of the regular one hundred eighty day or more school year of the school district through which the student seeks to obtain running start program high school credit at which time the student's entitlement under this chapter to enroll shall terminate.)) Once an eligible student has been enrolled in a community college or technical college course or program, the student shall not be displaced by another student: *Provided*, That a student's continued enrollment in a course or program and enrollment in other courses or programs shall be subject to generally applicable enrollment requirements and limitations established by the community college or technical college: *Provided further*, That a technical college shall not deny continued attendance to a person under twenty-two years of age with a disability based upon impaired competency or the creation of a disruptive atmosphere associated with the person's disability.~~

MISCELLANEOUS

NEW SECTION

WAC 131-46-077 Annual notice to students and parents. Each school district shall annually provide general information respecting the running start program to all tenth and eleventh grade students of the school district and their parents and guardians.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-080 Academic standards and discipline—Jurisdiction of educational agencies. Each school district, community college district, and technical college district shall have and exercise exclusive jurisdiction over academic and discipline matters involving an eligible student's enrollment and participation in courses of, and the receipt of services and benefits from, the school district, the community college district, and the technical college district.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-085 Compliance with federal and state requirements of law—Special education program requirements—Necessary cooperative agreements. As a general rule, a school district, a community college district, and a technical college district are independently responsible for assuring compliance with federal and state requirements of law which are applicable to the provision of services and benefits by the school district, community college district, or technical college district under this chapter. If, however, the individualized education program of an eligible student established under chapter 392-171 WAC provides for such enrollment in a community college or a technical college, the school district which established the individualized education program shall also be responsible for assuring compliance with chapter 392-171 WAC in connection with the student's enrollment in the community college or technical college. School districts, community college districts, and technical

college districts shall enter into cooperative agreements as necessary to assure compliance with their respective duties under federal and state law, including agreements which substantiate a school district's claim to necessary federal and state special education funding.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-090 High school credit—Award by school districts. Upon confirmation by a community college or technical college of ~~((an eligible))~~ a student's successful completion of running start program courses, under this chapter, the school district shall record on the student's secondary school records and transcript the high school credit previously confirmed under WAC ~~((392-169-065))~~ 392-169-050, together with a notation that the courses were taken at a community college or technical college. ~~((See WAC 180-51-050 which provides for the conversion of college credits to high school credits at the rate of one high school credit for five college quarter or three college semester hour credits.))~~

FINANCIAL REPORTS, CLAIMS, AND PAYMENTS

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-095 Finance—Generation and apportionment of state ~~((and federal))~~ basic education moneys. (1) Each ~~((eligible))~~ running start student shall generate state ~~((and federal))~~ running start basic education moneys based upon the student's enrollment under this chapter in ~~((school district,))~~ community college~~((s,))~~ or technical college courses or programs, or any combination thereof, in accordance with the definitions of ~~((full-time equivalent))~~ FTE and AAFTE students set forth in WAC ~~392-169-025 ~~((through 392-169-035))~~ and 392-169-030~~, the enrollment and enrollment count limitations set forth in WAC ~~((392-169-070 and 392-169-105))~~ 392-169-055 and 392-169-115, rules of the superintendent of public instruction set forth ~~((at))~~ in Title 392 WAC which supplement and do not conflict with this chapter, and the Biennial Operating Appropriations Act.

(2) The superintendent of public instruction shall apportion running start basic education moneys to school districts reporting running start enrollments based upon AAFTE nonvocational and vocational running start enrollments and uniform state-wide rates for nonvocational and vocational students as determined pursuant to WAC 392-169-095.

(3) School districts may retain and expend for running start program counseling or other school district purposes up to seven percent of the running start basic education moneys apportioned by the superintendent of public instruction.

(4) School districts shall apportion each community and technical college district's share of running start basic education moneys received under this chapter to each college district on at least a modified quarterly basis on or before December 31, March 31, June 30, and August 31 each school year.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-100 ~~((Finance—Community college and technical college reporting requirements.)) Determination of uniform state-wide rates for nonvocational and vocational students.~~ ~~((Each community college and technical college that enrolls an eligible student under this chapter shall periodically report enrollment information as follows:~~

~~(1) Within ten calendar days of acceptance of the student, provide written notice to the student, superintendent of public instruction, and the school district through which the student seeks to obtain running start program high school credit of the courses and the credit hours or instructional/clock hours of enrollment.~~

~~(2) On a monthly basis, provide such enrollment information to the school district through which the student seeks to obtain the award of running start program high school credit as is necessary for the school district to claim basic education allocation moneys under this chapter and chapter 392-121 WAC including, but not limited to, notice of termination of the student's enrollment in a course due to absence, withdrawal, suspension, or expulsion.))~~ Prior to September 1 of each school year, the superintendent of public instruction shall calculate uniform state-wide rates for allocating state basic education moneys for nonvocational and vocational running start enrollment in consultation with state board for community and technical college staff. Calculations shall be based on assumptions used in the state Operating Appropriations Act for the school year. Rates shall equal the average basic education formula generated amount per nonvocational and vocational AAFTE ninth through twelfth grade student for the school year excluding enhancements provided for small schools.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-105 ~~((Finance—School district reporting requirements.)) Running start enrollment count dates.~~ ~~((Each school district through which an eligible student seeks to obtain running start program high school credit shall make all reports to the superintendent of public instruction in accordance with this chapter and chapter 392-121 WAC as are necessary to substantiate the district's entitlement to the receipt of basic education allocation moneys based upon the student's high school, community college, and technical college enrollment under this chapter. Eligible students shall be so reported as full-time equivalent students, or fractions thereof, in accordance with the definitions of full-time equivalent students set forth at WAC 392-169-025 through 392-169-035.))~~ Enrollment count dates for the running start program shall be the first college day of each of the months of October through June.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-110 ~~((Finance—Limitations on enrollment counts.)) Finance—Community college and technical college reporting requirements.~~ ~~((No eligible student enrolled in a high school, community college, technical~~

college, or any combination thereof, reported under WAC 392-169-095 and 392-169-100 shall be counted as more than one full-time equivalent student for any single month or more than one annual average full-time equivalent student in any school year. Provided, That an eligible student who enrolls in grade eleven and elects to enroll in a summer community college or technical college program that school year in order to accelerate his or her high school graduation may be counted as more than one annual average full-time equivalent student for that school year. Provided further, That the student shall not be counted the succeeding school year as more than one annual average full-time equivalent student less that portion of the prior school year count which exceeded one annual average full-time equivalent student count.) Each community college and technical college that enrolls an eligible student under this chapter shall periodically report enrollment information as follows:

(1) Within ten calendar days of enrollment of the student, provide written notice to the student, and the school district through which the student seeks to obtain running start program high school credit of the courses and the credit hours or instructional/clock hours of enrollment.

(2) After each monthly count date the college shall report running start student enrollments by the eighth day of the month to the school district through which the student seeks to obtain the award of running start program high school credit as is necessary for the school district to claim state running start basic education program moneys under this chapter and chapter 392-121 WAC.

(3) The monthly report shall be prepared in accordance with instructions provided by the superintendent of public instruction, and shall include, but not necessarily be limited to, the following:

(a) The total number of enrolled running start students on the count date; (see the definitions of an eligible "running start student" in WAC 131-46-025.)

(b) Total nonvocational running start FTE enrollment;

(c) Total vocational running start FTE enrollment; and

(d) The name of each running start student and the nonvocational and vocational running start FTE reported for the student.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-115 ((Finance—Apportionment and payment of basic education allocation moneys to community college districts and technical college districts.)) Finance—School district reporting requirements. ((School districts and community or technical college districts may enter into agreements which provide for and govern the apportionment and payment of basic education allocation moneys generated by running start program students. In the absence of such an agreement to the contrary, the school district through which an eligible student seeks to obtain running start program high school credit shall apportion such moneys and make payment on not less than a quarterly basis to the community college or technical college district serving the student under this chapter as follows:

(1) If an eligible student is enrolled exclusively in a community college or a technical college, all basic education

moneys generated by the student shall be paid to the community college district or technical college of enrollment. Provided, That in such cases the school district through which the student seeks to obtain running start program high school credit may retain up to five percent of such moneys to offset costs incurred in evaluating and granting high school credit and processing basic education allocation claims and payments.

(2) If an eligible student is enrolled simultaneously in the school district through which the student seeks to obtain running start program high school credit and a community college or a technical college, the school district through which the student seeks such high school credit shall retain that portion of the basic education allocation moneys generated by the student based upon the student's high school enrollment, and shall pay to the community college district or technical college district the balance consisting of that portion of such moneys generated by the student based upon the student's community college or technical college enrollment (e.g., in the case of an eligible student enrolled five hours a week in a high school (one-fifth of an FTE) and five quarter-credit hours in a community college (one-third of an FTE), the school district would retain an amount equal to one-fifth of a full basic education allocation and pay to the community college district an amount equal to one-third of a full basic education allocation).

(3) Notwithstanding subsections (1) and (2) of this section, small high school districts operating no more than two high schools with enrollments of less than three hundred average annual full-time equivalent students and college districts shall negotiate in good faith with the objective of mutually establishing the reasonable amount payable to a college district. If good faith negotiations fail to establish agreement, the amount payable by such a small high school district to a college district shall be the incremental amount per full-time equivalent community college or technical college student that is or would be generated for student enrollments in excess of sixty annual full-time equivalent students.) Each school district through which a running start student seeks to obtain running start program high school credit shall make all reports to the superintendent of public instruction in accordance with this chapter and chapter 392-121 WAC as are necessary to substantiate the district's entitlement to the receipt of moneys based upon the student's community college and technical college enrollment under this chapter. Running start students shall be so reported as full-time equivalent vocational and nonvocational students, or fractions thereof, in accordance with the definitions of full-time equivalent student set forth in WAC 392-169-025.

AMENDATORY SECTION (Amending WSR 93-01-014, filed 12/4/92, effective 1/4/93)

WAC 131-46-120 ((Current and future community college and technical college enrollment alternatives not affected.)) Finance—Limitations on enrollment counts. ((This chapter shall not affect the alternative enrollment, and arrangements therefor, of a secondary student in a community college or technical college pursuant to a contractual agreement entered into pursuant to RCW 28B.50.530 (inter school district/college district cooperative programs) and chapter 39.34 RCW (the Interlocal Cooperation Act). See

~~WAC 392-121-183 (contracting with an educational institution other than a school district):~~ No running start student enrolled in a community college or technical college, or any combination thereof, reported under WAC 392-169-105 and 392-169-110 shall exceed one full-time running start equivalent student on any enrollment count date or more than one annual average full-time equivalent student in any school year.

NEW SECTION

WAC 131-46-125 Finance—Documentation requirements. School districts and colleges shall maintain documentation supporting running start student enrollment and state funding claims, inclusive of the following:

(1) Colleges documentation shall show each student's college enrollment status on each enrollment count date and evidence of the student's participation in college instruction or activities on at least one day since the last enrollment count date. See WAC 392-169-022(3) for a description of required "instructional activities."

(2) School district documentation shall show each student's school district enrollment status on each enrollment count date and evidence that the student is earning high school graduation credit for running start enrollment reported for state funding.

ALTERNATIVE CONTRACTUAL ARRANGEMENTS

NEW SECTION

WAC 131-46-130 Current and future community college and technical college enrollment alternatives not affected. This chapter shall not affect the alternative enrollment, and arrangements therefor, of a secondary student in a community college or technical college pursuant to a contractual agreement entered into pursuant to RCW 28B.50.530 (interschool district/college district cooperative programs) and chapter 39.34 RCW (the Interlocal Cooperation Act). See WAC 392-121-183 (Contracting with an educational institution other than a school district).

**WSR 94-01-114
PROPOSED RULES
SUPERINTENDENT OF
PUBLIC INSTRUCTION**
[Filed December 17, 1993, 9:17 a.m.]

Original Notice.

Title of Rule: Running start program rules.

Purpose: Establish policies and procedures governing the running start program whereby high school students attend community college and earn both high school and college credit.

Statutory Authority for Adoption: RCW 28A.600.390, 28A.150.260 and [28A.150].290.

Statute Being Implemented: RCW 28A.600.300 through 28A.600.380.

Summary: Same as above.

Name of Agency Personnel Responsible for Drafting: Richard M. Wilson, Old Capitol Building, Olympia, 753-

2298; Implementation: Tom Case and Barbara Mertens, Old Capitol Building, Olympia, 753-6708; and Enforcement: David Moberly and John Pearson, Old Capitol Building, Olympia, 753-6742.

Name of Proponent: Superintendent of Public Instruction, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Updates current running start program rules which include definitions; enrollment rights, requirements and limitations; financial reports, claims and payments; and various miscellaneous provisions. Some of the more significant revisions/effects include, but are not necessarily limited to: Clarification of the award of high school credit; clarification and limitation of the extent and timing of college enrollment/attendance; relaxation of the existing limitation upon combined high school and college enrollment; clarification of allowable college tuition and fees; and significant revisions of finance provisions implementing 1993 legislation providing for the separate calculation and allocation of a uniform rate of state funding for running start program purposes.

Proposal Changes the Following Existing Rules: Same as above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Old Capitol Building, Wanamaker Conference Room, 2nd Floor, 600 South Washington Street, Olympia, WA 98504, on January 25, 1994, at 9:00 a.m.

Submit Written Comments to: Richard M. Wilson, P.O. Box 47200, Olympia, WA 98504-7200, by January 25, 1994.

Date of Intended Adoption: January 27, 1994.

December 17, 1993
Judith A. Billings
Superintendent of
Public Instruction

**Chapter 392-169 WAC
SPECIAL SERVICE PROGRAMS RUNNING START
PROGRAM**

NEW SECTION

WAC 392-169-005 Authority. The authority for this chapter is RCW 28A.600.390, which authorizes the superintendent of public instruction, the state board for community and technical colleges, and the higher education coordinating board to jointly develop and adopt rules governing RCW 28A.600.300 through 28A.600.380, 28A.150.260 and 28A.150.290 which authorize the superintendent of public instruction to adopt rules governing basic education allocation moneys. The rules set forth in this chapter have been jointly developed and agreed upon by the three agencies, and adopted and codified in separate chapters of the Washington Administrative Code by each of the three agencies. The rules may be modified only by agreement of all three agencies.

NEW SECTION

WAC 392-169-010 Purpose. The purpose of this chapter is to set forth policies and procedures governing the running start program.

DEFINITIONS OF TERMSNEW SECTION

WAC 392-169-015 Running start program—Definition. As used in this chapter, the terms "running start" and "running start program" mean the part-time to full-time equivalent enrollment of eligible eleventh and twelfth grade high school students in a community college or technical college for the purpose of earning at least high school credit to be awarded by a school district, and such additional college level academic and college level vocational credit as may be awarded by the community college or technical college.

NEW SECTION

WAC 392-169-020 Eligible student—Definition. As used in this chapter, the term "eligible student" means any person, including a person who is otherwise attending a private school or receiving home-based instruction, who meets each of the following conditions:

(1) The person is under the age of twenty-one years of age as of September 1 of the school year.

(2) The person is eligible by reason of his or her residence or other criterion established by law to enroll in the school district through which the person seeks to obtain the award of running start program high school credit. See RCW 28A.175.090 ("at risk" students), RCW 28A.225.160 (residents of a school district), RCW 28A.225.170 (residents of the United States and Indian Reservations), RCW 28A.225.210 (residents of "nonhigh" school districts), and RCW 28A.225.220 ("choice" students). Note: A running start student who changes his or her school district of residence, following enrollment in running start, solely for the purpose of attending college under this chapter shall be deemed to have retained his or her residence in the school district of initial running start enrollment for high school graduation, funding and other purposes under this chapter.

(3) The person is eligible under the grade placement policies of the school district through which the person seeks to obtain running start program high school credit to be in the eleventh or the twelfth grade.

(4) The person has not as of the beginning of the school year earned the credits required for the award of a high school diploma by the school district through which the person seeks to obtain the award of running start program high school credit.

(5) The person has not as of the beginning of the school year received a high school diploma or its equivalent. Note: A general education development certificate is not considered to be the equivalent of a high school diploma for purposes of this subsection.

(6) The person's running start program enrollment to date is below the applicable eleventh or twelfth grade running start enrollment limitations established under WAC 392-169-055.

NEW SECTION

WAC 392-169-022 Running start student—Definition. For the purposes of this chapter and chapter 392-121 WAC, the term "running start student" means an eligible student:

(1) Who is enrolled in the running start program in accordance with this chapter;

(2) Whose enrollment has not been suspended or terminated by withdrawal, transfer, suspension or expulsion; and

(3) Who has participated in one or more instructional activities conducted by college staff (e.g., classroom or laboratory instruction, course work testing, post enrollment/registration academic counseling, and similar other instructional activities) on at least one college day during the current college quarter since the last enrollment count date.

NEW SECTION

WAC 392-169-023 College day—Definition. For the purposes of this chapter, the term "college day" means a day on which running start students are afforded the opportunity to be engaged in instructional activity which is planned and conducted by or under the supervision of college instructional staff, and on which day all or any portion of the enrolled running start students actually participate in such instructional activity.

NEW SECTION

WAC 392-169-025 Full-time equivalent (FTE) running start enrollment—Definition. For the purposes of this chapter and chapter 392-121 WAC, "full-time equivalent (FTE) running start enrollment" (i.e., college enrollment) means the FTE of running start students on an enrollment count date when each student's FTE is determined subject to the limitations of WAC 392-169-022, 392-169-055 and 392-169-115 as follows:

(1) For college courses denominated in college quarter credits, the quotient of an eligible student's quarter credits of running start enrollment divided by fifteen up to a maximum of 1.00 FTE.

(2) For college courses not denominated in college quarter credits, the quotient of an eligible student's average hours of running start enrollment per week divided by twenty-five up to a maximum of 1.00 FTE. Hours of enrollment shall be determined pursuant to WAC 392-121-106 through 392-121-183.

NEW SECTION

WAC 392-169-030 Annual average full-time equivalent (AAFTE) running start enrollment—Definition. For purposes of this chapter and chapter 392-121 WAC, "annual average full-time equivalent (AAFTE) running start enrollment" means the sum of the AAFTE of all running start students for a school year when each running start student's AAFTE equals the sum of the student's running start FTE enrollment on the nine running start count dates divided by nine.

NEW SECTION

WAC 392-169-035 Community and technical colleges—Definition. As used in this chapter, the terms "community college" and "technical college" means a Washington public two-year institution of higher education established under chapter 28B.50 RCW.

NEW SECTION

WAC 392-169-040 School district—Definition. As used in this chapter, the term "school district" means a Washington public school district established under Title 28A RCW.

ENROLLMENT RIGHTS, REQUIREMENTS AND LIMITATIONS

NEW SECTION

WAC 392-169-045 Enrollment—General requirements and conditions. The enrollment of an eligible student in the running start program shall be governed as follows:

(1) An eligible student is responsible for applying for and pursuing admission to a community college or technical college on or before the deadline for enrollment established by the college.

(2) It shall not be necessary for an eligible student to obtain a release of attendance from his or her resident school district in order for the student to enroll in any community college or technical college.

(3) An eligible student is entitled to enroll in any community college and any technical college in the state for running start program purposes subject to each of the following conditions and limitations:

(a) Enrollment is limited to college level academic and college level vocational courses.

(b) Prior confirmation pursuant to WAC 392-169-050 by the school district through which the student seeks to obtain the award of running start program high school credit of the amount of high school credit to be awarded on or before the deadline for enrollment established by the college.

(c) Acceptance of the student by the community college or technical college subject to generally applicable admission and enrollment requirements and limitations established by the community college or technical college, including a determination that the student is competent to profit from the college level academic or vocational course(s) the student seeks to enroll in: *Provided*, That a technical college shall not deny admission or continued attendance to a person under twenty-two years of age with a disability based upon impaired competency or the creation of a disruptive atmosphere associated with the person's disability.

(d) The limitations upon the duration and extent of community college and technical college course enrollment set forth in WAC 392-169-055 and 392-169-057.

NEW SECTION

WAC 392-169-050 Enrollment—High school credit—Prior confirmation. As a condition to an eligible student's enrollment in community college or technical college courses under this chapter, the eligibility of the

courses which the student intends to take for the award of high school credit and the amount of such credit shall first be established, as follows:

(1) The student shall notify the school district through which the student seeks to obtain the award of running start program high school credit of the specific community college and technical college courses he or she intends to take and shall request confirmation of the amount of high school credit that will be awarded upon successful completion of the courses.

(2) The school district shall establish on a course by course basis the amount of high school required or elective credit, or combination thereof, that shall be awarded for each college course successfully completed by the student based upon the conversion rate set forth in WAC 180-51-050.

(3) If a college course is not comparable to a school district course required for high school graduation, the school district superintendent shall determine the amount of required high school credit which shall be awarded following consultation with a community college or technical college representative designated for that purpose. The difference between the amount of required credit and the amount of credit earned at the conversion rate set forth in WAC 180-51-050 shall be awarded as elective credit.

(4) Within twenty school district business days of a student's request for confirmation of credit the school district superintendent or other designated school district representative shall confirm in writing the amount of high school required or elective credit, or combination thereof, which shall be awarded upon successful completion of the courses.

NEW SECTION

WAC 392-169-055 Enrollment—Extent and duration of running start enrollment. Running start program enrollment under this chapter is limited as follows (and as may be further limited for academic reasons under WAC 392-169-057):

(1) An eligible student who enrolls in grade eleven may enroll in a community or technical college while in the eleventh grade for no more than the course work equivalent to one academic year of enrollment as an annual average full-time equivalent running start student (i.e., three college quarters as a full-time equivalent community college student or nine months as a full-time equivalent technical college student).

(2) An eligible student who enrolls in grade twelve may enroll in a community or technical college while in the twelfth grade for no more than the course work equivalent to one academic year of enrollment as an annual average full-time equivalent running start student (i.e., three college quarters as a full-time equivalent community college student or nine months as a full-time technical college student).

(3) Enrollment in a community college or technical college is limited to the fall, winter and spring quarters.

(4) As a general rule a student's eligibility for running start program enrollment terminates at the end of the student's twelfth grade regular academic year, notwithstanding the student's failure to have enrolled in a community college or technical college to the full extent permitted by subsections (1) and (2) of this section: *Provided*, That a student who has failed to meet high school graduation

requirements as of the end of the student's twelfth grade regular academic year (September-June) due to the student's absence, the student's failure of one or more courses, or another similar reason may continue running start program enrollment for the sole and exclusive purpose of completing the particular course or courses required to meet high school graduation requirements, subject to the enrollment limitation established by subsection (2) of this section.

NEW SECTION

WAC 392-169-057 Enrollment—Extent and duration of combined high school and running start enrollment. Concurrent or combined regular high school program and running start program enrollment is governed as follows:

(1) An eligible student's concurrent enrollment in the regular high school program, and running start or college under this chapter, may exceed the equivalent of full-time enrollment: *Provided*, That a designated school district representative and a designated college representative may jointly limit a student's concurrent high school and college enrollment to not less than the equivalent of full-time enrollment for bona fide academic reasons based upon a joint evaluation of the student's capabilities and the total course work the student seeks to enroll in.

(2) For purposes of this section thirty hours per week shall constitute full-time high school or technical college enrollment, and fifteen quarter credit hours shall constitute full-time community college enrollment. Thus, for example, a student enrolled in the regular high school program for ten hours per week (one-third FTE) and in a community college for ten quarter credit hours (two-thirds FTE) is enrolled the equivalent of full-time.

NEW SECTION

WAC 392-169-060 Enrollment—Exception from tuition and fees. A running start student shall not be required by a community college or technical college to pay any tuition or other fee as a condition to the student's full participation in running start community college and technical college course work and related activities, or as a condition to the award of credit therefore: *Provided*, That requiring a running start student to provide and pay for consumable supplies, textbooks, and other materials to be retained by the student does not constitute the assessment of tuition or a fee for purposes of this subsection: *Provided further*, That this limitation on the assessment of tuition and fees does not apply to a student's college enrollment above and beyond running start program enrollment under this chapter (i.e., college enrollment in excess of one FTE and college summer quarter enrollment may be conditioned upon the payment of regular tuition and fees).

NEW SECTION

WAC 392-169-065 Enrollment—Continuing eligibility. Once an eligible student has been enrolled in a community college or technical college course or program, the student shall not be displaced by another student: *Provided*, That a student's continued enrollment in a course or program and enrollment in other courses or programs shall be subject to generally applicable enrollment requirements and limita-

tions established by the community college or technical college: *Provided further*, That a technical college shall not deny continued attendance to a person under twenty-two years of age with a disability based upon impaired competency or the creation of a disruptive atmosphere associated with the person's disability.

MISCELLANEOUS REQUIREMENTS

NEW SECTION

WAC 392-169-070 Annual notice to students and parents. Each school district shall annually provide general information respecting the running start program to all tenth and eleventh grade students of the school district and their parents or guardians.

NEW SECTION

WAC 392-169-075 Academic standards and discipline—Jurisdiction of educational agencies. Each school district, community college district, and technical college district shall have and exercise exclusive jurisdiction over academic and discipline matters involving a student's enrollment and participation in courses of, and the receipt of services and benefits from, the school district, the community college district, or the technical college district.

NEW SECTION

WAC 392-169-080 Compliance with federal and state requirements of law—Special education program requirements—Necessary cooperative agreements. As a general rule, a school district, a community college district, and a technical college district are independently responsible for assuring compliance with federal and state requirements of law which are applicable to the provision of services and benefits by the school district, community college district, or technical college district under this chapter. If, however, the individualized education program of a student established under chapter 392-171 WAC provides for such enrollment in a community college or a technical college, the school district which established the individualized education program shall also be responsible for assuring compliance with chapter 392-171 WAC in connection with the student's enrollment in the community college or technical college. School districts, community college districts, and technical college districts shall enter into cooperative agreements as necessary to assure compliance with their respective duties under federal and state law, including agreements which substantiate a school district's claim to necessary federal and state special education funding.

NEW SECTION

WAC 392-169-085 High school credit—Award by school districts. Upon confirmation by a community college or technical college of a student's successful completion of running start program courses under this chapter, the school district shall record on the student's secondary school records and transcript the high school credit previously confirmed under WAC 392-169-050, together with a notation that the courses were taken at a community college or technical college.

FINANCIAL REPORTS, CLAIMS AND PAYMENTS

NEW SECTION

WAC 392-169-090 Finance—Generation and apportionment of state basic education moneys. (1) Each running start student shall generate state running start basic education moneys based upon the student's enrollment under this chapter in community college or technical college courses or programs, or any combination thereof, in accordance with the definitions of FTE and AAFTE students set forth in WAC 392-169-025 and 392-169-030, the enrollment and enrollment count limitations set forth in WAC 392-169-055 and 392-169-115, rules of the superintendent of public instruction set forth in Title 392 WAC which supplement and do not conflict with this chapter, and the Biennial Operating Appropriations Act.

(2) The superintendent of public instruction shall apportion running start basic education moneys to school districts reporting running start enrollments based upon AAFTE nonvocational and vocational running start enrollments and uniform state-wide rates for nonvocational and vocational students as determined pursuant to WAC 392-169-095.

(3) School districts may retain and expend for running start program counseling or other school district purposes up to seven percent of the running start basic education moneys apportioned by the superintendent of public instruction.

(4) School districts shall apportion each community and technical college district's share of running start basic education moneys received under this chapter to each college district on at least a modified quarterly basis on or before December 31, March 31, June 30, and August 31 each school year.

NEW SECTION

WAC 392-169-095 Determination of uniform state-wide rates for nonvocational and vocational students. Prior to September 1 of each school year, the superintendent of public instruction shall calculate estimated uniform state-wide rates for allocating state basic education moneys for nonvocational and vocational running start student enrollment in consultation with state board for community and technical college staff. Calculations shall be based on assumptions used in the state Operating Appropriations Act for the school year. Rates shall equal the estimated average basic education formula generated amount per nonvocational and vocational AAFTE ninth through twelfth grade student for the school year excluding enhancements provided for small schools.

NEW SECTION

WAC 392-169-100 Running start enrollment count dates. Enrollment count dates for the running start program shall be the first college day of each of the months of October through June.

NEW SECTION

WAC 392-169-105 Finance—Community college and technical college reporting requirements. Each community college and technical college that enrolls an eligible student under this chapter shall periodically report enrollment information as follows:

(1) Within ten calendar days of enrollment of the student, provide written notice to the student, and the school district through which the student seeks to obtain running start program high school credit of the courses and the credit hours or instructional/clock hours of enrollment.

(2) After each monthly count date the college shall report running start student enrollments by the eighth day of the month to the school district through which the student seeks to obtain the award of running start program high school credit as is necessary for the school district to claim state running start basic education program moneys under this chapter and chapter 392-121 WAC.

(3) The monthly report shall be prepared in accordance with instructions provided by the superintendent of public instruction, and shall include, but not necessarily be limited to, the following:

(a) The total number of enrolled running start students on the count date (see the definition of a "running start student" in WAC 392-169-023);

(b) Total nonvocational running start FTE enrollment;

(c) Total vocational running start FTE enrollment; and

(d) The name of each running start student and the nonvocational and vocational running start FTE reported for the student.

NEW SECTION

WAC 392-169-110 Finance—School district reporting requirements. Each student district through which a running start student seeks to obtain running start program high school credit shall make all reports to the superintendent of public instruction in accordance with this chapter and chapter 392-121 WAC as are necessary to substantiate the district's entitlement to the receipt of moneys based upon the student's community college and technical college enrollment under this chapter. Running start students shall be so reported as full-time equivalent vocational and nonvocational students, or fractions thereof, in accordance with the definition of full-time equivalent students set forth in WAC 392-169-025.

NEW SECTION

WAC 392-169-115 Finance—Limitations on enrollment counts. No running start student enrolled in a community college or technical college, or any combination thereof, reported under WAC 392-169-105 and 392-169-110 shall exceed one full-time equivalent running start student on any enrollment count date or more than one annual average full-time equivalent student in any school year.

NEW SECTION

WAC 392-169-120 Finance—Documentation requirements. School districts and colleges shall maintain documentation supporting running start student enrollment and state funding claims, including the following:

(1) Colleges documentation shall show each student's college enrollment status on each enrollment count date and evidence of the student's participation in college instructional activities conducted by college staff on at least one college day since the last enrollment count date. See WAC 392-169-022(3) for a description of required "instructional activities."

(2) School district documentation shall show each student's school district enrollment status on each enrollment count date and evidence that the student is earning high school graduation credit for running start enrollment reported for state funding.

ALTERNATIVE CONTRACTUAL ARRANGEMENTS

NEW SECTION

WAC 392-169-125 Current and future community college and technical college enrollment alternatives not affected. This chapter shall not affect the alternative enrollment, and arrangements, therefor, of a secondary student in a community college or technical college pursuant to a contractual agreement entered into pursuant to RCW 28B.50.530 (interschool district/college district cooperative programs) and chapter 39.34 RCW (the Interlocal Cooperation Act). See WAC 392-121-183 (Contracting with an educational institution other than a school district).

**WSR 94-01-118
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
(Public Assistance)
[Filed December 17, 1993, 2:25 p.m.]**

Original Notice.

Title of Rule: WAC 388-29-295 Standards of assistance—Supplemental security income (SSI) program.

Purpose: Updates the social security supplemental income (SSI) amounts, effective January 1, 1994. The community services office (CSO) staff use this income information to determine the amount of food stamps a client is eligible to receive.

Statutory Authority for Adoption: RCW 74.04.050.

Statute Being Implemented: RCW 74.04.050.

Summary: The CSOs use this income information to determine the amount of food stamps a client is eligible to receive.

Reasons Supporting Proposal: SSI will increase by 2.6% effective January 1, 1994.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Betty Brinkman, Division of Income Assistance, 438-8309.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 17, 1993

Dewey Brock, Chief

Office of Vendor Services

Administrative Services Division

AMENDATORY SECTION (Amending Order 3506, filed 1/27/93, effective 2/27/93)

WAC 388-29-295 Standards of assistance—Supplemental Security Income (SSI) program. Effective January 1, ~~(1993)~~ 1994, the standards of SSI assistance paid to an eligible individual and couple are:

| | Federal SSI Standard | State Benefit Supplement |
|---|--|--------------------------------|
| Area I: King, Pierce, Snohomish, Thurston, and Kitsap Counties | | |
| Living alone | | |
| Individual | (\$462.00) <u>\$434.00</u> \$474.00 <u>\$446.00</u> | 28.00 |
| Individual with one essential person | (673.00—651.00) <u>691.00</u> <u>669.00</u> | 22.00 |
| Couples: | | |
| Both eligible | (674.00—652.00) <u>691.00</u> <u>669.00</u> | 22.00 |
| Includes one essential person | (673.00—651.00) <u>691.00</u> <u>669.00</u> | 22.00 |
| Includes ineligible spouse | (626.00—434.00) <u>638.00</u> <u>446.00</u> | 192.00 |
| Area II: All Counties Other Than the Above | | |
| Living alone | | |
| Individual | (\$441.55) <u>\$434.00</u> <u>\$453.55</u> <u>\$446.00</u> | 7.55 |
| Individual with one essential person | (651.00—651.00) <u>669.00</u> <u>669.00</u> | 0 |
| Couples: | | |
| Both eligible | (652.00—652.00) <u>669.00</u> <u>669.00</u> | 0 |
| Includes one essential person | (651.00—651.00) | 0 |

| | | |
|--|---|--------|
| | <u>669.00</u> <u>669.00</u> | |
| Includes ineligible spouse | (594.15 434.00) | 160.15 |
| | <u>606.15</u> <u>446.00</u> | |
| Areas I and II: Shared living (all counties) | | |
| Individual | (295.15 289.34) | 5.81 |
| | <u>\$303.15</u> <u>\$297.34</u> | |
| Individual with one essential person | (440.30 434.00) | 6.30 |
| | <u>452.30</u> <u>446.00</u> | |
| Couples: | | |
| Both eligible | (440.97 434.67) | 6.30 |
| | <u>452.30</u> <u>446.00</u> | |
| Includes one essential person | (440.30 434.00) | 6.30 |
| | <u>452.30</u> <u>446.00</u> | |
| Includes ineligible spouse | (408.97 289.34) | 119.63 |
| | <u>416.97</u> <u>297.34</u> | |

WSR 94-01-125
WITHDRAWAL OF PROPOSED RULES
DEPARTMENT OF PERSONNEL
 [Filed December 17, 1993, 4:35 p.m.]

The Department of Personnel hereby withdraws proposed new rule WAC 356-56-020 filed with your office on July 23, 1993, as a part of WSR 93-16-019 and continued as WSR 93-19-146, 93-22-086, and 93-23-067.

If you have any questions regarding the above withdrawn notice, please contact Sandra Brownrigg at 753-0381.

Dennis Karras
 Director

WSR 94-01-127
PROPOSED RULES
OFFICE OF MINORITY AND
WOMEN'S BUSINESS ENTERPRISES
 [Filed December 20, 1993, 10:38 a.m.]

Original Notice.

Title of Rule: WAC 326-30-051 Counting participation toward agency and educational institution goals; and 326-40-060 Determining compliance and counting participation at time of award.

Purpose: To implement RCW 39.19.030.

Statutory Authority for Adoption: RCW 39.19.030(7).
 Statute Being Implemented: RCW 39.19.030.

Summary: The proposed changes to these chapters will result in more efficient administration of the state's program for maximizing opportunities for minority and women owned and controlled businesses in public works and state procurement.

Reasons Supporting Proposal: State agencies and educational institutions need clear guidance on their authority and responsibilities for the implementation of the provisions in chapter 39.19 RCW.

Name of Agency Personnel Responsible for Drafting: Juan Huey-Ray, 406 South Water, Olympia, WA, 586-1228; Implementation and Enforcement: James A. Medina, 406 South Water, Olympia, WA, 753-9679.

Name of Proponent: Office of Minority and Women's Business Enterprises, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: These rules provide guidance to state agencies and educational institutions on the appropriate procedures for contracting and procurement in accordance with the provisions of chapter 39.19 RCW. Their purpose is to increase opportunities for minority and women owned and controlled businesses and to provide a systematic and universal process for collecting data on the participation of such businesses in state contracting and procurement. This amendment removes an obsolete date related to a procedural change which was not implemented and amends language to ensure that subcontractors owned by minority women and certified combinations are counted.

Proposal Changes the Following Existing Rules: Revises policy on counting participation toward individual contract goals and toward annual goal attainment by state agencies and educational institutions.

No small business economic impact statement required by chapter 19.85 RCW.

Hearing Location: Office of Minority and Women's Business Enterprises, 406 South Water, Olympia, WA 98504, on January 25, 1994, at 1:30 p.m.

Submit Written Comments to: Office of Minority and Women's Business Enterprises, 406 South Water, Olympia, WA 98504, by January 24, 1994.

Date of Intended Adoption: February 25, 1994.

December 16, 1993
 James A. Medina
 Director

AMENDATORY SECTION (Amending WSR 92-20-124, filed 10/7/92, effective 11/7/92)

WAC 326-30-051 Counting participation toward agency and educational institution goals. (1) The office will count an agency's or educational institution's expenditures to certified businesses toward goal attainment only when the work performed by the business on a contract is within the scope of work included in the standard industrial classification (SIC) codes under which the business is listed in the directory of certified businesses published by, or in the records of, the office.

(2) Prime contractors and consultants.

(a) Where a certified business performs a commercially useful function in the work of the contract, the dollar value of expenditures to the business for such work will be counted toward the agency or educational institution's goal attainment according to the certification status of the business.

(b) Where a certified business is a partner in a joint venture, and the business performs a commercially useful function in the work of the contract, only the dollar value of expenditures to the certified business which is commensurate with its interest in the joint venture will be counted toward

the agency or educational institution's goal attainment according to the certification status of the business.

(3) Subcontractors and subconsultants.

(a) Where a certified business performs a commercially useful function in the work of a subcontract, the dollar value of expenditures to the business for such work will be counted toward the agency or educational institution's goal attainment according to the certification status of the business.

(b) Where a certified business is a subcontractor on a heavy construction, highway, or street construction project, expenditures to the certified business shall not be counted toward goal attainment if the business subcontracts more than twenty-five percent of the total amount of its own subcontract to a noncertified business.

(4) Suppliers.

(a) Where a certified business is the manufacturer or a regular dealer of goods or materials required under a contract, one hundred percent of the dollar value of expenditures to the business for such materials or supplies will be counted toward the agency or educational institution's goal attainment according to the certification status of the business.

(b) Where a certified business is a broker or a packager of goods or materials required under a contract, effective July 1, 1993, twenty one hundred percent of the dollar value of expenditures to the business will be counted toward the agency or educational institution's goal attainment according to the certification status of the business.

(5) Where a certified business is a hauler, trucker, or delivery service, but is not also a regular dealer or the manufacturer of the goods or materials required on the job site, the dollar value of expenditures to the business for fees charged to deliver the goods or materials required will be counted toward the agency or educational institution's goal attainment according to the certification status of the business.

(6) Where a certified business provides bonds or insurance specifically required for the performance of a contract, the dollar value of expenditures to the business for the fee or commission charged for providing the bonds or insurance will be counted toward the agency or educational institution's goal attainment according to the certification status of the business.

(7) Where a certified business is a travel agency, shipping or transportation broker, or other business performing similar functions, twenty percent of the dollar value of expenditures to the business to provide a bona fide service in the procurement of transportation will be counted toward the agency or educational institution's goal attainment according to the certification status of the business.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending WSR 92-20-124, filed 10/7/92, effective 11/7/92)

WAC 326-40-060 Determining compliance and counting participation at time of award bid opening. (1) The participation of a certified business at any level of a contract or procurement may be counted when the work to

~~be performed is a commercially useful function within the context of the contract or procurement. If, at the time of award, the business is projected to perform work classified in SIC codes different from those listed for the business in the records of the office, the business may be given the opportunity to update its listing, with the office's approval, prior to the agency or educational institution's reporting of expenditures made to the business.~~

~~(2) Prime contractors and consultants.~~

~~(a) Award to certified businesses. When a contract is awarded, which is to be performed solely by a certified business, one hundred percent of the total contract value can be counted toward the contract goal according to the certification status of the business.~~

~~(b) Award to certified prime contractors and consultants with noncertified subcontractor and subconsultant. When a contract is awarded to a certified prime contractor with a noncertified subcontractor, one hundred percent of the total contract value can be counted toward the contract goal according to the certification status of the prime contractor; provided, the certified prime contractor performs a commercially useful function in the work of the contract.~~

~~(c) Award to noncertified prime contractor or consultant with a certified subcontractor or subconsultant. When a part of the contract is performed by a certified subcontractor or subconsultant, the dollar value of only that percentage of the total contract performed by the certified business can be counted toward the contract goal according to the certification status of the firm; provided, the certified business performs a commercially useful function in the work of the contract.~~

~~(d) Award to a certified prime contractor or consultant with a certified subcontractor or subconsultant. When a contract is awarded to a certified prime contractor with a certified subcontractor, one hundred percent of the total contract value may be counted toward the contract goal according to the certification status of the certified prime contractor or consultant; provided, the certified prime contractor or consultant performs a commercially useful function in the work of the contract.~~

~~(e) Award to a joint venture. When a contract is awarded to a joint venture that is approved pursuant to WAC 326-40-100, the dollar value, on a percentage basis, of the portion of the work performed by the certified business may be counted toward the contract goal according to the certification status of the business; provided, the certified business performs a commercially useful function in the work of the contract.~~

~~(f) Award to a minority woman. When a contract is awarded which is to be performed totally or in part by a certified minority woman, and the business performs a commercially useful function, the dollar value of the work performed by the business may be counted toward either contract goal, but not both.~~

~~(g) Award to a combination business enterprise (CBE). When a contract is awarded which is to be performed totally or in part by a CBE, and the business performs a commercially useful function, one half of the dollar value may be counted toward the contract MBE goal and one half may be counted toward the contract WBE goal. When the contract contains only an MBE requirement or a WBE requirement,~~

~~only one-half of the dollar value of the CBE's total participation may be counted toward the single goal.~~

~~(3) Subcontractors and subconsultants.~~

~~(a) Where a subcontract is awarded to a certified business that performs a commercially useful function in the work of a contract, one hundred percent of the dollar value of the work performed by the certified business may be counted toward the contract goal according to the certification status of the business.~~

~~(b) Where a subcontract is awarded to a certified business on a heavy construction, highway, or street construction project, expenditures to the certified business shall not be counted toward the contract goal if the business subcontracts more than twenty-five percent of the total amount of its own subcontract to a noncertified business.~~

(1) When a contract is to be awarded to a certified business that performs a commercially useful function as the prime contractor/consultant/vendor, the total contract value may be counted toward the contract goal according to the certification status of the business as follows:

(a) Minority Business Enterprise (MBE): one hundred percent toward the MBE goal;

(b) Women's Business Enterprise (WBE): one hundred percent toward the WBE goal;

(c) Minority Woman Business Enterprise (MWBE): one hundred percent toward the MBE goal or the WBE goal, but not both;

(d) Combination Business Enterprise (CBE): fifty percent toward the MBE goal and fifty percent toward the WBE goal. This procedure is to be used when the contract contains an either/or goal or separate goal requirements. When the contract contains only an MBE requirement or a WBE requirement, only one-half of the dollar value of the CBE's total participation may be counted toward the single goal. A state agency or educational institution will receive credit for the remaining fifty percent toward its annual goal attainment.

(2) When a contract is to be awarded to a joint venture that is approved pursuant to WAC 326-40-100, the dollar value of the portion of the work performed by the certified business may be counted, on a percentage basis, toward the contract goal as set forth in subparagraphs (1)(a-d) of this section; provided, the certified business performs a commercially useful function in the work of the contract.

(3) Subcontractors and subconsultants.

(a) When a certified business performs a commercially useful function as a subcontractor or subconsultant, the dollar value of the work performed by the certified business may be counted toward the contract goal as set forth in subparagraphs (1)(a-d) of this section.

(b) When a certified business is awarded a subcontract on a heavy construction, highway, or street construction project, expenditures to the certified business shall not be counted toward the contract goal if the business subcontracts more than twenty-five percent of the total amount of its own subcontract to a noncertified business.

(4) Suppliers.

(a) Where a certified business is the manufacturer or a regular dealer of materials or supplies required under a contract, one hundred percent of the dollar value of the materials or supplies to be provided may be counted toward

the contract goal according to the certification status of the business.

(b) Where a certified business is a broker or a packager of materials or supplies required under a contract, ~~effective July 1, 1993, twenty one hundred percent~~ of the dollar value charged for a bona fide service the commercially useful function it performs in the procurement of essential personnel, facilities, equipment, materials or supplies required for performance of the contract may be counted toward the contract goal according to the certification status of the business.

(5) Where a certified business is a hauler, trucker, or delivery service, but not also a regular dealer or the manufacturer of the materials or supplies required on the job site, only the dollar value of the fees charged to deliver the materials or supplies required may be counted toward the contract goal according to the certification status of the business.

(6) Where a certified business is a travel agency, shipping or transportation broker, or other business performing similar functions, twenty percent of the dollar value charged for providing a bona fide service in the procurement of transportation may be counted toward the contract goal according to the certification status of the business.

(7) Where a certified business provides bonds or insurance specifically required for the performance of a contract, the dollar value charged for providing the bonds or insurance may be counted toward the contract goal according to the certification status of the business.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

**WSR 94-01-132
PROPOSED RULES
DEPARTMENT OF HEALTH
(Board of Nursing)
[Filed December 20, 1993, 1:10 p.m.]**

Original Notice.

Title of Rule: Computer adaptive testing (CAT).

Purpose: To establish rules for CAT which will replace the paper and pencil test as the national test in April 1994 and eliminate the need for interim permits to practice.

Statutory Authority for Adoption: RCW 18.88.140.

Statute Being Implemented: RCW 18.88.140.

Summary: To establish rules for CAT which will replace the paper and pencil test as the national test in April 1994.

Reasons Supporting Proposal: The Washington State Board of Nursing contracts with the National Council of State Boards of Nursing for the national exam, which will be changing to CAT.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Patricia O. Brown, RN, MSN, 1300 S.E. Quince, Olympia, 573-2686.

Name of Proponent: Washington State Board of Nursing, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: As of April 1, 1994, licensing testing for registered nurses and licensed practical nurses will be available weekly, on usual business days, 52 weeks a year, by computer adaptive testing at five Sylvan Key Test Centers in Washington state. This change from the current paper and pencil testing on two days only each year requires changes in the board rules in order to implement. The effect will be to dramatically reduce the waiting period for testing to no more than thirty days, with results available within days of testing. This will allow for rapid licensure of nurses who meet qualifications for licensure, will reduce travel for candidates, and free state employee time from administering the test. The rapid testing and licensure time eliminates need for interim permit. Employer and agency monitoring of permits would also be unrealistic, as there will no longer be a single test date.

Proposal Changes the Following Existing Rules: Changes reference to "writing" the examination, alters application deadlines, eliminates reference to interim permit.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: First hearing on February 1, 1994, at 2:00 p.m., SeaTac Marriott, 3201 South 176th Street, Seattle, WA; and second hearing on March 3, 1994, at 1:30 p.m., Marriott Courtyard, North 401 Rverpt, Spokane, WA.

Submit Written Comments to: Patricia O. Brown, Executive Director, Washington State Board of Nursing, Department of Health, P.O. Box 47864, Olympia, WA 98504-7864, by February 15, 1994.

Date of Intended Adoption: March 3, 1994.

December 15, 1994 [1993]

Patricia O. Brown, RN, MSN

AMENDATORY SECTION (Amending Order 214B, filed 11/19/91, effective 12/20/91)

WAC 246-839-020 Documents which indicate authorization to practice registered nursing in Washington. The following documents are the only documents that indicate legal authorization to practice as a registered nurse in Washington.

(1) Active license. A license is issued upon completion of all requirements for licensure - confers the right to use the title registered nurse and the use of its abbreviation, R.N. and to practice as a registered nurse in the state of Washington.

(2) Inactive license. A license issued to a person previously holding an active license in this state who desires to retire temporarily from the practice of nursing in this state.

~~(3) Interim permit. An interim permit may be issued to a graduate from an approved nursing school who has met all qualifications, has filed an application for examination and is eligible for admission to the licensing examination.~~

~~(a) This permit expires when a license is issued, when the candidate receives first notice of failure, or within one~~

~~year from the date of issuance, whichever is the earliest date. The permit is not renewable.~~

~~(b) An applicant who does not write the examination on the date scheduled shall return the permit to the division of professional licensing.~~

~~(c) The interim permit authorizes the holder to perform functions of registered nursing as described in chapter 18.88 RCW. It is in violation of the law regulating the practice of registered nursing to use the title "registered nurse." The title "interim permit nurse" or "graduate nurse" may be used.~~

(4) (3) Limited educational license. A limited educational license may be issued to a person who has been on nonpracticing status for three years or more and who wishes to return to active status (see WAC 246-839-120).

(5) (4) Advanced registered nurse practitioner (ARNP) recognition document. An ARNP recognition document may be issued to any person who meets the requirements of the board as contained in WAC 246-839-300. Only persons holding this recognition document shall have the right to use the title "advanced registered nurse practitioner" or the abbreviation "ARNP" or any title or abbreviation which may indicate that the person is entitled to practice at an advanced and specialized level as a nurse practitioner, a specialized nurse practitioner, a nurse midwife, or a nurse anesthetist. This document authorizes the ARNP to engage in the scope of practice allowed for his or her specialty area and is valid only with a current registered nurse license.

(6) (5) ARNP interim permit. An interim permit may be issued following satisfactory completion of an advanced formal education program, registration for the first certification examination of an approved program following completion of the education and filing of an application, fee and requested documentation. If the applicant passes the examination the department shall grant advanced registered nurse practitioner status. If the applicant fails the examination, the interim permit shall expire upon notification and is not renewable.

(7) (6) ARNP prescriptive authorization. A notation of prescriptive authorization may be placed on the ARNP recognition document issued to any person who meets the requirements of the board as contained in WAC 246-839-410. This authorizes the ARNP to prescribe legend drugs within his or her scope of practice and is valid only with a current registered nurse license.

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 214B, filed 11/19/91, effective 12/20/91)

WAC 246-839-030 Qualification/eligibility to write take the licensing examination. (1) Graduates from Washington state board approved schools of nursing holding a degree/diploma from such a school shall be eligible to write the examination provided all other requirements are met.

(2) Graduates from a nursing school approved by a board of nursing in another U.S. jurisdiction shall be eligible to write take the examination provided that:

(a) The nursing school meets the minimum standards approved for state board school of nursing in Washington at the time of the applicant's graduation;

(b) Graduate ~~holds a degree/diploma from the approved school of nursing;~~ has completed all institutional requirements for the degree/diploma in nursing education per attestation from the administrator of the approved nursing education program;

(c) All other requirements of the statute and regulations shall be met.

~~(3) An interim permit (WAC 246-839-020(3)) and a notice of eligibility for admission to the licensing examination may be issued to all new graduates from board approved schools of nursing after filing of a completed application, payment of the application fee, and official notification from the school certifying that the individual has successfully completed all requirements for the diploma/degree. The results of the licensing examination will not be released until the candidate's official transcript is on file with the board.~~

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 116B, filed 3/18/91, effective 4/18/91)

WAC 246-839-040 Filing of application for licensing examination. (1) All applicants shall file with the Washington state board of nursing a completed notarized application, with the required fee ~~prior to May 1, for the July examination and December 1 for the February examination. 60 days~~ prior to the anticipated date of examination.

(2) Applicants shall request the school of nursing to send an official transcript directly to the board of nursing.

(3) Applicants shall also file an examination application, along with the required fee directly with the testing service.

(4) Applicants who have filed the required applications and met all qualifications will be notified of their eligibility, and only such applicants will be admitted to the examination.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 116B, filed 3/18/91, effective 4/19/91 [4/18/91])

WAC 246-839-050 Licensing examination. (1) The current series of the National Council of the State Board of Nursing Registered Nurse Examination ~~NCLEX Computerized Adaptive Test (NCLEX CAT)~~ NCLEX Computerized Adaptive Test (NCLEX CAT) shall be the official examination for registered nurse license.

(2) The NCLEX will consist of ~~four ninety minute tests~~ a Computerized Adaptive Test that will be individualized with the overall score for the examination reported as either pass or fail. Specific parameters of the exam will be as prescribed by contract with National Council of State Boards of Nursing, Inc. (NCSBN).

(3) Examinations shall be conducted ~~twice a year, in February and July, throughout the year.~~

(4) The executive secretary of the board shall negotiate with ~~The National Council of State Boards of Nursing, Inc. (NCSBN)~~ NCSBN for the use of the NCLEX CAT.

(5) The examination shall be administered in accord with the NCSBN security measures and contract.

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 214B, filed 11/19/91, effective 12/20/91)

WAC 246-839-060 Release of results of examination.

(1) Candidates shall be notified regarding the examination results by mail only.

(2) Candidates who pass shall receive a license to practice as a registered nurse provided all other requirements are met.

(3) Candidates who fail shall receive a letter of notification regarding their eligibility to rewrite the examination.

~~(4) In addition to a listing of the names of graduates indicating whether each passed or failed the examination, each school of nursing in Washington shall receive a statistical report of the examination results of candidates from that school.~~

~~(5) (4) The candidate's examination results will be maintained in his/her application file in the division of professional licensing services, department of health. Board of Nursing records.~~

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 116B, filed 3/18/91, effective 4/18/91)

WAC 246-839-070 Failures—Repeat examination.

~~(1) The application forms to rewrite the examination and fees shall be filed on or before May 1 for the July examination and December 1 for the February examination. The retest may be scheduled no sooner than 90 days following the date of the last exam taken.~~

~~(2) Request to retake the exam must be submitted to the Board no less than 45 days prior to the anticipated test date.~~

~~(2) (3) Candidates who fail the examination will be permitted to rewrite retake the examination three times within the two-year period from the month of first writing.~~

~~(3) (4) Candidates who fail to pass the examination within the time period specified in subsection (2) (3) of this section shall be required to complete a program of study approved by the board. Upon successful completion of the approved program, the candidate shall be required to write take the entire examination.~~

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 214B, filed 11/19/91, effective 12/20/91)

WAC 246-839-080 Applicants previously licensed in a foreign country. (1) Applicants for licensure educated in a country outside the United States or its territories shall meet the following requirements for licensure:

(a) Satisfactory completion of a basic nursing education program approved in the country of original licensure.

(i) The nursing education program shall be equivalent to the minimum standards prevailing for state board approved schools of nursing in Washington at the time of graduation.

(ii) Any deficiencies in the nursing program (theory and clinical practice in medical, psychiatric, obstetric, surgical and pediatric nursing) shall be satisfactorily completed in a state board approved school of nursing.

(b) Satisfactory passage of the screening examination for foreign nurses. As of May 1, 1981, all applicants from countries outside the United States, and never before licensed in one of the United States jurisdictions shall have passed the commission on graduates of foreign nursing schools (CGFNS) qualifying examination.

(c) Applicants licensed under the laws of a country outside the United States or its territories shall be required to take the current series of the National Council of State Boards of Nursing Registered Nurse Examination (NCLEX) as provided in WAC 246-839-050: *Provided*, that those persons meeting the requirements of WAC 246-839-090(2) are exempt from this requirement.

(d) All other requirements of the statute and regulation shall be met.

(2) Applicants for examination shall:

(a) File with the board of nursing a completed notarized license application with the required 60 days fee prior to ~~May 1 for the July examination and prior to December 1 for the February examination.~~ the anticipated date of the examination.

(b) Request the school of nursing to submit an official transcript directly to the division of professional licensing.

(c) Applicants shall also file an examination application, along with the required fee directly with the testing service.

(d) Persons applying for licensure shall submit, in addition to the other requirements, evidence to show compliance with the education requirements of WAC 246-839-100.

(e) Request the licensing agency in the country of original license to submit evidence of licensure.

(f) Submit a notarized copy of the certificate issued by the CGFNS.

(g) If the applicant's original documents (education and licensing) are on file in another state or with the CGFNS, the applicant may request that the state board or the CGFNS send notarized copies in lieu of the originals.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 214B, filed 11/19/91, effective 12/20/91)

WAC 246-839-090 Licensure by interstate endorsement. (1) A license to practice as a registered nurse in

Washington may be issued without examination provided the applicant meets all of the following requirements:

(a) The applicant has graduated and holds a degree/diploma from a state board approved school of nursing preparing candidates for licensure as a registered nurse provided such nursing program is equivalent to the minimum nursing educational standards prevailing for state board approved schools of nursing in Washington at the time of the applicant's graduation.

(i) Applicants who were licensed prior to January 1, 1953, shall have scored at least 75% on the state board examination in the state of original licensure.

(ii) Applicants licensed after January 1, 1953, but before June 1, 1982, shall have passed the state board test pool examination for registered nurse licensure with a minimum standard score of 350 in each test.

(iii) Applicants licensed after July 1, 1982, shall have passed with a minimum standard score of ~~1600 for the total examination.~~ as established by contract with the National Council of State Boards of Nursing.

(b) The applicant holds a valid current license to practice as a registered nurse in another state or territory.

(c) The applicant complies with the education requirements of WAC 246-839-100.

(d) The application shall be completed and notarized, the fee must be filed with the application. The fee is not refundable. A notarized copy of a valid current license shall be filed with the application.

(e) Verification of licensure by examination shall be obtained from the state or territory of original licensure. Any fee for verification required by the state or territory of original license shall be paid by the applicant.

(2) Applicants from countries outside the United States who were granted a license in another United States jurisdiction or territory prior to December 31, 1971, and who were not required to pass the state board test pool examination shall meet the following requirements:

(a) The nursing education program shall meet the minimum approved standards prevailing for schools of nursing in Washington at the time of the applicant's graduation.

(b) The applicant holds a valid current license to practice as a registered nurse in another United States jurisdiction or territory.

(c) The applicant shall submit to the board:

(i) A complete notarized application. The nonrefundable fee must be filed with the application.

(ii) Verification of original licensure obtained in the United States jurisdiction or territory.

(iii) Notarized copies of educational preparation and licensure by examination submitted directly from the country of original licensure or from the state board or territory of original United States licensure.

(iv) Verification of current nursing practice for three years prior to application for Washington licensure.

(v) Evidence to show compliance with the education requirements of WAC 246-839-100.

(d) The applicant shall meet all requirements of chapter 18.88 RCW and regulations of the board.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-136
PROPOSED RULES
SUPERINTENDENT OF
PUBLIC INSTRUCTION
 [Filed December 20, 1993, 3:52 p.m.]

Original Notice.

Title of Rule: Running start program rules.

Purpose: Repeal WAC 392-127-700 through 392-127-830. New substitute rules WAC 392-169-005 through 392-169-125 have been proposed for adoption, and scheduled for hearing at the same date, time and place as noted below.

Statutory Authority for Adoption: RCW 28A.600.390, 28A.150.260, and [28A.150].290.

Statute Being Implemented: RCW 28A.600.300 through 28A.600.380.

Summary: See Purpose above.

Name of Agency Personnel Responsible for Drafting: Richard M. Wilson, Old Capitol Building, Olympia, 753-2298; Implementation: Tom Case and Barbara Mertens, Old Capitol Building, Olympia, 753-6708; and Enforcement: David Moberly and John Pearson, Old Capitol Building, Olympia, 753-6742.

Name of Proponent: Superintendent of Public Instruction, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: See Purpose above.

Proposal Changes the Following Existing Rules: Same as above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Old Capitol Building, Wanamaker Conference Room, 2nd Floor, 600 South Washington Street, Olympia, WA 98504, on January 25, 1994, at 9:00 a.m.

Submit Written Comments to: Richard M. Wilson, P.O. Box 47200, Olympia, WA 98054-7200, by January 25, 1994.

Date of Intended Adoption: January 27, 1994.

December 20, 1993
 Judith A. Billings
 Superintendent of
 Public Instruction

REPEALER

The following sections of the Washington Administrative Code are repealed:

- WAC 392-127-700 Authority.
- WAC 392-127-703 Purpose.
- WAC 392-127-705 Running start program—Definition.
- WAC 392-127-710 Eligible student—Definition.
- WAC 392-127-715 Full-time equivalent high school and vocation-technical institute students—Definition.

- WAC 392-127-720 Full-time equivalent community college student—Definition.
- WAC 392-127-725 Annual average full-time equivalent student—Definition.
- WAC 392-127-730 Community college district—Definition.
- WAC 392-127-735 Community college—Definition.
- WAC 392-127-740 School district—Definition.
- WAC 392-127-745 Vocational-technical institute—Definition.
- WAC 392-127-750 Annual notice to students and parents.
- WAC 392-127-755 Enrollment—General requirements and conditions.
- WAC 392-127-760 Enrollment—1990-91 and 1991-92 school years—Limitations on community college and student participation.
- WAC 392-127-765 Enrollment—1990-91 school year—Limitation on vocational-technical institute participation.
- WAC 392-127-770 Enrollment—High school credit—Prior confirmation.
- WAC 392-127-775 Enrollment—Extent and duration.
- WAC 392-127-780 Academic standards and discipline—Jurisdiction of educational agencies.
- WAC 392-127-785 Compliance with federal and state requirements of law—Special education program requirements—Necessary cooperative agreements.
- WAC 392-127-790 High school credit—Award by school districts.
- WAC 392-127-795 Finance—Generation of state and federal moneys.
- WAC 392-127-800 Finance—Community college and vocational-technical institute reporting requirements.
- WAC 392-127-805 Finance—School district reporting requirements.
- WAC 392-127-815 Finance—Apportionment and payment of basic education allocation moneys to community college districts and other school districts.
- WAC 392-127-820 Finance—Prior legislative approval of finance rules required.
- WAC 392-127-825 Current and future community college enrollment alternatives not affected.
- WAC 392-127-830 Current and future vocational-technical institute enrollment alternatives not affected.

WSR 94-01-137
PROPOSED RULES
SUPERINTENDENT OF
PUBLIC INSTRUCTION
 [Filed December 20, 1993, 3:55 p.m.]

Original Notice.

Title of Rule: Child nutrition—Practices and procedures, chapter 392-157 WAC.

Purpose: To provide policies and procedures for the administration of state appropriated grants to school districts to start up and/or expand or improve the quality of school breakfast and/or lunch programs or to districts and other eligible organizations to start up or expand the Summer Food Service Program. To formalize current procedures for the apportionment of state match money for the National School Lunch Program (NSLP) and the state reimbursement for free and reduced price breakfasts.

Statutory Authority for Adoption: RCW 28A.235.100.

Statute Being Implemented: RCW 28A.235.100 and SSB 5971.

Summary: See Purpose above.

Reasons Supporting Proposal: See Purpose above.

Name of Agency Personnel Responsible for Drafting: Richard Michael Wilson, Office of Superintendent of Public Instruction, Olympia, (206) 753-2298; Implementation: David Moberly, Office of Superintendent of Public Instruction, Olympia, (206) 753-6742; and Enforcement: Betty Marcelynas, Office of Superintendent of Public Instruction, Olympia, (206) 753-3580.

Name of Proponent: Office of Superintendent of Public Instruction, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule provides policies and procedures for the disbursement of state moneys for meals and start up of breakfast, lunch, or summer food service programs. Grant funds will be available on a competitive basis to assist districts to start up or expand these programs. Funds will be appropriated to districts for free and reduced price breakfasts. Grant funds will also be available to districts and other eligible organizations to start up or expand the summer food service program. The rule is to encourage school districts to participate in the School Breakfast and National School Lunch Programs or to increase participation in said programs.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Old Capitol Building, Wanamaker Conference Room, 2nd Floor, 600 South Washington Street, Olympia, WA 98504, on January 25, 1994, at 1:00 p.m.

Submit Written Comments to: Richard M. Wilson, P.O. Box 47200, Olympia, WA 98504-7200, by January 25, 1994.

Date of Intended Adoption: January 27, 1994.

December 20, 1993
 Judith A. Billings
 Superintendent of
 Public Instruction

Chapter 392-157 WAC
CHILD NUTRITION—PRACTICES AND PROCEDURE

NEW SECTION

WAC 392-157-005 Authority. The authority for this chapter is RCW 28A.235.100.

NEW SECTION

WAC 392-157-010 Purposes. The purposes of this chapter are to:

(1) Encourage school districts to participate in the National School Lunch and School Breakfast Programs.

(2) Provide policies and procedures for the budgeting and accounting for state appropriations for school breakfast and lunch programs in school districts.

(3) Provide policies and procedures regarding the administration of state appropriated grants to school districts to increase participation in school breakfast and lunch programs, to improve program quality, and to improve the equipment and facilities used in the programs.

(4) Provide policies and procedures regarding the administration of state appropriated grants to school districts and other eligible organizations to start summer food service programs and to help expand summer food services for children.

(5) Formalize procedures currently in place for the apportionment of state match money for the National School Lunch Program and the state reimbursement for free and reduced price breakfasts.

NEW SECTION

WAC 392-157-015 Definition—Child nutrition program. As used in this chapter, the term "child nutrition program" means activities designed to provide nutritious meals and nutrition education to children.

NEW SECTION

WAC 392-157-020 Definition—National School Lunch Program. As used in this chapter, the term "National School Lunch Program" has the meaning defined in Title 7 of the Code of Federal Regulations (7 CFR) Part 210.2.

NEW SECTION

WAC 392-157-025 Definition—School Breakfast Program. As used in this chapter, the term "School Breakfast Program" has the meaning defined in 7 CFR Part 220.2.

NEW SECTION

WAC 392-157-030 Definition—Summer Food Service Program. As used in this chapter, the term "Summer Food Service Program" means a program meeting the federal requirements defined in 7 CFR Part 225.

NEW SECTION

WAC 392-157-035 Definition—School food authority. As used in this chapter, the term "school food authority" has the meaning defined in 7 CFR Part 210.2 for the National School Lunch Program, 7 CFR Part 220.2 for the School Breakfast Program and 7 CFR Part 225.2 for the Summer Food Service Program.

NEW SECTION

WAC 392-157-040 Definition—Summer Food Service Program sponsor. As used in this chapter, the term "Summer Food Service Program sponsor" has the meaning defined in 7 CFR Part 225.2.

NEW SECTION

WAC 392-157-045 Definition—Lunch. As used in this chapter, the term "lunch" has the meaning defined in 7 CFR Part 210.2.

NEW SECTION

WAC 392-157-050 Definition—Free lunch. As used in this chapter, the term "free lunch" has the meaning defined in 7 CFR Part 210.2.

NEW SECTION

WAC 392-157-055 Definition—Reduced price lunch. As used in this chapter, the term "reduced price lunch" has the meaning defined in 7 CFR Part 210.2.

NEW SECTION

WAC 392-157-060 Definition—Breakfast. As used in this chapter, the term "breakfast" has the meaning defined in 7 CFR Part 220.2.

NEW SECTION

WAC 392-157-065 Definition—Free breakfast. As used in this chapter, the term "free breakfast" has the meaning defined in 7 CFR Part 220.2.

NEW SECTION

WAC 392-157-070 Definition—Reduced price breakfast. As used in this chapter, the term "reduced price breakfast" has the meaning defined in 7 CFR Part 220.2.

NEW SECTION

WAC 392-157-075 Definition—Severe need school. As used in this chapter, the term "severe need school" has the meaning defined in 7 CFR Part 220.2 and 7 CFR Part 220.9(e).

NEW SECTION

WAC 392-157-080 Definition—Severe need breakfast reimbursement. As used in the chapter, the term "severe need breakfast reimbursement" means an additional amount paid by the USDA for each breakfast served in qualifying school buildings identified as "severe need

schools" in school districts, private schools and residential child care institutions participating in the school breakfast program.

NEW SECTION

WAC 392-157-085 Definition—Accounting manual. As used in this chapter, the term "accounting manual" means the most recently published accounting manual for public school districts in the state of Washington issued by the superintendent of public instruction and the state auditor.

NEW SECTION

WAC 392-157-090 Definition—Object of expenditure. As used in this chapter, the term "object of expenditure" shall be as defined in the accounting manual glossary of terms (i.e., "the article purchased or the services obtained").

NEW SECTION

WAC 392-157-095 Definition—Activity. As used in this chapter, the term "activity" shall be as defined in the accounting manual glossary of terms (i.e., "a specific and distinguishable service performed by a school district in order to accomplish a function for which the school district is responsible").

NEW SECTION

WAC 392-157-100 Definition—Operating expenditure. As used in this chapter, the term "operating expenditure" means the school district general fund direct expenditures and indirect expenditures allocated to Program 98 - Food Services as defined in the *Accounting Manual for Public School Districts in the State of Washington*.

NEW SECTION

WAC 392-157-105 Meal requirements. The following procedures shall be used by the superintendent of public instruction to apportion moneys appropriated by the legislature for school district meal reimbursements:

(1) National School Lunch Program state match reimbursements and adjustments to these reimbursements shall be apportioned by the superintendent of public instruction (SPI) in the same manner as provided in WAC 392-121-400.

(2) All other meal reimbursements shall be apportioned as follows:

(a) Allocations for each school year shall be based on a uniform state-wide rate per meal.

(b) Allocations shall be made at a rate of ten percent per month for the months of September through June.

(3) Except as provided in subsection (2)(a) and (b) of this section allocations shall be made in the same manner as provided in WAC 392-121-400.

(4) During the month of January following the end of the school year, the reimbursements made to each school district during the preceding school year will be adjusted to the actual number of meals reported to the SPI child nutrition section during the preceding school year on Form F-398.

NEW SECTION

WAC 392-157-110 Timely reporting. Reimbursement claims for meals must be submitted in a timely manner in accordance with chapter 392-117 WAC and 7 CFR Parts 210.8 and 220.11.

NEW SECTION

WAC 392-157-115 Use of meal reimbursements. Appropriations by the state legislature for school district meal reimbursements required as a state match in 7 CFR Part 210.17 shall be used for any nonprofit school food service program purpose. Appropriations made under chapter 28A.235 RCW shall be used by school districts to support the operating expenditures of school lunch and school breakfast programs, including food, labor, supplies, and capital expenditures unless specific appropriations for nonoperating expenditures are provided.

NEW SECTION

WAC 392-157-120 Program operation. All school districts that do not offer a school lunch program are encouraged to implement such a program. All school districts are encouraged to provide a breakfast program in all severe need schools as they become eligible.

NEW SECTION

WAC 392-157-125 Time for meals. The school breakfast and school lunch periods shall allow a reasonable amount of time for each child to take care of personal hygiene and enjoy a complete meal.

STATE GRANTS FOR SCHOOL LUNCH AND BREAKFAST PROGRAMS

NEW SECTION

WAC 392-157-130 General description. Amounts appropriated by the state legislature for school districts to start-up, improve and expand breakfast and lunch programs shall be awarded on a competitive basis. School districts, if eligible, shall first apply for any available USDA grants to start-up, improve and expand breakfast and lunch programs prior to making application for state grants for these purposes. School districts, if eligible, shall also apply for the USDA severe need breakfast reimbursement prior to making applications for state grants to start-up, improve, and expand breakfast and lunch programs. A state grant to start-up, improve, and expand a school district breakfast or lunch program may be used for the following purposes which are listed in order of importance:

- (1) Purchase food service equipment.
- (2) Provide staff training.
- (3) Disseminate program information to students, families and school staff to encourage program participation.
- (4) Improve efficiency in the food service area.
- (5) Improve sanitation in the food service area.
- (6) Improve safety in the food service area.

State start-up, improvement, and expansion grants shall not be used for the acquisition of land or existing buildings, improvement of grounds, construction of buildings, additions

to buildings, or the remodeling of buildings to be consistent with 7 CFR Part 210.14(a).

NEW SECTION

WAC 392-157-135 Application procedure. In order to apply for a state grant, a school food authority must submit a written description of its proposed purchase or project. The description must include:

- (1) Proposed purchase(s) or a description of the project.
- (2) The cost of each item or each part of the project.
- (3) How the item(s) purchased or how the results of the project will benefit the program.
- (4) How the purchase(s) or the project will affect the breakfast and lunch programs, for example, increased participation, improved menus, and/or expenditure reductions.
- (5) The number of students eligible for free or reduced price meals that would be affected.
- (6) A timetable for the purchase and installation of equipment or a timetable for the project.
- (7) An assurance that a USDA grant is not available or application has been made for a USDA grant for the proposed purchase(s) or project.
- (8) An assurance that, if eligible, an application has been made for the severe need breakfast reimbursement from the USDA.
- (9) An assurance that the program will be continued for at least three years after the grant is received.

NEW SECTION

WAC 392-157-140 Evaluation of grant proposals. A committee shall be established to apply the criteria for the evaluation of state grant proposals to start-up, improve, and expand breakfast and lunch programs. A separate committee shall be established to apply the criteria for the evaluation of state grant proposals to improve and expand summer food service programs. Each committee's evaluations shall be forwarded to the superintendent of public instruction who will use the evaluations as grant award recommendations. Each committee shall consist of three or more representatives from selected organizations concerned with child nutrition such as the Washington School Food Service Association, the Washington School Directors' Association, the Washington Association of School Administrators, the Washington Association of School Principals, the Washington Association of School Business Officials and School Nurses of Washington. In addition, each committee shall include a representative from one or more child nutrition advocacy organizations, a representative from the office of the governor, and any other organization as the office of the superintendent of public instruction deems necessary. Members of the committee shall be selected by the superintendent of public instruction.

NEW SECTION

WAC 392-157-145 Grant proposal evaluation criteria. Proposals from all school districts will be evaluated and ranked by a committee established pursuant to WAC 392-157-140 based on the following criteria which are listed in descending order of importance:

(1) A program will be made available where there was no program before.

(2) The projected total number of students that will be affected by the purchase or project while allocating the funds to the greatest number of districts practical.

(3) The effect of the purchase or the project on the participation of students eligible for free and reduced price meals.

(4) Time frame in which a new program will be started and/or how quickly the improvements can be made as the result of the purchase or project.

(5) The availability of other sources of money for the proposed purchases or project.

(6) Necessary assurances provided by the school district for the continuation of the program after the purchases are made or the project is completed.

(7) The projected effect of the purchase or project on program quality.

(8) The amount of grant money available.

(9) The geographic dispersion of the grantees.

NEW SECTION

WAC 392-157-150 Grant budgets. School districts as part of the grant application process shall budget expenditures by object of expenditure and activity as described in the accounting manual for public schools in the state of Washington on forms provided by the superintendent of public instruction.

NEW SECTION

WAC 392-157-155 Budget adjustments. Budgeted expenditure adjustments may be made by increasing an approved activity-object expenditure amount by up to ten percent and decreasing others without filing a request for a budget revision with the superintendent of public instruction. These adjustments may be made only once for each grant and only if the increases, in total do not exceed ten percent of the total budgeted expenditures and do not increase total budgeted expenditures.

STATE GRANTS FOR SUMMER FOOD SERVICE PROGRAMS

NEW SECTION

WAC 392-157-160 General description. Amounts appropriated by the state legislature for summer food service programs shall be awarded on a competitive basis. Summer food service program sponsors shall apply for any federal grants to start-up and expand summer food service programs prior to making application for state grants for these purposes. A state start-up and expansion grant may be used to:

(1) Provide staff time for summer food service program development including the planning, designing and implementation of a new program or the expansion of an existing program.

(2) Purchase food service equipment.

(3) Provide staff training.

(4) Disseminate program information to students, families, school staff, and the community to encourage program participation.

State start-up and expansion grants shall not be used for the acquisition of land or existing buildings, improvement of grounds, construction of buildings, additions to buildings, or the remodeling of buildings to be consistent with 7 CFR Part 210.14(a).

NEW SECTION

WAC 392-157-165 Application procedure. In order to apply for a state grant, a summer food service sponsor must submit a written description of its proposed purchase or project. The description must include:

(1) Proposed purchase(s) or a description of the project.

(2) The cost of each item or each part of the project.

(3) How the item(s) purchased or how the results of the project will benefit the program.

(4) If appropriate, a description of how staff will be used to develop the program.

(5) Impact the sponsor expects the purchase(s) or project to have on the number of children participating in the summer food service program.

(6) A timetable for the purchase and installation of equipment or a timetable for the project.

(7) An assurance that a USDA grant is not available or application has been made for a USDA grant for the proposed purchases or project.

(8) An assurance that the program will be continued for at least three years after the grant is received.

NEW SECTION

WAC 392-157-170 Proposal evaluation criteria. The proposals from all sponsors and potential sponsors will be evaluated by a committee established pursuant to WAC 392-157-140 and ranked based on the following criteria which are listed in descending order of importance:

(1) A program will be made available where there was no program before.

(2) The increased participation that is projected because of the proposed purchase or project.

(3) Time frame in which a program will be started or expanded and/or how quickly the improvements can be made as the result of the purchase or project.

(4) The availability of other sources of money for the proposed purchase or project.

(5) Necessary assurances provided by the sponsor for the continuation of the program after the purchases are made or the project is completed.

(6) The amount of grant money available.

(7) The geographic dispersion of the grantees.

NEW SECTION

WAC 392-157-175 Grant budgets. School districts as part of the grant application process shall budget expenditures by object of expenditure and activity as described in the *Accounting Manual for Public Schools in the State of Washington*. All summer food service program sponsors shall submit a budget on forms provided by the superintendent of public instruction.

NEW SECTION

WAC 392-157-180 Budget adjustments. Budgeted expenditure adjustments may be made by increasing an approved activity-object expenditure amount for school districts and a budgeted line item for all other summer food service program sponsors by up to ten percent and decreasing others without filing a request for a budget revision with the superintendent of public instruction. These adjustments may be made only once for each grant and only if the increases, in total do not exceed ten percent of the total budgeted expenditures and do not increase total budgeted expenditures.

**WSR 94-01-138
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
(Public Assistance)**

[Filed December 20, 1993, 4:31 p.m.]

Original Notice.

Title of Rule: New chapter 388-275 WAC, Supplemental security income; and repealing WAC 388-59-010 through 388-59-100.

Purpose: Facilitates on-line (computer) access by eligibility staff in field offices and makes the policies easier to understand. Changes clarify consistency with the state supplemental agreement between the department and Social Security Administration, the Code of Federal Regulations for Supplemental Security Income, and the general assistance RCW.

Statutory Authority for Adoption: RCW 74.08.090 and 74.04.600 through [74.04.]650.

Statute Being Implemented: RCW 74.08.090 and 74.04.600 through [74.04.]650.

Summary: Adds definitions, clarifies a parent's eligibility for the ineligible spouse state supplement, adds a new section to clarify the dept status of general assistance that is subsequently duplicated by SSI.

Reasons Supporting Proposal: Program eligibility criteria for the SSI program is recodified and placed within chapter 388-275 WAC. Clarifies a parent's eligibility for the ineligible spouse state supplement has been clarified within WAC 388-275-0050. Clarifies the debt status of general assistance that is subsequently duplicated by SSI.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Mary Lou Percival, Division of Income Assistance, 438-8319.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 20, 1993

Dewey Brock, Chief
Office of Vendor Services
Administrative Services Division

**Chapter 388-275 WAC
SUPPLEMENTAL SECURITY INCOME**

NEW SECTION

WAC 388-275-0010 Purpose. The purpose of the Supplemental Security Income Program is to provide a minimum income level for persons who are aged, blind, and disabled with limited income and resources.

Authority for the program is found in Title XVI of the Social Security Act amended by P.L. 92-603.

NEW SECTION

WAC 388-275-0020 Definitions. (1) "Conversion" means the process by which a client who was receiving assistance under the former state-administered Old Age Assistance (OAA), Aid to the Blind (AB), or Disability (DA) programs was transferred in January 1974 to the federally administered SSI program.

(2) "Department" means the department of social and health services.

(3) "Eligible couple" means an eligible individual and eligible spouse.

(4) "Eligible individual" means an aged, blind, or disabled person as defined in Title XVI of the Social Security Act.

(5) "Emergency advance SSI payment" means an expedited one-time SSI payment issued by the local SSA office to a person who:

(a) Has an application for SSI pending or just approved with SSA; and

(b) SSA determines is presumptively disabled or blind; and

(c) Has a financial emergency.

(6) "Essential person" means a person who is not eligible for SSI in the person's own right but receives SSI benefits because:

(a) The person is a legal dependant or spouse of an SSI beneficiary and have continuously lived in the home of the eligible person since December 1973, and

(b) At the time of conversion to SSI in 1974 the person's needs were included in the state-administered assistance grant for the aged, blind, and disabled programs.

(7) "Federal Benefit Rate (FBR)" means the federal SSI benefits payment standard.

(8) "Grandfathered" means the special status for a client converted from the state-administered aged, blind, and disabled programs which provides:

(a) Future eligibility determined on the basis of state eligibility criteria in effect at the time of conversion; and

(b) A maintained mandatory minimum payment level.

(c) A "grandfathered" recipient shall retain grandfathered status as long as the recipient continues meeting the eligibility requirements at the time of conversion.

(9) "Ineligible spouse" means a person whose needs are included in the SSI beneficiary's payment and who is:

(a) Not eligible for SSI in the person's own right; and

(b) Living with a SSI eligible individual; and

(c) Married to or "holding out" to the community as married to the eligible individual. SSA considers a man and woman who are not legally married, but are holding out to the community that the couple are husband and wife, as a couple for purposes of determining eligibility and payment amount under SSI.

(10) "Interim assistance" means state funds furnished to or on behalf of the individual for basic needs, including care in alternate care facilities, during the:

(a) Interim period the client's application for SSI is pending and subsequently approved; or

(b) Period the client's SSI benefits were suspended or terminated, and subsequently reinstated for that period.

(11) "Interim assistance period" means the period:

(a) Beginning with the first day;

(i) A client was eligible for SSI benefits; or

(ii) A client's benefits were suspended or terminated, if the client was subsequently found to have been eligible for such benefits; and

(b) Ending with the month payment is made. It includes the last interim assistance payment which the state prepares and cannot stop delivery on, when the client's initial or reinstated (posteligibility) SSI benefit payment is received from SSA.

(12) "Presumptive SSI payment" means an SSI payment, authorized for a maximum of six months, which SSA issues prior to a formal eligibility decision to a person who SSA determines:

(a) Is presumptively disabled or blind; and

(b) Meets all other eligibility requirements.

(13) "Secretary" means the secretary of department of social and health services.

(14) "SSA" means the Social Security Administration.

(15) "SSI benefit payment" means the federal SSI benefit payment and/or the state supplementary payment amount the Social Security Administration determines payable on behalf of the state.

(16) "Supplemental Security Income (SSI) program" means the federal program of Supplemental Security Income for a person who is aged, blind, and disabled established by section 301 of the Social Security Act, and subsequent amendments, and administered by the Social Security Administration (SSA).

(17) "State data exchange (SDX)" means the computer system for exchanging information between SSA and the department regarding SSI clients. SDX provides the department with information to authorize medical coupons and Medicare buy-in for a person eligible for SSI.

(18) "State supplementary payment" means a state money payment authorized by the state and administered by SSA to supplement the federal SSI benefit payment standard.

NEW SECTION

WAC 388-275-0030 Administrative responsibility.

(1) Social Security Administration (SSA) administers the SSI program.

(a) Except as specified under subsection (2) of this section, SSA administers state supplementary payments as specified under the state supplement agreement between the department and SSA.

(b) An applicant shall make application for SSI benefits, including the state supplement, with the SSA.

(2) The department administers state supplementary payments for individuals or couples:

(a) Residing in a Title XIX certified medical facility; and

(b) SSA determines eligible for a federal SSI benefit payment.

(3) The department shall authorize Title XIX Medicaid based on the SDX for individuals or couples eligible for SSI:

(a) Notwithstanding subsection (3) of this section, the department shall determine eligibility for the SSI client who:

(i) Refuses to provide third party insurance information and assign the insurance rights to the department;

(ii) Disposes of resources for less than fair market value and apply for Medicaid coverage of nursing facility care within thirty months of the date of transfer; or

(iii) Has a Medicaid qualifying trust.

(b) The essential spouse shall remain eligible for Title XIX medical assistance as long as the "grandfathered" essential spouse status does not cease.

(c) The ineligible spouse requesting medical assistance shall make a separate application to the department.

NEW SECTION

WAC 388-275-0040 Effect on other programs.

(1) SSA shall not pay the SSI ineligible spouse state supplement for a parent eligible for or receiving aid to families with dependent children (AFDC) for or with the parent's children.

(2) The department shall not pay state-funded general assistance when:

(a) The SSI eligible individual is eligible for or receiving an SSI ineligible spouse state supplement for the spouse; or

(b) The spouse of an SSI eligible individual refuses, without good cause, to apply for the SSI ineligible spouse state supplement.

NEW SECTION

WAC 388-275-0050 Waiver of state supplement.

(1) A person receiving or eligible to receive the state supplementary payments may:

(a) Waive the right to such payments by making a written request for waiver to SSA; and

(b) Revoke the supplemental payment waiver at any time by requesting, in writing, to the SSA.

(2) The department shall not pay state-funded general assistance in lieu of the state supplementary payments to a household that waives supplementary payments.

NEW SECTION

WAC 388-275-0060 Payments. (1) The amounts of state supplementary payment standards are as specified under WAC 388-29-295 and the state supplementary agreement between the department and SSA.

(2) A state supplementary payment is made on a monthly basis and is included in the same check as a federal benefit is payable.

(3) The state supplementary payment is for the same month as the federal benefit.

NEW SECTION

WAC 388-275-0070 Termination of state supplement. SSA shall terminate the state supplement when:

- (1) The person dies;
- (2) The person ceases to reside in Washington state;
- (3) The person fails to apply for and, if eligible, obtain benefits or accept vocational services as specified by SSA;
- (4) The person's disability is based on alcoholism or drug addition and the recipient refuses treatment required by SSA;

(5) The person has resided throughout a calendar month in a public institution;

(6) The person ceases to meet the categorical eligibility requirements of aged, blind, or disabled; or

(7) The grandfathered person ceases to meet the definition of aged, blind, and disabled under which the person received assistance for December 1973.

NEW SECTION

WAC 388-275-0080 Overpayment and underpayment. (1) SSA recoupment procedures for SSI benefit amounts shall also apply to the recovery of state supplementary overpaid amounts.

(2) The department shall not compensate an SSI beneficiary for reductions of the beneficiary's SSI benefit or state supplement caused by recoupment procedures.

(3) SSA shall pay the claimant for a state supplementation underpayment; except when the:

(a) Claimant dies before receiving the underpaid amount, SSA shall pay the underpaid amount to the claimant's eligible spouse.

(b) Deceased claimant does not have an eligible spouse, no payment of the underpaid amount is made.

(4) General assistance that is subsequently duplicated by the client's receipt of SSI for the same period and not reimbursed to the state is considered a debt due the state and subject to recovery through all available legal remedies.

(a) The department shall establish a debt for general assistance not reimbursed except when the:

(i) Initial or reinstated SSI payment is sent to the department; and

(ii) SSI payment does not cover the amount of interim assistance issued.

(b) General assistance that is duplicated by emergency advance SSI payments or SSI payments based on presumptive disability or presumptive blindness is not recoverable from the interim assistance reimbursement payment and shall be considered a debt.

NEW SECTION

WAC 388-275-0090 Representative payee. The secretary or the secretary's designee may act as representative payee for a child eligible for SSI benefits.

REPEALER

The following sections of the Washington Administrative Code are repealed:

| | |
|----------------|--|
| WAC 388-59-010 | State supplementary payments—Definitions. |
| WAC 388-59-020 | State supplementary payments—General provisions. |
| WAC 388-59-030 | State supplementary payments—Establishing eligibility. |
| WAC 388-59-040 | State supplementary payments—Amount. |
| WAC 388-59-045 | Separation of income and resources. |
| WAC 388-59-048 | Termination of optional state supplement. |
| WAC 388-59-050 | State supplementary payments—Additional requirements under specified circumstances—Chore services. |
| WAC 388-59-060 | State supplementary payments—Overpayment and underpayment. |
| WAC 388-59-070 | Mandatory state supplementary payments—Determining amount. |
| WAC 388-59-080 | Mandatory state supplementary payments—Reduction. |
| WAC 388-59-090 | Mandatory state supplementary payments—Termination of eligibility. |
| WAC 388-59-100 | Representative payee. |

WSR 94-01-139
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
 (Public Assistance)

[Filed December 20, 1993, 4:33 p.m.]

Original Notice.

Title of Rule: New chapter 388-217 WAC, Transfer of property; and repealing WAC 388-28-370, 388-28-457 through 388-28-465, and 388-28-470 through 388-28-473.

Purpose: Changes how department determines the start date and duration of ineligibility period; treats applicant and recipient property transfers in same manner; removes two year "lid" for ineligibility period; removes references to life estates; and includes penalty for recipients who transfer nonexempt property in order to maintain eligibility for assistance.

Statutory Authority for Adoption: RCW 74.08.335.

Statute Being Implemented: RCW 74.08.335.

Summary: Treats applicant and recipient property transfers in the same manner, regulates recipient transfers of nonexempt resources, and simplifies the method used to calculate a period of ineligibility.

Reasons Supporting Proposal: Brings rules into compliance with RCW 74.08.335.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Sandy Jsames, Division of Income Assistance, 438-8313.

Name of Proponent: Department of Social and Health Services, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Same as above.

Proposal Changes the Following Existing Rules: See above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: OB-2 Auditorium, 14th and Franklin, Olympia, Washington, on January 25, 1994, at 10:00 a.m.

If you need sign language assistance, please contact the Office of Vendor Services by January 11, 1994. TDD 753-4595 or SCAN 234-4595.

Submit Written Comments to: Identify WAC number, Dewey Brock, Chief, Office of Vendor Services, Mailstop 45811, Department of Social and Health Services, Olympia, 98504, TELEFAX 586-8487 or SCAN 321-8487, by January 18, 1994.

Date of Intended Adoption: January 26, 1994.

December 20, 1993

Dewey Brock, Chief

Office of Vendor Services

Administrative Services Division

Chapter 388-217 WAC TRANSFER OF PROPERTY

NEW SECTION

WAC 388-217-3000 Transfer of property—Definitions. (1) "Need under normal conditions of living" means the Washington state gross median income adjusted for family size, as promulgated by the secretary of Health and Human Services (HHS).

(2) "Reasonable value" means the quick-sale value of the property at the time of the property's transfer.

(3) "Transfer" means any intentional act or omission to act whereby title to or any interest in property is assigned, set over, or otherwise vested or allowed to vest in another person. Transfer includes delivery of personal property, bills of sale, deeds, mortgages, pledges or any other instrument conveying or relinquishing an interest in or control over property. Transfer of title to a resource occurs by:

(a) An intentional act or transfer; or

(b) Intentional failure to act to preserve title to the resource.

NEW SECTION

WAC 388-217-3050 Transfer of property—Assessing property transfers. (1) The department shall determine whether a client transferred property:

- (a) Within two years immediately prior to application;
- (b) During the application process; or
- (c) While the client is on assistance.

(2) When a transfer occurred within the time frames above, the department shall determine whether the client:

(a) Received adequate consideration or had a valid reason for receiving less than adequate consideration, as specified under WAC 388-217-3100; and

(b) If the client received less than adequate consideration without a valid reason, the department shall determine whether the client transferred the property with intent to qualify for assistance, as specified under WAC 388-217-3150.

(3) The transfer of separate property by a spouse who is not included in the assistance unit does not affect the eligibility of the other spouse.

NEW SECTION

WAC 388-217-3100 Transfer of property—Adequate consideration. (1) Adequate consideration exists when the reasonable value of the property transferred is equal to the reasonable value of the goods or services received in exchange for the transferred property.

(2) The market value of the transferred item acts as a guide to the reasonable value of the transferred property. However, less than market value shall be considered adequate consideration if, in view of all existing circumstances and factors, the individual's plan in regard to the transfer had any reasonable basis.

(a) Settlement or transfer of an unresolved claim (such as a claim for damages) by the transfer of property of approximately equal value is regarded as adequate consideration in the absence of evidence indicating fraud or collusion. (The advice of the applicant's attorney suggesting settlement would be substantiating evidence.)

(b) A transfer of property in settlement of a legally enforceable debt approximately equal to the current fair market value of the property transferred represents adequate consideration.

(c) The existence of a debt must be established by any of the following types of evidence:

(i) A legally recorded instrument evidencing the existence of the debt and executed at or about the time the debt was allegedly incurred;

(ii) Other documentary evidence, for example, canceled checks, receipts, notes, mortgages, or written agreements executed by the principals at or about the time the debt was allegedly incurred;

(iii) The sworn affidavits or testimony of at least two disinterested persons not parties to the transaction or directly or indirectly benefiting therefrom, who were in a position to have first-hand knowledge of the situation and arrangements between the principals at the time the debt was allegedly incurred and whose statement corroborates the sworn statement or testimony of the principals;

(iv) Such other evidence as would be accepted by a court of law to establish a debt; or

(v) Debts incurred from the services of a minor child or for loans from a minor child are not recognized as legal obligations.

(3) When a client does not receive adequate consideration for transferred property, the department shall determine whether the client had a valid reason for accepting less than adequate consideration. The department shall take the following factors into account when determining whether a client had a valid reason for accepting less than adequate consideration in exchange for the client's property:

(a) Circumstances necessitating the transaction, including the forced sale of assets;

(b) The business experience or acumen of the seller. One with little experience in business will probably not make as advantageous a deal as one who is experienced and knows how to get the best possible trade;

(c) The market demand for the type of resource transferred. Certain property, such as some securities, automobile, etc., can be readily sold; whereas other property can only be sold on forced sale to speculators, who presumably would pay very little. This might apply to real estate in a locality where there is little demand for real property;

(d) The transfer of property due to a legally enforceable foreclosure procedure; or

(e) The transfer of property by an accelerated sale due to necessity to relocate to accept employment or training or to retain a cohesive family unit.

NEW SECTION

WAC 388-217-3150 Transfer of property—Establishing intent to qualify for public assistance. (1) The client shall have the opportunity to demonstrate that the transfer was for reasons other than to qualify or maintain eligibility for public assistance.

(2) Reasons (noninclusive) below shall, if proven, establish that the transfer was not for the purpose of qualifying or maintaining eligibility for public assistance:

(a) The client was the victim of fraud, misrepresentation or coercion and the transfer was based upon such fraud, misrepresentation or coercion; provided that the client has been attempting and continues to attempt to recover the property or its equivalent value;

(b) At the time of the transfer, the client was not receiving assistance and did not consider any probable need for assistance in the foreseeable future;

(c) The property was transferred to a spouse pursuant to a divorce or legal separation settlement approved by or ordered by a court of competent jurisdiction;

(d) The client held title only as a trustee for the use and benefit of another person with no beneficial interest himself or herself;

(e) The transfer was to clear title to a resource in which the client had no real beneficial enforceable interest; or

(f) The client can show that his or her eligibility for assistance would not have been affected if he or she had retained, rather than transferred, the transferred property.

NEW SECTION

WAC 388-217-3200 Transfer of property—Effect on need. (1) The transfer shall not affect the client's eligibility for assistance if the department determines:

(a) A client received adequate consideration;

(b) A client had a valid reason for accepting less than adequate consideration; or

(c) That the transfer occurred for reasons other than with intent to qualify for assistance.

(2) If the department determines a client received less than adequate consideration without a valid reason with intent to qualify for public assistance, the department shall:

(a) Consider the property available to meet the client's needs; and

(b) Establish a period of ineligibility.

NEW SECTION

WAC 388-217-3250 Transfer of property—Period of ineligibility. (1) The department shall determine the amount of uncompensated value for property which was improperly transferred. "Uncompensated value" means the reasonable value of the transferred property, minus:

(a) Encumbrances; and

(b) The amount received; or

(c) The reasonable value of the consideration received.

(2) The department shall calculate the duration of a period of ineligibility by dividing the uncompensated value of the improperly transferred property by the monthly need under normal conditions of living as defined under WAC 388-217-3000.

(3) The minimum period of ineligibility shall be one month.

(4) The period of ineligibility shall start:

(a) For applicants, from the first of the month in the month that the improper transfer occurred; or

(b) For recipients, from the first of the month following the month that the improper transfer occurred.

(5) The department may shorten the period of ineligibility as required under WAC 388-217-3300.

(6) When an improper transfer is taken into account after assistance is authorized, the department shall determine how the improper transfer affects a recipient's eligibility for the assistance the recipient received.

(a) The department shall consider any assistance received by the assistance unit during the period of ineligibility as an overpayment, as defined under WAC 388-44-010.

(b) The department shall not determine the assistance unit as eligible to receive further assistance until the period of ineligibility has expired, unless the period of ineligibility is shortened as described under WAC 388-217-3300.

NEW SECTION

WAC 388-217-3300 Transfer of property—Adjustment in period of ineligibility. (1) The department may reduce the period of ineligibility, as determined under WAC 388-217-3250, when:

(a) The client secures a return of some or all of the transferred property, or the equivalent value of the transferred property. Under these circumstances, the department

shall reduce the period of ineligibility to reflect the value of the recovered property; or

(b) During the period of ineligibility:

(i) The client has demonstrable, unusual nonrecurrent expenses from a major unforeseen change in circumstances, such as extensive hospitalization; or

(ii) Undue hardship would exist from the denial of public assistance.

(2) Public assistance paid under this rule shall be the full grant amount and shall not be considered an overpayment.

NEW SECTION

WAC 388-217-3350 Transfer of property—Exempt resource transfers by recipients. (1) Exempt resources which a recipient may retain and remain eligible for assistance must continue to be retained to remain exempt.

(2) If a recipient transfers previously exempt resources contrary to the rules in this section or if the proceeds from the transfer are used for purposes other than described under this chapter, the department shall consider the value of the transferred resources as available to meet need and shall establish a period of ineligibility, as specified under WAC 388-217-3250.

(3) A recipient may transfer exempt personal property without affecting financial need when the recipient:

(a) Receives adequate consideration for the transferred exempt personal property;

(b) Saves, spends, or reinvests the proceeds from the transfer; and

(c) Brings the recipient's resources below the department's resource limits within sixty days from the date of the transfer.

(4) A recipient may transfer exempt real property or any interest in such property, without penalty, when the recipient meets the following conditions:

(a) The proceeds of the transfer are used to:

(i) Buy a home or to buy a life estate in a home;

(ii) Make necessary repairs or improvements on the recipient's home; and/or

(iii) Purchase any exempt personal property.

(b) The recipient receives adequate consideration for the transferred real property and for the proceeds reinvested;

(c) The recipient starts to reinvest the proceeds from the transfer within sixty days; and

(d) The recipient brings his or her resources below the department's resource limits when the exempt real property transfer and reinvestment are completed.

(5) The department may allow a reasonable delay beyond sixty days when the recipient is prevented from carrying out a reinvestment plan of exempt resources because of illness or complications involving the mechanics of the transaction.

REPEALER

The following sections of the Washington Administrative Code are repealed:

WAC 388-28-370 Community, separate and jointly owned property—Further

WAC 388-28-457

WAC 388-28-458

WAC 388-28-459

WAC 388-28-460

WAC 388-28-461

WAC 388-28-462

WAC 388-28-463

WAC 388-28-464

WAC 388-28-465

WAC 388-28-470

WAC 388-28-471

WAC 388-28-472

WAC 388-28-473

considerations for determining property of husband and wife.

Transfer of property.

Definitions.

Transfer of property with intent to qualify for public assistance.

Transfer within two years prior to application.

Transfer of property—

Adequate consideration.

Transfer of property—Exceptions.

Transfer of property—Adjustment in period of ineligibility.

Transfer of property—Assistance during period of ineligibility.

Transfer of property—Life

estate, release, assignment—

Adequate consideration.

Transfer of exempt property by recipient.

Exempt property transferable without consent.

Exempt property transferable with consent.

Property transferred contrary to WAC 388-28-471 and 388-28-472.

**WSR 94-01-140
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES**

(Institutions)

[Filed December 20, 1993, 4:35 p.m.]

Continuance of WSR 94-01-079.

Title of Rule: Chapter 275-56 WAC, new sections WAC 275-56-600 through 275-56-720, and amending WAC 275-56-015 Definitions.

Purpose: Allows implementation of the federally mandated waiver of the Title XIX program. Creates rules for managed care prepaid healthcare plans in accordance with federally approved Title XIX waiver, including client eligibility, enrollment, disenrollment, exceptions, grievances, ombuds services, quality assurance, and payment.

Name of Proponent: Department of Social and Health Services, governmental.

Date of Intended Adoption: December 22, 1994 [1993].

December 20, 1993

Dewey Brock, Chief

Office of Vendor Services

Administrative Services Division

WSR 94-01-141
PROPOSED RULES
HEALTH SERVICES COMMISSION
[Filed December 20, 1993, 4:40 p.m.]

Original Notice.

Title of Rule: Administration and operations.

Purpose: The purpose of this chapter is to ensure compliance by the agency with the provisions of chapters 42.17 and 34.05 RCW.

Statutory Authority for Adoption: Chapter 492, Laws of 1993.

Statute Being Implemented: Washington Health Services Act of 1993.

Summary: This rule describes the organization of the agency, sets forth operating procedures, declares an exemption from the Environmental Protection Act, and sets forth procedures for review and copying of public records.

Name of Agency Personnel Responsible for Drafting: Leslie Thorpe, 605 Woodland Square Loop S.E., Lacey, WA, (206) 407-0047; Implementation and Enforcement: Randy Revelle, 605 Woodland Square Loop S.E., Lacey, WA, (206) 407-0046.

Name of Proponent: Washington Health Services Commission, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The rule intended to assure agency compliance with the Administrative Procedure Act (chapter 34.05 RCW), and the Open Public Meetings Act and Open Records Act contained in chapter 42.17 RCW.

Proposal Changes the Following Existing Rules: [No information supplied by agency.]

No small business economic statement required by chapter 19.85 RCW.

Hearing Location: Providence Medical Center, Auditorium, 500 17th Avenue, Seattle, WA 98122, on January 26, 1994, at 5:00 p.m.

Submit Written Comments to: Leslie Thorpe, P.O. Box 41185, Olympia, WA 98504-1185, by January 27, 1994.

Date of Intended Adoption: January 28, 1994.
December 20, 1993
Bernadene Dochnahl
Chair

WASHINGTON HEALTH SERVICES COMMISSION

Washington Administrative Code (WAC)
Chapter 245-01
Administration and Operations

Organization, Operations, and Procedures

NEW SECTION

WAC 245-01-010 Purpose. The purpose of this chapter is to ensure compliance by the Washington Health Services Commission with the provisions of chapters 42.17 and 34.05 of the Revised Code of Washington (RCW).

NEW SECTION

WAC 245-01-020 Definitions. (1) "Act" means the Washington Health Services Act of 1993, chapter 492, laws of 1993 as amended by chapter 494, laws of 1993.

(2) "Commission" means the Washington Health Services Commission created by RCW 43.72.020 and also refers to employees of the Commission.

(3) "Public record" means any writing containing information relating to the conduct of government or the performance of any governmental or proprietary function prepared, owned, used, or retained by any state or local agency regardless of physical form or characteristics.

(4) "Writing" means handwriting, typewriting, printing, photostating, photographing, and every other means of recording any form of communication or representation, including but not limited to, letters, words, pictures, sounds or symbols, or any combination thereof, and all papers, maps, magnetic or paper tapes, photographic films and prints, motion pictures, film and video recordings, magnetic or punch cards, disks, drums, diskettes, sound recordings, and other documents, including existing data compilations from which information may be obtained or translated.

The terms defined in the Act shall have the same meaning when used in Title 245 WAC.

NEW SECTION

WAC 245-01-030 Description of organization. The Commission is a public agency established under the provisions of chapter 43.72 RCW, which exercises essential government functions. The Commission consists of five full-time members appointed by the Governor, subject to confirmation by the state senate. One member is designated by the Governor as chair. The Insurance Commissioner serves *ex officio* as a non-voting member. Commissioners shall have no pecuniary interest in any business subject to regulation by the Commission and are subject to chapter 42.18 RCW, the Executive Branch Conflict of Interest Act. Commissioners and the professional Commission staff are subject to the public disclosure provisions of chapter 42.17 RCW. The administrative office of the Commission is located at the Employment Security Building, 605 Woodland Square Loop Southwest, Lacey, Washington.

NEW SECTION

WAC 245-01-040 Operations and procedures. (1) **Uniform procedure rules:** The Commission's practices and procedures are governed by the Uniform Procedure Rules codified in WAC 1-08-005 through 1-08-590, as now or hereafter amended. The Commission adopts these rules as its own, subject to any additional rules the Commission may add from time to time. The Commission reserves the right to make whatever determinations are equitable should any question covered by its rules come before the Commission, as long as these determinations are in accordance with the spirit and intent of the Act.

(2) **Commission meetings:**

(a) Regular public meetings of the Commission will be held pursuant to the schedule published annually in the Washington State Register. The purpose of these meetings

shall be to conduct the official, substantive business of the Commission;

(b) Additional special public meetings necessary to discharge the official, substantive business of the Commission may be called from time to time by the chair or by a quorum of the Commission;

(c) Commission staff meetings will be held pursuant to the schedule published annually in the Washington State Register. The purposes of these informal meetings are to deal with administrative matters, conduct briefings and other presentations, present status reports, share information among commissioners and staff, and determine processes for conducting Commission business. These meetings will not involve public testimony, formal recommendations, substantive decisions on work program tasks, and other final actions, all of which will be addressed at regular and special commission meetings.

(3) **Quorum:** three voting commissioners shall constitute a quorum. The act of a majority of the voting commissioners present at any meeting, if there is a quorum, shall be deemed the act of the Commission.

(4) **Minutes of meetings:** Minutes shall be kept of the proceedings of the Commission.

(5) **Rules of order:** The Commission shall generally follow Robert's Rules of Order, newly revised, in conducting its regular and special meetings.

(6) **Financial interest:** No employee of the Commission shall have a direct financial interest in any business subject to regulation by the Commission.

NEW SECTION

WAC 245-01-050 Commission activities exempt from the Environmental Protection Act. The Commission has reviewed its authorized activities and has found them to be exempt pursuant to WAC 197-10-040(2), 197-10-150 through 197-10-190 and the State Environmental Policy Act, chapter 43.21 RCW.

Public Records

NEW SECTION

WAC 245-010-060 Public records available. All public records of the Commission are deemed to be available for public inspection and copying at the Commission's administrative office pursuant to these rules, except as otherwise provided by RCW 42.17.310, the Act, and other laws.

Reviser's note: The above new section was filed by the agency as WAC 245-010-060. This section is placed among sections forming new chapter 245-01 WAC, and therefore should be numbered WAC 245-01-060. Pursuant to the requirements of RCW 34.08.040, the section is published in the same form as filed by the agency.

NEW SECTION

WAC 245-01-070 Public records officer. The Commission's public records shall be under the charge of the public records officer designated by the Commission chair. The person so designated shall be responsible for implementing these rules and regulations regarding the release of public records, and generally for ensuring compliance with

the public records disclosure requirements of chapter 42.17 RCW and, in particular, RCW 42.17.250 through .340.

NEW SECTION

WAC 245-010-080 Office hours. Public records shall be available for inspection and copying at the Commission's administrative office, from 9:00 a.m. to noon and from 1:00 p.m. to 4:00 p.m., Mondays through Fridays, excluding legal holidays.

Reviser's note: The above new section was filed by the agency as WAC 245-010-080. This section is placed among sections forming new chapter 245-01 WAC, and therefore should be numbered WAC 245-01-080. Pursuant to the requirements of RCW 34.08.040, the section is published in the same form as filed by the agency.

NEW SECTION

WAC 245-01-090 Requests for public records. In accordance with the provisions of chapter 42.17 RCW requiring agencies to prevent unreasonable invasions of privacy, protect public records from damage or disorganization, and prevent excessive interference with essential functions of the agency, public records of the Commission may be inspected or copied, or copies of such records may be obtained, by members of the public upon compliance with the following procedures:

(1) A request shall be made in writing upon a form prescribed by the Commission which shall be available at its administrative office. A completed form shall be presented to any member of the Commission staff at the Commission's administrative office during customary office hours. The request shall include the following information:

(a) The name, mailing address, and telephone number of the person requesting the record and the organization represented, if any.

(b) The time of day and calendar date on which the request was made.

(c) A description of the material requested.

(d) If the matter requested is referenced within the current index maintained by the records officer, a reference to the requested record as it is described in such current index.

(e) If the requested matter is identifiable by reference to a current index, an appropriate identification of the record requested.

(2) In all cases in which a member of the public is making a request, it shall be the obligation of the commissioner or staff member to whom the request is made to assist the member of the public in appropriately identifying the public record requested.

NEW SECTION

WAC 245-01-100 Responses to requests for public records. Within five business days of receiving a public records request, the Commission must respond by either:

(1) providing the records;

(2) denying the public records request; or

(3) acknowledging that the Commission has received the request and providing a reasonable estimate of the time the Commission will require to respond to the request. Additional time required to respond to a request may be based

upon the need to clarify the intent of the request, to locate and assemble the information requested, to ify third persons or agencies affected by the request, or to determine whether any of the information requested is exempt and that a denial should be made as to all or part of the request. In acknowledging receipt of a public records request that is unclear, the Commission may ask the requestor to clarify what information the requestor is seeking. If the requestor fails to clarify the request, the Commission need respond to it.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 245-01-110 Copying. No fee shall be charged for the inspection of public records. The Commission shall charge 25 cents per page for providing copies or duplications of public records, and for use of the Commission's photocopy equipment. The charge is the amount necessary to reimburse the Commission for its actual copying costs. When copying or duplication of non-standard items is requested, the fee charged will reflect the total cost, including the time of Commission personnel.

NEW SECTION

WAC 245-01-120 Exemptions. (1) The Commission reserves the right to determine that a public record requested in accordance with the procedures outlined in WAC 245-01-090 is exempt under the provisions of RCW 42.17.310, including, but limited to, the following:

- (a) Personal information in files maintained for commissioners and employees of the Commission to the extent that disclosure would violate their right to privacy;
- (b) Preliminary drafts, es, recommendations, and intra-agency memoranda in which opinions are expressed or policies formulated or recommended, except that a specific record shall be exempt when publicly cited by the Commission in connection with any Commission action;
- (c) All applications for public employment, including the names of applicants, resumes, and other related materials submitted with respect to an applicant;
- (d) The residential addresses and telephone numbers of employees or volunteers of a public agency which are held by the agency in personnel records, employment or volunteer rosters, or mailing lists of employees or volunteers.

(2) Pursuant to RCW 42.17.260, the Commission reserves the right to delete identifying details when it makes available or publishes any public records in all cases when there is reason to believe that disclosure of such details would be an invasion of personal privacy protected by chapter 42.17 RCW. The Commission will fully justify such deletion in writing.

(3) All public records otherwise exempt by law shall be considered exempt under these rules.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 245-01-130 Review or denial of public records requests. Any person who objects to a denial of a public records request or who objects to the reasonableness of the estimate of the time the Commission requires to respond to a public records request, shall petition the superior court in the county in which the record is maintained under the provisions of RCW 42.17.340.

NEW SECTION

WAC 245-01-140 Protection of public records. In order to protect the public records in the custody of the Commission, the following guidelines shall be followed by any person inspecting such public records:

- (1) No public records shall be removed from the Commission's administrative office;
- (2) Inspection of any public records shall be conducted in the presence of a commissioner or a member of the Commission staff;
- (3) No public record may be marked or defaced in any manner during inspection;
- (4) Public records maintained in a file jacket or binder, or in chronological order, may be dismantled except for the purpose of copying, and then only by a Commissioner or a member of the Commission staff; and
- (5) Access to file cabinets, shelves, vaults, and other storage locations is restricted to commissioners and staff.

NEW SECTION

WAC 245-01-150 Records index. (1) The Commission shall make available to all persons a current index which provides identifying information for records which have been issued, adopted, or promulgated, as follows:

- (a) Those statements of policy and interpretations of policy, statute, and the Constitution which have been adopted by the Commission;
- (b) Administrative staff manuals and instructions to staff that affect any member of the public;
- (c) Commission planning policies and goals, and interim and final planning decisions;
- (d) Staff, consultant, and scientific reports and studies and any other factual information derived from tests, studies, reports, or surveys, whether conducted by public employees or others; and
- (e) Correspondence and materials referred to therein relating to any regulations, supervisory, or enforcement responsibilities of the Commission.

(2) The current index promulgated by the Commission shall be available for inspection by all persons under the same rules and on the same conditions as are applied to public records available for inspection.

WSR 94-01-142
PROPOSED RULES
DEPARTMENT OF HEALTH
 [Filed December 21, 1993, 8:15 a.m.]

Original Notice.

Title of Rule: Chapter 246-247 WAC, Radiation protection—Air emissions; and WAC 246-254-160 Radiation protection—fees.

Purpose: To update existing regulations related to radioactive air emission to conform with federal requirements and to clarify the application, registration and licensing process.

Statutory Authority for Adoption: RCW 70.98.050 and [70.98].080.

Statute Being Implemented: Chapter 70.98 RCW.

Summary: Many changes in the federal Clean Air Act and its implementing federal regulations, as well as day-to-day experience in managing the radioactive air emission program, have made it necessary to substantially amend the existing regulations in chapter 246-247 WAC; also, minor changes in the existing fee regulations are proposed.

Name of Agency Personnel Responsible for Drafting: Don Peterson, Airdustrial Park, Building 5, Mailstop 7827, Olympia, 98504, (206) 586-3310; Implementation and Enforcement: Al Conklin, Airdustrial Park, Building 5, Mailstop 7827, Olympia, 98504, (206) 586-0254.

Name of Proponent: Department of Health, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The purpose is three-fold: To update the applicable emission standards which are referenced; to substantially enhance the clarification of the existing regulations in chapter 246-247 WAC. This gives the regulated community a much cleaner picture of what is expected of them and formally lays out how our enforcement program is implemented; and a necessary prerequisite to receiving EPA delegation of authority. The anticipated effect of this rule making is minimal, since it essentially requires nothing new. Its main effect will be to give the program a set of regulations with much less ambiguity and to fill in missing gaps of the existing regulations.

Proposal Changes the Following Existing Rules: Update of the emission standards referenced in 40 CFR Part 61, Subparts H and I. The standards were changed (more stringent) in 1989; and substantially enhance details of application, registration, licensing process, reporting and recordkeeping, quality assurance, compliance determination procedures.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Conference Room, Building 5, Airdustrial Park, Tumwater, Washington 98501, on January 26, 1994, at 10 a.m.

Submit Written Comments to: Ann Foster, Rules Coordinator, P.O. Box 47902, Olympia, WA 98504-7902, by January 25, 1994.

Date of Intended Adoption: January 31, 1994.

December 20, 1993

Bruce Miyahara
Secretary

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-001 Purpose. The purpose of this chapter is to establish ~~((procedures for the monitoring, control, and reporting of airborne radionuclide emissions from specific sources to assure compliance with applicable standards))~~ application requirements and procedures for the issuance of a radioactive air emissions license and for the regulation of those emissions by the department of health ~~(hereinafter referred to as "the department")~~ to assure compliance with the standards for radioactive air emissions set by the department of ecology pursuant to RCW 70.94.331, promulgated in chapter 173-480 WAC, and with the rules and regulations of this chapter.

NEW SECTION

WAC 246-247-002 Authority. (1) Rules and regulations set forth herein are adopted and enforced by the department pursuant to the provisions of chapter 70.98 RCW which:

(a) Designate the department as the state's radiation control agency having sole responsibility for the administration of the regulatory, licensing, and radiation control provisions of chapter 70.98 RCW;

(b) Vest in the department the authority to formulate, adopt, promulgate, and repeal codes, rules, and regulations related to the control of sources of ionizing radiation;

(c) Authorize the department to implement an independent state-wide program to monitor radioactive air emissions from sources within the state;

(d) Authorize the department to conduct inspections of facilities, both private and public, to determine whether or not there is compliance with or violation of the provisions of chapter 70.98 RCW and rules and regulations issued thereunder; and

(e) Authorize the department to require registration of sources of ionizing radiation.

(2) In addition, RCW 70.94.422 (Washington Clean Air Act) grants to the department the enforcement powers contained in that chapter.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-010 Applicability. (1) The standards and requirements of this chapter ((shall)) apply state-wide((- These provisions apply to)) at the following types of facilities that emit radionuclides to the air:

~~((1))~~ (a) Facilities licensed by the department or by the United States Nuclear Regulatory Commission (NRC);

~~((2))~~ (b) United States Department of Energy (DOE) facilities;

~~((3))~~ (c) Non-DOE federal facilities ~~((that emit radionuclides to the air; and~~

~~(4) Any other facilities having emissions of radionuclides to the air in amounts that can potentially cause a dose equivalent in excess of five mrem/year to the whole body or 15 mrem/year to the critical organ of any member of the public.~~

~~(5) These provisions do not apply to facilities regulated under other state authorities, specifically:~~

- ~~(a) Uranium mill sites (chapter 402-52 WAC);~~
- ~~(b) Nuclear power reactors (chapter 463-54 WAC));~~
- ~~(d) Uranium fuel cycle facilities;~~
- ~~(e) Uranium mills that are processing material; and~~
- ~~(f) Any other facility that the department determines emits or has the potential to emit radionuclides to the ambient air.~~

(2) The standards and requirements of this chapter apply to point sources, nonpoint sources, and fugitive emissions.

(3) The standards and requirements of this chapter apply to stationary and mobile emission units, whether temporary or permanent.

(4) The control technology standards and requirements of this chapter apply to the abatement technology and indication devices of facilities and emission units subject to this chapter. Control technology requirements apply from entry of radionuclides into the vapor space to the point of release to the environment.

(5) In accordance with RCW 70.94.161(10), air operating permits issued under chapter 173-401 WAC shall incorporate all applicable requirements of this chapter. Therefore, all facilities listed in subsection (1) of this section that are also subject to the operating permit regulations in chapter 173-401 WAC shall be considered in compliance with the requirements of this chapter if they comply with all the applicable requirements of the air operating permit issued under chapter 173-401 WAC. These applicable requirements shall be contained in the radioactive air emissions license which shall be incorporated as part of the air operating permit. In accordance with RCW 70.94.422(1), the department shall enforce all the requirements contained in the radioactive air emissions license.

(6) Should any of the federal regulations that have been adopted by reference in this chapter be rescinded, the affected facilities shall nonetheless comply with all other applicable requirements of this chapter.

(7) An applicant may obtain a copy of any document referenced in this chapter by contacting the department's division of radiation protection, air emissions and defense wastes section at (206) 586-5504. Reports, applications, and other written correspondence should be mailed to the Air Emissions and Defense Wastes Section at Airdustrial Park, Building 5, P.O. Box 47827, Olympia, Washington, 98504-7827.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-020 Exemptions. (1) The following types of facilities (~~listed in Table I~~) or sources of radiation are exempt from the requirements of this chapter because they (~~either~~) release no airborne radioactivity, or (~~because it has been determined that~~) they (~~would~~) prima facie (~~be in compliance~~) comply with the standards(-) in WAC 246-247-040, or they are already adequately regulated under other requirements:

TABLE I

- ~~((1)) (a) Users of only sealed sources(-);~~
- ~~((2) Low energy) (b) Sealed sources;~~

- ~~(c) Accelerators (~~((<))~~) less than 200 MeV(-);~~
- ~~((3) Reserved.) (d) Nuclear-powered vessels underway or moored dockside unless under a maintenance condition with a potential-to-emit;~~

(e) Uranium mill tailings piles disposed of under 40 CFR Part 192.

(2) Exemption determinations.

(a) Any exemptions shall be consistent with 40 CFR 61. No exemptions from the standards in WAC 246-247-040 will be granted.

(b) A nonfederal facility may request exemption from some of the requirements of WAC 246-247-060 and 246-247-075 if the potential-to-emit, for the emission unit(s) under consideration, results in compliance at level I of the COMPLY computer code or level I of the NCRP's Commentary No. 3, or equivalent as approved by EPA or the department.

(c) A federal facility may request exemption from some of the requirements of WAC 246-247-060 and 246-247-075 if the potential-to-emit, for the emission unit(s) under consideration, results in a CEDE to the MEI from all pathways less than 0.1 mrem/yr.

(d) The facility shall submit all the data necessary to make the exemption determinations of (b) and (c) of this subsection. The department shall determine if any exemptions apply.

(e) A facility is exempt from the annual reporting requirements of WAC 246-247-080 for those emission units where the potential-to-emit is *de minimus*. The facility shall annually make a new determination of exemption from reporting *de minimus* emissions. This determination shall be kept on file for at least five years.

(3) The department may require a facility with exempt emission units to submit a radioactive air emissions report to confirm compliance with applicable standards. The department reserves the right to conduct inspections and audits of the facility to confirm the status of its exempt emission units.

(4) Naturally occurring airborne radionuclides are exempt from the requirements of this chapter unless the concentrations or rates of emissions have been enhanced by industrial processes.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-030 Definitions. ((As)) Terms used in this chapter(~~, these terms~~) have the definitions set forth below with references to radioactive air emissions.

((1) "Best available radionuclide control technology (BARCT)" means technology which will result in a radionuclide emission limitation based on the maximum degree of reduction for radionuclides which would be emitted from any proposed stationary source or modification of a source which the permitting authority on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques. In no event shall application of best available

radionuclide technology result in emissions of radionuclides which would exceed the ambient annual standard limitation specified in this chapter.

(2) "~~Critical organ~~" means the most exposed human organ or tissue exclusive of the integumentary system (skin) and the cornea.

(3) "~~Department~~" means the department of social and health services.

(4) "~~Dose equivalent~~" means the product of absorbed dose and appropriate factors to account for differences in biological effectiveness due to the quality of radiation and its distribution in the body. Units of dose equivalent are mrem.

(5) "~~Emission source~~" means the point of release of airborne emissions of radioactive materials.

(6) "~~Radionuclide~~" means any nuclide that emits radiation.

(7) "~~Whole body~~" means all human organs or tissue exclusive of the integumentary system (skin) and the cornea.)

(1) "Abatement technology" means any mechanism, process or method that has the potential to reduce public exposure to radioactive air emissions. Abatement control features include automatic mechanisms and administrative controls used in the operation and control of abatement technology from entry of radionuclides into the ventilation vapor space to release to the environment.

(2) "Administrative control" means any policy or procedure that limits the emission of radionuclides.

(3) "ALARA" means as low as reasonably achievable making every reasonable effort to maintain exposures to radiation as far below the dose standards in this chapter as is practical, consistent with the purpose for which the licensed activity is undertaken, taking into account the state of technology, the economics of improvements in relation to the state of technology, the economics of improvements in relation to benefits to the public health and safety, and other socioeconomic considerations, and in relation to the utilization of nuclear energy, ionizing radiation, and radioactive materials in the public interest. See WAC 246-220-007.

(4) "As low as reasonably achievable control technology" (ALARACT) means the use of radionuclide emission control technology that achieves emission levels that are consistent with the philosophy of ALARA. ALARACT compliance is demonstrated by evaluating the existing control system and proposed nonsignificant modifications in relation to applicable technology standards and other control technologies operated successfully in similar applications. In no event shall application of ALARACT result in emissions of radionuclides that could cause exceedance of the applicable standards of WAC 246-247-040. See the definition of ALARA in this section. Note that ALARACT is equivalent to, but replaces, RACT in the May 7, 1986, version of chapter 173-480 WAC.

(5) "Annual possession quantity" means the sum of the quantity of a radionuclide on hand at the beginning of the calendar year and the quantity of that radionuclide received or produced during the calendar year.

(6) "Best available radionuclide control technology" (BARCT) means technology that will result in a radionuclide emission limitation based on the maximum degree of reduction for radionuclides from any proposed newly constructed or significantly modified emission units that the licensing authority determines is achievable on a case-by-

case basis. A BARCT compliance demonstration must consider energy, environmental, and economic impacts, and other costs through examination of production processes, and available methods, systems, and techniques for the control of radionuclide emissions. A BARCT compliance demonstration is the conclusion of an evaluative process that results in the selection of the most effective control technology from all known feasible alternatives. In no event shall application of BARCT result in emissions of radionuclides that could exceed the applicable standards of WAC 246-247-040. Control technology that meets BARCT requirements also meets ALARACT requirements. See WAC 173-480-030 and 246-247-120.

(7) "Committed effective dose equivalent" (CEDE) means the sum of the products of absorbed dose and appropriate factors to account for differences in biological effectiveness due to the quality of radiation and its distribution in the body of reference man over a fifty-year period.

(8) "Construction" means fabrication, erection, or installation of a new building, structure, plant, process, or operation within a facility that has the potential to emit airborne radionuclides. Construction includes activities of a permanent nature aimed at completion of the emission unit, such as pouring concrete, putting in a foundation, or installing utilities directly related to the emission unit. It does not include preliminary activities such as tests to determine site suitability, equipment procurement and storage, site clearing and grading, and the construction of ancillary buildings.

(9) "Decommissioning" means actions taken to reduce or eliminate the potential public health and safety impacts of a building, structure, or plant that has permanently ceased operations, including, but not limited to, actions such as decontamination, demolition, and disposition.

(10) "De minimus" means radioactive air emissions where:

(a) The concentration of each radionuclide at the point of emission to the atmosphere does not exceed its respective table value listed in 40 CFR Part 61, Appendix E, Table 2; and

(b) For the emission of multiple radionuclides, the sum of the fractions, that result when each radionuclide concentration at the point of emission to the atmosphere is divided by its respective table value, does not exceed unity.

(11) "Emission unit" means any single location that emits or has the potential to emit airborne radioactive material. This may be a point source, nonpoint source, or source of fugitive emissions.

(12) "Facility" means all buildings, structures, plants, processes, and operations on one contiguous site under control of the same owner or operator.

(13) "Fugitive emissions" are radioactive air emissions which do not and could not reasonably pass through a stack, vent, or other functionally equivalent structure, and which are not feasible to directly measure and quantify.

(14) "Indication device" means any method or apparatus used to monitor, or to enable monitoring, the operation of abatement controls or the potential or actual radioactive air emissions.

(15) "License" means a radioactive air emissions license, either issued by the department or incorporated by the department as an applicable portion of an air operating permit issued by the department of ecology or a local air

pollution control authority, with requirements and limitations listed therein to which the licensed or permitted party must comply. Compliance with the license requirements shall be determined and enforced by the department.

(16) "Maximally exposed individual" (MEI) means any member of the public (real or hypothetical) who abides or resides in an unrestricted area, and may receive the highest CEDE from the emission unit(s) under consideration, taking into account all exposure pathways affected by the radioactive air emissions.

(17) "Modification" means any physical change in, or change in the method of operation of, an emission unit that could increase the amount of radioactive materials emitted or may result in the emission of any radionuclide not previously emitted. This definition includes the cleanup of land contaminated with radioactive material, the decommissioning of buildings, structures, or plants where radioactive contamination exists, and changes that will cause an increase in the emission unit's operating design capacity. This definition excludes routine maintenance, routine repair, replacement-in-kind, any increases in the production rate or hours of operation, provided the emission unit does not exceed the release quantities specified in the license application or the operating design capacity approved by the department, addition of abatement technology as long as it is not less environmentally beneficial than existing, approved controls, and changes that result in an increase in the quantity of emissions of an existing radionuclide that will be offset by an equal or greater decrease in the quantity of emissions of another radionuclide that is deemed at least as hazardous.

(18) "Monitoring" means the measurement of radioactive material released to the ambient air by means of an in-line radiation detector, and/or by the withdrawal of representative samples from the effluent stream. Ambient air measurements may be acceptable for nonpoint sources and fugitive emissions.

(19) "Nonpoint source" is a location at which radioactive air emissions originate from an area, such as contaminated ground above a near-surface waste disposal unit, whose extent may or may not be well-defined.

(20) "Notice of construction" (NOC) is an application submitted to the department by an applicant that contains information required by WAC 246-247-060 for proposed construction or modification of a registered emission unit(s), or for an existing, unregistered emission unit(s).

(21) "Point source" is a discrete, well-defined location from which radioactive air emissions originate, such as a stack, vent, or other functionally equivalent structure.

(22) "Potential-to-emit" means the rate of release of radionuclides from an emission unit based on the actual or potential discharge of the effluent stream that would result if all abatement control equipment did not exist, but operations are otherwise normal. Determine the potential-to-emit by one of the following methods:

(a) Multiply the annual possession quantity of each radionuclide by the release fraction for that radionuclide, depending on its physical state. Use the following release fractions:

- (i) 1 for gases;
- (ii) 10^{-3} for liquids or particulate solids; and
- (iii) 10^{-6} for solids.

Determine the physical state for each radionuclide by considering its chemical form and the highest temperature to which it is subjected. Use a release fraction of one if the radionuclide is subjected to temperatures at or above its boiling point; use a release fraction of 10^{-3} if the radionuclide is subjected to temperatures at or above its melting point, but below its boiling point. If the chemical form is not known, use a release fraction of one for any radionuclide that is heated to a temperature of one hundred degrees Celsius or more, boils at a temperature of one hundred degrees Celsius or less, or is intentionally dispersed into the environment. Other release fractions may be used only with the department's approval; or

(b) Perform a back-calculation using measured emission rates and *in situ* measurements of the control equipment efficiencies, as approved by the EPA and the department; or

(c) Measure the quantities of radionuclides captured in each control device, coupled with *in situ* measurements of the control equipment efficiencies, as approved by the EPA and the department; or

(d) Sample the effluent upstream from all control devices, as approved by the EPA and the department; or

(e) Use an alternative method approved by EPA and the department.

(23) "Replacement-in-kind" means the substitution of existing systems, equipment, components, or devices of an emission unit's control technology with systems, equipment, components, or devices with equivalent, or better, performance specifications that will perform the same function(s).

(24) "Routine" means:

(a) Maintenance, repair, or replacement-in-kind performed on systems, equipment, components, or devices of an emission unit's abatement technology as a planned part of an established inspection, maintenance, or quality assurance program that does not increase the emission unit's operating design capacity; or

(b) Normal, day-to-day operations of a facility.

(25) "Sealed source" means radioactive material that is permanently bonded or fixed in a capsule or matrix, or radioactive material in airtight containers, designed to prevent release and dispersal of the radioactive material under the most severe conditions encountered in normal use and handling.

(26) "Significant" means the potential-to-emit airborne radioactivity at a rate that could increase the CEDE to the MEI by at least 1.0 mrem/yr as a result of a proposed modification.

(27) "Uranium fuel cycle" means the operations of milling uranium ore, chemical conversion of uranium, isotopic enrichment of uranium, fabrication of uranium fuel, generation of electricity in a nuclear power plant that uses uranium fuel, and reprocessing of spent uranium fuel, to the extent that these operations solely support the production of electrical power for public use. Excluded are mining operations, waste disposal sites, transportation of any radioactive material, and the reuse of recovered nonuranium special nuclear and by-product materials from the cycle.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-040 Standards. ((The ambient air quality standards and emission limits for radionuclides shall be those promulgated by the department of ecology in chapter 173-480 WAC. The WDOE ambient standard requires that emissions of radionuclides to the air shall not cause a dose equivalent of more than 25 mrem/year to the whole body or 75 mrem/year to a critical organ of any member of the public. Doses due to Radon-220, Radon-222, and their respective decay products are excluded from this chapter. These standards are consistent with Environmental Protection Agency Final Rules for National Emission Standards for Hazardous Air Pollutants (Standards for Radionuclides published in 40 CFR Part 61 on February 6, 1985).)) (1) Standards for radioactive air emissions in the state of Washington are contained in WAC 173-480-040, 173-480-050, and 173-480-060 and in 40 CFR Part 61, subparts H and I published in the Federal Register on December 15, 1989. In accordance with WAC 173-480-050(3), the department shall enforce the most stringent standard in effect, notwithstanding any agreement between EPA and any other agency, including those agreements made pursuant to 42 USC 7412(d)(9).

(2) In addition to the radioactive air emission standards of subsection (1) of this section, radioactive materials licensees shall comply with the limitations on radioactive air emissions contained in WAC 246-221-070.

(3) All new construction and significant modifications of emission units commenced after August 10, 1988 (the date this chapter originally became effective) shall utilize BARCT (see Appendix B).

(4) All existing emission units and nonsignificant modifications shall utilize ALARACT (see Appendix C).

(5) In order to implement these standards, the department may set limits on emission rates for specific radionuclides from specific emission units and/or set requirements and limitations on the operation of the emission unit(s) as specified in a license.

(6) All emissions of radionuclides, including those due to emergency conditions resulting from startup, shutdown, maintenance activities, or process upsets are subject to the standards of this section and, therefore, subject to the enforcement actions of WAC 246-247-100.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-060 ((Airborne emission permits.)) Applications, registration and licensing. ((Each operator of radioactive airborne emission sources shall obtain a permit issued by the department to operate those sources. The department shall grant these permits only after receipt of the appropriate fees and registration materials and a full review of those materials by the department.

(1) For emission sources at facilities licensed by the department, air emission permits shall be part of the source operator's radioactive materials license.

(2) For emission sources at the United States Department of Energy (DOE) Hanford Site, the department shall issue one permit for each major production, processing, or research area, e.g., 200 East Area.

(3) For emission sources at non-DOE federal facilities, the department shall issue one permit for each base or installation, e.g., Puget Sound Naval Shipyard.)) This section describes the information requirements for approval to construct and to operate an emission unit. Any notice of construction (NOC) requires the submittal of the information listed in Appendix A. Complex projects may require additional information. The applicant should contact the department early in the conceptual design phase for guidance on applicable control technologies to consider.

Appendices B and C outline the procedures to demonstrate compliance with the BARCT and ALARACT standards. Based on the Appendix A information provided, the department may advise the applicant which subset of technologies to consider as candidates for meeting BARCT or ALARACT requirements.

For those facilities subject to the operating permit regulations in chapter 173-401 WAC, the radioactive air emissions license will be incorporated as an applicable portion of the air operating permit issued by the department of ecology or a local air pollution control authority. The department will be responsible for determining the facility's compliance with and enforcing the requirements of the radioactive air emissions license.

(1) Requirements for new construction or modification of emission units.

(a) Early in the design phase, the applicant shall submit a NOC containing the information required in Appendix A.

(b) Within thirty days of receipt of the NOC, the department shall inform the applicant if additional information is required. The department may determine, on the basis of the information submitted, that the requirements of BARCT or ALARACT have been met, or may require the applicant to submit a BARCT or ALARACT demonstration compatible with Appendix B or C, respectively.

(c) Within sixty days of receipt of all required information, the department shall issue an approval or denial to construct. The department may require changes to the final proposed control technology.

(d) The applicant may request a phased approval process by so stating and submitting a limited application. The department may grant a conditional approval to construct for such activities as would not preclude the construction or installation of any control or monitoring equipment required after review of the completed application.

(e) The department shall issue a license, or amend an existing license, authorizing operation of the emission unit(s) when the proposed new construction or modification is complete. For facilities subject to the air operating permit requirements of chapter 173-401 WAC, the license shall become part of the air operating permit issued by the department of ecology or a local air pollution control authority. For new construction, this action shall constitute registration of the emission unit(s).

(2) Requirements for unregistered emission units that are not exempt from these regulations.

(a) The applicant shall submit an application containing the information required in Appendix A.

(b) Within thirty days of receipt of the application, the department shall inform the applicant if additional information is required. The department may determine, on the basis of the information submitted, that the requirements of

BARCT or ALARACT have been met, or may require the applicant to submit a BARCT or ALARACT demonstration compatible with Appendix B or C, respectively.

(c) Within sixty days of receipt of all required information, the department shall issue or amend the license. For facilities subject to the air operating permit requirements of chapter 173-401 WAC, the license shall become part of the air operating permit issued by the department of ecology or a local air pollution control authority. This action shall constitute registration of the emission unit(s). A determination of noncompliance may result in the issuance of a notice of violation.

(d) The department reserves the right to require the owner of an existing, unregistered emission unit to make modifications necessary to comply with the applicable standards of WAC 246-247-040.

(3) If an emission unit is in violation of any standards contained in WAC 246-247-040, the facility shall either submit a compliance plan which describes how it intends to achieve compliance with the standards, and/or cease operation of the emission unit(s). The facility shall submit the compliance plan within forty-five days of the notice of violation. The cessation of operation of the emission unit(s) shall not necessarily exempt the facility from the requirements of this chapter if active or passive ventilation and radioactive air emission controls will still be required. The department reserves the right to take further enforcement action, if necessary, in accordance with WAC 246-247-100.

(4) The facility shall notify the department at least seven calendar days prior to any planned preoperational tests of new or modified emission units that involve emissions control, monitoring, or containment systems of the emission unit(s). The department reserves the right to witness or require preoperational tests involving the emissions control, monitoring, or containment systems of the emission unit(s).

(5) The license shall specify the requirements and limitations of operation to assure compliance with this chapter. The facility shall comply with the requirements and limitations of the license.

(6) All radioactive air emissions licenses issued by the department, except those issued to radioactive materials licensees, shall have an expiration date of five years from date of issuance or as specified in the air operating permit. For radioactive material licensees, the requirements and limitations for the operation of emission units shall be incorporated into their radioactive materials license, and shall expire when the radioactive materials license expires.

(7) Each federal facility that comes under the authority of this chapter shall hold one license for each site, base, or installation. When applicable, the license shall be part of the facility's air operating permit.

(8) Facilities may request a single categorical license which identifies limits and conditions of operation for similar multipurpose temporary and/or portable emission units. When applicable, the license shall be part of the facility's air operating permit.

(9) All facilities with licensed emission units, except for radioactive materials licensees, shall submit a request to the department for renewal of their radioactive air emissions license at least sixty days prior to expiration of the license or as required by the air operating permit. All renewal requests shall include a summary of the operational status of

all emission units, the status of facility compliance with the standards of WAC 246-247-040, and the status of any corrective actions necessary to achieve compliance with the requirements of this chapter. Facilities with licensed emission units that also hold a radioactive materials license issued by the department shall submit this information along with their radioactive material license renewal submittal. If the department is unable to renew a radioactive air emissions license before its expiration date, the existing license, with all of its requirements and limitations, remains in force until the department either renews or revokes the license.

(10) For commercial nuclear power plants or any other thermal energy facility subject to chapter 80.50 RCW and to the requirements of this chapter, the radioactive air emissions license and amendments thereto shall be made part of the site certification agreement issued by the Energy Facility Site Evaluation Council (EFSEC). License requirements pertaining to radioactive air emissions shall be enforced by the department under the provisions of this chapter.

NEW SECTION

WAC 246-247-065 Fees. (1) All facilities under the authority of this chapter shall submit fees in accordance with WAC 246-254-160.

(2) Those facilities required by WAC 246-254-160(2) to submit an application fee, shall submit the fee with the application.

NEW SECTION

WAC 246-247-075 Monitoring, testing and quality assurance. (1) All radioactive air emissions monitoring, testing, and quality assurance requirements of 40 CFR 61, Subparts H and I published in the *Federal Register* on December 15, 1989, are adopted by reference, as applicable as specified by the referenced subparts.

(2) Equipment and procedures used for the continuous monitoring of radioactive air emissions shall conform, as applicable, to the guidance contained in ANSI N13.1, ANSI N42.18, ANSI N323, ANSI N317, reference methods 1, 1A, 2, 2A, 2C, 2D, 4, 5, and 17 of 40 CFR Part 60, Appendix A, 40 CFR Part 52, Appendix E, and any other methods that are approved by EPA or the department.

(3) The operator of an emission unit with a potential-to-emit of less than 0.1 mrem/yr CEDE to the MEI may estimate those radionuclide emissions, in lieu of monitoring, in accordance with 40 CFR 61 Appendix D, or other procedure approved by the department. The department may require periodic confirmatory measurements (e.g., grab samples) during routine operations to verify the low emissions. Methods to implement periodic confirmatory monitoring shall be approved by the EPA or the department.

(4) The department may allow a facility to use alternative monitoring procedures or methods if continuous monitoring is not a feasible or reasonable requirement.

(5) The following types of facilities shall determine radionuclide emissions in accordance with either a methodology referenced in subsections (1) through (4) of this section or the respective document referenced below:

(a) Nuclear power reactors licensed by the NRC: Effluent Technical Specifications contained in their Operating License;

- (b) Fuel fabrication plants licensed by the NRC: NRC's Regulatory Guide 4.16, dated December 1985;
- (c) Uranium mills that are processing material: NRC's Regulatory Guide 4.14, dated April 1980.

(6) Licensed facilities shall conduct and document a quality assurance program. Except for those types of facilities specified in subsection (5) of this section, the quality assurance program shall be compatible with applicable national standards such as ANSI/ASME NQA-1-1988, ANSI/ASME NQA-2-1986, QAMS-004, and QAMS-005.

(7) Those types of facilities specified in subsection (5) of this section shall conduct and document a quality assurance program compatible with either the applicable national standards referenced in subsection (6) of this section or the NRC's Regulatory Guide 4.15, dated February 1979.

(8) Facilities shall monitor nonpoint and fugitive emissions of radioactive material.

(9) The department may conduct an environmental surveillance program to ensure that radiation doses to the public from emission units are in compliance with applicable standards. The department may require the operator of any emission unit to conduct stack sampling, ambient air monitoring, or other testing as necessary to demonstrate compliance with the standards in WAC 246-247-040.

(10) The department may require the owner or operator of an emission unit to make provision, at existing emission unit sampling stations, for the department to take split or collocated samples of the emissions.

(11) The planning for any proposed new construction or significant modification of the emission unit must address accidental releases with a probability of occurrence during the expected life of the emission unit of greater than one percent.

(12) All facilities must be able to demonstrate that appropriate supervisors and workers are adequately trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency response procedures.

(13) All facilities must be able to demonstrate the reliability and accuracy of the radioactive air emissions monitoring data.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-080 (~~Monitoring and reporting.~~) **Inspections, reporting, and recordkeeping.** (~~(1) The department may conduct an environmental surveillance program to assure that radiation exposures to the public from airborne radionuclide emission sources are in compliance with applicable standards.~~

~~(2) As a part of the surveillance program, the department may require the operator of any facility under the jurisdiction of the department to conduct stack sampling, ambient air monitoring, or other testing as necessary and to report the results to the department. Such testing may include computer dose modeling and verification.~~

~~(3) The use of continuous monitoring equipment by the facility operator is encouraged but may not be feasible for some radionuclides. If the department determines that continuous monitoring is not a feasible or reasonable requirement, alternative monitoring and reporting procedures~~

~~will be established on an individual basis. These may take the form of stack tests conducted at a frequency sufficient to establish emission levels over time and to monitor deviations in these levels.~~

~~(4) The facility operator or owner shall submit a semiannual inventory of emissions from the source upon a form, and according to instructions, issued by the department.~~

~~(5) The semiannual inventory shall specify the quantities of each of the principal radionuclides released to unrestricted areas in airborne emissions during the previous six months. This data shall be reported in a manner that will permit the department to confirm the potential annual radiation doses to the public. Reports shall be due in writing by May 1 and November 1 of each year.~~

~~(6) To determine compliance with applicable standards, radionuclide emissions shall be determined and dose equivalent to members of the public shall be calculated using EPA approved sampling procedures, EPA codes AIRDOS EPA and RADRISK, or other procedures, including those based on environmental measurements, that the department has determined to be suitable. In most cases, compliance will be determined by calculating the dose to members of the public at the point of maximum annual air concentration in an unrestricted area.~~

~~(7) The following is a list of approved procedures: (to be provided later)~~

~~(8) In order to demonstrate compliance with this chapter, the department may require that a test be made of the emission source. The operator of the source may be required to provide a sampling platform and sampling ports for the department to perform an emission test. The department shall be allowed to obtain a sample from any emissions unit. The operator may observe the sampling and may obtain a sample at the same time.)~~ (1) The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data, and other records related to compliance with the requirements of this chapter. The department may require a demonstration of ALARACT at any time.

(2) All reporting and recordkeeping requirements of 40 CFR 61, Subparts H and I published in the Federal Register on December 15, 1989, are adopted by reference, as applicable as specified by the referenced subparts.

(3) The facility shall annually submit to the department the information requirements adopted in subsection (2) of this section, as applicable, along with the following additional information, as applicable:

- (a) The results of emission measurements for those emission units subject only to periodic confirmatory measurements;
- (b) Wind rose or joint frequency table;
- (c) Annual average ambient temperature;
- (d) Annual average emission unit gas temperature, if available;
- (e) Annual total rainfall;
- (f) Annual average emission unit flow rate and total volume of air released during the calendar year.

If this additional information is available in another annual report, the facility may instead provide a copy of that report along with the information requirements in this

subsection. Annual reports are due by June 30 for the previous calendar year's operations.

(4) Any report or application that contains proprietary or procurement-sensitive information shall be submitted to the department with those portions so designated. The department shall hold this information confidential, unless required to release the information pursuant to laws, regulations, or court order.

(5) The facility shall notify the department within twenty-four hours of any shutdown, or of any transient abnormal condition lasting more than four hours or other change in facility operations which, if allowed to persist, would result in emissions of radioactive material in excess of applicable standards or license requirements. If requested by the department, the facility shall submit a written report within ten days including known causes, corrective actions taken, and any preventive measures taken or planned to minimize or eliminate the chance of recurrence.

(6) The facility shall file a report of closure with the department whenever operations producing emissions of radioactive material are permanently ceased at any emission unit (except temporary emission units) regulated under this chapter. The closure report shall indicate whether, despite cessation of operations, there is still a potential for radioactive air emissions and a need for an active or passive ventilation system with emission control and/or monitoring devices. If decommissioning is planned, a NOC is required, as applicable, in accordance with WAC 246-247-060.

(7) The facility shall maintain a log for each emission unit that has received categorical approval under WAC 246-247-060(8). The log shall contain records of important operations parameters including the date, location, and duration of the release, measured or calculated radionuclide concentrations, the type of emissions (liquid, gaseous, solid), and the type of emission control and monitoring equipment.

(8) The facility shall maintain readily retrievable storage areas for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years.

(9) The facility shall ensure all emission units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restrictions or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility.

(10) The facility shall make available, in a timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know.

NEW SECTION

WAC 246-247-085 Compliance determination for existing emission units and facilities. (1) All procedures for determining compliance with the dose equivalent standards of 40 CFR 61, Subparts H and I published in the *Federal Register* on December 15, 1989, are adopted by reference, as applicable as specified by the referenced subparts.

(2) Facilities subject to 40 CFR 61 shall use computer codes or procedures approved by the EPA to determine the CEDE to the MEI; all other facilities shall use computer codes or procedures approved by the department.

(3) The determination of compliance with the dose equivalent standard of WAC 246-247-040 shall include all radioactive air emissions resulting from routine and nonroutine operations for the past calendar year.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-247-100 ((Regulatory)) Enforcement actions. ((The department may take any of the following regulatory actions to enforce this chapter.

(1) ~~Notice of violation.~~ Whenever the department has reason to believe that any provision of this chapter has been violated, it may cause written notice to be served on the alleged violator or violators. The notice shall specify the provision of this chapter alleged to be violated and the facts alleged to constitute a violation thereof, and may include an order that necessary corrective action be taken within a reasonable time.

(2) ~~Compliance orders.~~ The department may issue a compliance order in conjunction with a notice of violation. The order shall require the recipient of the notice of violation either to take necessary corrective action or to submit a plan for corrective action and a date when such action will be initiated.

(3) ~~Assurance of discontinuance.~~ The department may accept an assurance of discontinuance of any act or practice deemed in violation of this chapter. Any such assurance shall specify a time limit during which discontinuance is to be accomplished. Failure to perform the terms of any such assurance shall constitute prima facie proof of a violation of this chapter which make the alleged act or practice unlawful for the purpose of securing an injunction or other relief from the superior court.

(4) ~~Violations.~~ An injunction or other court order may be obtained prohibiting any violation of any provision of the act or any regulation or order issued thereunder. Any person who violates any provision of the act or any regulation or order issued thereunder may be guilty of a gross misdemeanor and upon conviction, may be punished by fine or imprisonment or both, as provided by law.

(5) ~~Impoundment.~~ Sources of radiation shall be subject to impoundment pursuant to WAC 402-12-140.)) (1) In accordance with RCW 70.94.422, the department may take any of the following actions to enforce compliance with the provisions of this chapter:

(a) Notice of violation and compliance order (RCW 70.94.332).

(b) Restraining order or temporary or permanent injunction (RCW 70.94.425; also RCW 70.98.140).

(c) Penalty: Fine and/or imprisonment (RCW 70.94.430).

(d) Civil penalty: Up to ten thousand dollars for each day of continued noncompliance (RCW 70.94.431 (1) through (7)).

(e) Assurance of discontinuance (RCW 70.94.435).

(2) The department, in accordance with RCW 70.98.050(4)(l), may issue subpoenas in order to compel attendance of witnesses and/or production of records or documents in connection with any adjudicative or other administrative proceeding.

(3) The department, in accordance with RCW 70.98.160, may impound sources of ionizing radiation.

(4) The secretary of the department, in accordance with RCW 43.70.190, is authorized to bring an action to prohibit a violation or a threatened violation of any department rules or regulation, or to bring any legal proceeding authorized by law to a county superior court.

(5) Any party, against which an enforcement action is brought by the department, has the right to submit an application for the adjudicative process in accordance with chapter 246-10 WAC and chapter 34.05 RCW.

NEW SECTION

WAC 246-247-110 Appendix A—Application information requirements. (1) Name and address of the facility, and location (latitude and longitude) of the emission unit(s).

(2) Name, title, address, and phone number of the responsible manager.

(3) Identify the type of proposed action for which this application is submitted:

(a) Construction of new emission unit(s);

(b) Modification of existing emission unit(s);

(c) Existing unit(s), unregistered.

(4) If this project is subject to the requirements of the State Environmental Policy Act (SEPA) contained in chapter 197-11 WAC, provide the name of the lead agency, lead agency contact person, and their phone number.

(5) Describe the chemical and physical processes upstream of the emission unit(s).

(6) Describe the existing and proposed (as applicable) abatement technology. Describe the basis for the use of the proposed system. Include expected efficiency of each control device, and the annual average volumetric flow rate(s) in meters³/sec for the emission unit(s).

(7) Provide conceptual drawings showing all applicable control technology components from the point of entry of radionuclides into the vapor space to release to the environment.

(8) Identify each radionuclide that could contribute greater than ten percent of the potential-to-emit CEDE to the MEI, or greater than 0.1 mrem/yr potential-to-emit CEDE to the MEI.

(9) Describe the effluent monitoring system for the proposed control system. Describe each piece of monitoring equipment and its monitoring capability, including detection limits, for each radionuclide that could contribute greater than ten percent of the potential-to-emit CEDE to the MEI, or greater than 0.1 mrem/yr potential-to-emit CEDE to the MEI, or greater than twenty-five percent of the CEDE to the MEI, after controls. Describe the method for monitoring or

calculating those radionuclide emissions. Describe the method with detail sufficient to demonstrate compliance with the applicable requirements.

(10) Indicate the annual possession quantity for each radionuclide.

(11) Indicate the physical form of each radionuclide in inventory: Solid, particulate solids, liquid, or gas.

(12) Indicate the release form of each radionuclide in inventory: Particulate solids, vapor, or gas. Give the chemical form and ICRP 30 solubility class, if known.

(13) Release rates.

(a) New emission unit(s): Give predicted release rates without any emissions control equipment (the potential-to-emit) and with the proposed control equipment using the efficiencies described in subsection (6) of this section.

(b) Modified emission unit(s): Give predicted release rates without any emissions control equipment (the potential-to-emit) and with the existing and proposed control equipment using the efficiencies described in subsection (6) of this section. Provide the latest year's emissions data.

(c) Existing, unregistered unit(s): Provide the latest year's emissions data.

In all cases, indicate whether the emission unit is operating in a batch or continuous mode.

(14) Identify the MEI by distance and direction from the emission unit(s). The MEI is determined by considering distance, windrose data, presence of vegetable gardens, and meat or milk producing animals at unrestricted areas surrounding the emission unit.

(15) Calculate the CEDE to the MEI using an approved procedure (see WAC 246-247-085). For each radionuclide identified in subsection (8) of this section, determine the CEDE to the MEI for existing and proposed emission controls, and without any emission controls (the potential-to-emit) using the release rates from subsection (13) of this section. Provide all input data used in the calculations.

(16) Provide cost factors for construction, operation, and maintenance of the proposed control technology components and system, if a BARCT or ALARACT demonstration is not submitted with the NOC.

(17) Provide an estimate of the lifetime for the facility process with the emission rates provided in this application.

NEW SECTION

WAC 246-247-120 Appendix B—BARCT compliance demonstration. Purpose. A BARCT demonstration is used to choose control technologies for the mitigation of emissions of radioactive material from new emission units or significant modifications to emission units. The bases for the BARCT demonstration requirements are the BARCT standard given in WAC 246-247-040, and the definition of BARCT given in WAC 246-247-030. This procedure incorporates certain implementing criteria that enable the department to evaluate a facility's compliance with the BARCT standard. It is the applicant's responsibility to demonstrate the effectiveness of their BARCT determination to the department. The facility should contact the department at the conceptual design phase for guidance on the BARCT demonstration requirements. The department may adjust this demonstration procedure on a case-by-case basis,

as needed, to ensure compliance with the substantive standard.

Scope. The BARCT demonstration includes the abatement technology and indication devices that demonstrate the effectiveness of the abatement technology from entry of radionuclides into the ventilation vapor space to release to the environment. The applicant shall evaluate all available control technologies that can reduce the level of radionuclide emissions.

Technology Standards. The BARCT demonstration and the emission unit design and construction must meet, as applicable, the technology standards shown below if the unit's potential-to-emit exceeds 0.1 mrem/yr CEDE to the MEI. If the potential-to-emit is below this value, the standards must be met only to the extent justified by a cost/benefit evaluation.

ASME/ANSI AG-1, Code on Nuclear Air and Gas Treatment (where there are conflicts in standards with the other listed references, this standard shall take precedence)

ASME/ANSI N509, Nuclear Power Plant Air-Cleaning Units and Components

ASME/ANSI N510, Testing of Nuclear Air Treatment Systems

ANSI/ASME NQA-1, Quality Assurance Program Requirements for Nuclear Facilities

40 CFR 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 4, 5, and 17

ANSI N13.1, Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities

The following standards and references are recommended as guidance only:

ANSI/ASME NQA-2, Quality Assurance Requirements for Nuclear Facilities

ANSI N42.18, Specification and Performance of On-Site Instrumentation for Continuously Monitoring Radioactivity in Effluents

ERDA 76-21, Nuclear Air Cleaning Handbook

ACGIH 1988, Industrial Ventilation, A Manual of Recommended Practice, 20th ed., American Conference of Governmental Industrial Hygienists

BARCT Demonstration Procedure.

Step 1. Define facility process variables. Describe the physical and chemical process. Include the potential radionuclide release rates (by isotope, in units of curies/year), process variables (such as flow rate, temperature, humidity, chemical composition), and other technical considerations. Base the radionuclide release rate on the potential-to-emit.

Radionuclides selected for consideration in the BARCT demonstration shall include those which contribute more than ten percent of the potential CEDE to the MEI or more than 0.1 mrem/yr, and any others which the department determines are necessary.

Step 2. Gather information on all available control technologies. Search for all available technologies that can reduce the emissions levels for the radionuclides selected in Step 1. Sources of information shall include previous BARCT demonstrations, regulatory authorities, industry or regulatory agency data bases, literature searches, information from technology vendors, research and development reports, and any other means necessary to identify all available technologies. "Available technology" includes any technolo-

gy that may be procured. Recently completed searches may be used with department approval.

Step 3. Determine technical feasibility. Determine technical feasibility by evaluating vendor specifications for available control technologies identified in Step 2 with respect to the process variables identified in Step 1. Evaluate combinations of abatement technology and control devices by component, and the system as a whole.

If a control technology has poor safety, reliability, or control effectiveness as achieved in practice under the proposed process conditions, or the technology is not applicable to the emission unit under consideration, the technology may be eliminated with supporting documentation of the technical infeasibility.

Step 4. List all feasible control technologies in order of effectiveness. Evaluate feasible control technologies for efficiency (effectiveness) in reducing the CEDE to the MEI. List them in order, with the most effective first. If the most effective feasible technology is proposed as BARCT, the demonstration is complete at this step.

Step 5. Evaluate the environmental, energy, and economic impacts. Evaluate each control technology in succession, beginning with the most effective. Present an objective evaluation considering both beneficial and adverse impacts. Quantify the data where possible. Impact cost and effectiveness evaluations are incremental and include only that portion of the facility which comes under the authority of this chapter. Evaluate at least the following impacts:

Environmental impact - Determine the incremental environmental impact, both beneficial and adverse. Evaluate the beneficial impact of reduction in the CEDE to the surrounding population or, at a minimum, to the MEI due to the abatement of radioactive air emissions. Consider the adverse impacts from waste generation (radioactive and nonradioactive, air and nonair), disposal and stabilization, construction of control equipment, and the health and safety to both radiation workers and the general public.

Energy impact - Determine the incremental energy impact. Include the impact of any resulting need for new services such as energy distribution systems.

Economic impact - Determine the incremental economic impact. Determine capital and expense costs including design, development, procurement, construction, operation, maintenance, taxes, waste disposal, and any other applicable financial components. Base all costs on the expected lifetime of the emission unit and reduce to an annualized cost for evaluation and comparison.

The adverse economic impact compared to the beneficial impact, including reduction in CEDE to the surrounding population or the MEI, is a measure of the cost versus benefit for the control technology evaluated.

The most effective technology may be eliminated from consideration if the applicant can demonstrate to the department's satisfaction that the technology has unacceptable impacts. State clearly the basis for this conclusion and proceed to the next most effective control technology. If the next most effective technology is proposed as BARCT, the demonstration is complete; otherwise, evaluate the control technology for impacts in accordance with this step.

If the control technology cannot be eliminated on the basis of its impacts, it is proposed as BARCT.

Reporting. Prepare a BARCT compliance demonstration report for department review. Provide sufficient information such that the department can validate essential results. If no control technology is feasible, and/or emissions are unacceptable, the department reserves the right to prohibit the construction and operation of the emission unit(s).

NEW SECTION

WAC 246-247-130 Appendix C—ALARACT compliance demonstration. Purpose. An ALARACT demonstration is used for inspection or audit purposes, and to demonstrate compliance with the substantive ALARACT technology standard as required by this chapter. An ALARACT demonstration is used to evaluate the adequacy of control technology on existing emission units and to choose control technologies for proposed nonsignificant modifications of emission units. The bases for the ALARACT demonstration requirements are the ALARACT standards given in WAC 246-247-040 and the definition of ALARACT given in WAC 246-247-030. It is the applicant's responsibility to demonstrate the effectiveness of their ALARACT determination to the department. The department may adjust this demonstration procedure on a case-by-case basis, as needed, to ensure compliance with the substantive standard.

Scope. The ALARACT demonstration includes the abatement technology and indication devices, from entry of radionuclides into the ventilation vapor space to release to the environment. The facility shall evaluate the existing control system in relation to applicable technology standards, and other control technologies that have been successfully operated for similar applications.

Technology Standards. The ALARACT demonstration and the emission unit design and construction must meet, as applicable, the technology standards shown below if the unit's potential-to-emit exceeds 0.1 mrem/yr CEDE to the MEI. If the potential-to-emit is below this value, the standards must be met only to the extent justified by a cost/benefit evaluation.

ASME/ANSI AG-1, Code on Nuclear Air and Gas Treatment (where there are conflicts in standards with the other listed references, this standard shall take precedence)

ASME/ANSI N509, Nuclear Power Plant Air-Cleaning Units and Components

ASME/ANSI N510, Testing of Nuclear Air Treatment Systems

ANSI/ASME NQA-1, Quality Assurance Program Requirements for Nuclear Facilities

40 CFR 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 4, 5, and 17

ANSI N13.1, Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities

The following standards and references are recommended as guidance only:

ANSI/ASME NQA-2, Quality Assurance Requirements for Nuclear Facilities

ANSI N42.18, Specification and Performance of On-Site Instrumentation for Continuously Monitoring Radioactivity in Effluents

ERDA 76-21, Nuclear Air Cleaning Handbook

ACGIH 1988, Industrial Ventilation, A Manual of Recommended Practice, 20th ed., American Conference of Governmental Industrial Hygienists

ALARA References. "Health Physics Manual of Good Practice for Reducing Radiation Exposure to Levels that are As Low As Reasonably Achievable (ALARA)", PNL-6577, June, 1988; prepared for the USDOE by Pacific Northwest Laboratories (Battelle Memorial Institute).

"A Guide to Reducing Radiation Exposure to As Low As Reasonably Achievable (ALARA)", DOE/EV/1830-T5, April, 1980, R.L. Kathren and J.M. Selby; prepared for the USDOE by Pacific Northwest Laboratories (Battelle Memorial Institute).

"A Practical Method of Performing Cost-Benefit Analysis of Occupational and Environmental Protective Measures", WHC-SA-0484-FP, March, 1989, G.F. Boothe and D.E. Webb; prepared for the USDOE by Westinghouse Hanford Company.

REPEALER

The following sections of the Washington Administrative Code are repealed:

- WAC 246-247-050 Registration.
- WAC 246-247-070 New and modified sources.
- WAC 246-247-090 Special reports.

AMENDATORY SECTION (Amending Order 208, filed 10/29/91, effective 11/29/91)

WAC 246-254-160 Fees for airborne emissions of radioactive materials. (1) The department shall ~~((include fees for emission units at))~~ waive the fee of one thousand dollars for each air emission permit application for those facilities ((licensed by the department, as part of the license)) who pay the fees specified in WAC 246-254-070, 246-254-080, 246-254-090, and 246-254-100; however, those facilities shall pay costs associated with direct staff time of the air emissions program in accordance with WAC 246-254-120 (1)(e).

(2) For emission units at all other facilities:

(a) Application. The applicant shall submit a fee of one thousand dollars for each air emission ~~((permit))~~ license to the department with each application.

(i) The department shall process only those applications accompanied by the fee prescribed in (a) of this subsection. The department shall return any application submitted without the prescribed fee to the applicant.

(ii) The applicant shall pay any additional actual costs involved with processing the application upon receipt of a bill from the department on a calendar quarter basis.

(iii) The department shall credit the initial application fee to the applicant's quarterly billings.

(b) Operations. The department shall charge each emission unit operator the actual expenses incurred by the department in determining compliance with the provisions of established regulations and conditions of the air emission ~~((permit))~~ license; and:

(i) Bill the operator each calendar quarter until the ~~((permit))~~ air emission license is terminated by the department.

(ii) Specify in the quarterly bill the staff, laboratory, and support service costs associated with the regulatory activities conducted by the department.

(c) Amendment. The department shall add and include the actual costs incurred by the department in reviewing and processing an amendment to an air emission ((~~permit~~) license) in the department's calendar quarter charge for regulatory activities.

WSR 94-01-147
PROPOSED RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
 (Public Assistance)

[Filed December 21, 1993, 10:22 a.m.]

Continuance of WSR 93-22-024.

Title of Rule: WAC 388-86-045 Home health services.

Purpose: Reduce the need of prior authorization for all home health services, add definitions of services, and add criteria for home health nursing services for high risk obstetrical clients.

Name of Proponent: Department of Social and Health Services, governmental.

Date of Intended Adoption: January 12, 1994.

December 21, 1993
 Dewey Brock, Chief
 Office of Vendor Services
 Administrative Services Division

WSR 94-01-149
PROPOSED RULES
PARKS AND RECREATION
COMMISSION

[Filed December 21, 1993, 10:49 a.m.]

Original Notice.

Title of Rule: Chapter 352-65 WAC, Boating safety program approval.

Purpose: Establish procedure and threshold criteria for the approval of local governments boating safety programs.

Statutory Authority for Adoption: RCW 88.12.385, 88.02.040, and 43.51.400.

Statute Being Implemented: Legislative intent 1993 C244 and RCW 88.02.040 and section 40, chapter 244, Laws of 1993.

Summary: Requires establishment of a dedicated account for state vessel fee deposit. Extends the assurance of local governments to enforce boating laws to satisfy state parks on audit findings and increases requirements for boating education, annual reports, and others.

Reasons Supporting Proposal: Chapter 244, Laws of 1993 increased the annual vessel registration fee and specified additional requirements and legislative intent for the use of the additional funding for boating safety.

Name of Agency Personnel Responsible for Drafting and Implementation: Jim French, 7150 Cleanwater Lane, Olympia, 98504, (206) 586-2165; and Enforcement: Jim French, Mark Kenny and Margaret Carty, 7150 Cleanwater Lane, Olympia, 98504, (206) 586-2165.

Name of Proponent: Washington State Parks and Recreation Commission, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: To specify all the requirements and procedures which allow state parks to review and approve city and county boating law enforcement programs. It will provide better accountability for use of state funds and enhanced program activities.

Proposal Changes the Following Existing Rules: Specifies legislative intent for the use of increased user fees; establishes dedicated account; establishes time frame and reporting of funds distributed from counties to cities; and increases several program requirements including boater education, inspections, and reporting.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Cavanaugh's Inn at the Park, West 303 North River Drive, Spokane, WA 99201, on January 28, 1994, at 9:00 a.m.

Submit Written Comments to: Jim French, P.O. Box 42650, Olympia, WA 98504-2650, by January 14, 1994.

Date of Intended Adoption: January 28, 1994.

December 21, 1993
 Sharon Howdeshell
 Office Manager

AMENDATORY SECTION (Amending WSR 90-13-008, filed 6/7/90, effective 7/7/90)

WAC 352-65-010 Declaration of purpose and authority. This chapter is adopted to implement RCW 88.02.040 wherein the Washington state parks and recreation commission has been directed to establish a process to review and approve local boating safety programs and to make funds available to local jurisdictions to offset out-of-county boater impacts. These rules (~~are designed to~~) pursue the legislature's intention to provide funding to counties and local governments for boater education about safe and responsible boating and to encourage boating safety education in the primary and secondary school system, to increase the level and visibility of the enforcement of boating laws, to purchase equipment including vessel noise measurement equipment, and to stimulate local efforts toward safe boating.

The chapter is promulgated and published pursuant to the authority granted to the parks and recreation commission in RCW (~~88.36.110~~) 88.12.385. These rules identify the necessary elements of a county boating safety program, specify the approval process, and establish a time frame for approval and distribution of available funds.

AMENDATORY SECTION (Amending WSR 90-13-008, filed 6/7/90, effective 7/7/90)

WAC 352-65-020 Program description and assurances. Each county or local jurisdiction requesting approval of its boating safety program must:

(1) Complete a description of its program on the forms provided by state parks identifying each required program element as specified in WAC 352-65-040;

(2) Provide assurance that the ~~((county))~~ boating safety program will be operated throughout its scheduled season in compliance with program requirements and that the funds allocated will be ~~((expended))~~ deposited into an account dedicated solely for supporting the jurisdiction's boating safety program activities as specified in WAC 352-65-040.

(3) Agree to submit to state parks a copy of any audit which discloses disallowed or questioned costs pertaining to funds provided through RCW 88.02.040 and this chapter and agree to resolve to the satisfaction of state parks findings pertaining to these funds.

(4) Enforce boating safety equipment, vessel operation, noise level, and registration laws as specified in Title 88 RCW, navigation and harbor improvements, or as specified in local rules or ordinances.

AMENDATORY SECTION (Amending WSR 90-13-008, filed 6/7/90, effective 7/7/90)

WAC 352-65-030 Equitable local distribution. The legislative authority of each county with an approved boating safety program will be responsible for equitably distributing the funds allocated by the state treasurer to local jurisdictions within the county which comply with the requirements of this chapter. The county shall make the equitable distribution to all eligible jurisdictions within seventy-five days of the allocation from the state treasurer and shall notify state parks of the amount distributed to each eligible jurisdiction. Local jurisdictions offering boating safety services and desiring to receive a distribution of funds must enter into a cooperative agreement with the county and receive and maintain state parks' approval for their boating safety program.

AMENDATORY SECTION (Amending WSR 90-13-008, filed 6/7/90, effective 7/7/90)

WAC 352-65-040 Minimum program requirements. A boating safety program must provide the necessary services and support to allow the recreational boater the opportunity to enjoy safe and clean waters. State parks, as the state's boating safety program coordinator, has established the following minimum requirements for approval of boating safety programs:

(1) Boating accident reporting and investigation.

(a) Each county or local jurisdiction must provide an assurance that all serious or fatal accidents will be thoroughly investigated to the maximum extent possible, and that copies of the investigative reports will be submitted to state parks in a timely manner as specified in RCW ~~((43.51.404))~~ 88.12.175.

(b) The approved county or local jurisdiction must support the state-wide boating accident reporting system by:

(i) Providing recreational boaters with copies of the state required boating accident report (BAR) form and informing recreational boaters of their responsibility to submit the completed BAR in a timely fashion as specified in RCW 88.12.155; and

(ii) Submitting to state parks a ~~((notice of))~~ completed boating accident(=) report (BAR) form which includes ~~((basic information as available regarding the time, location, severity, and operator(s) involved in a nonfatal, noninjurious~~

~~boating accident))~~ all available information about the accident or casualty as specified in chapter 352-70 WAC.

(2) Boater assistance. The county or local jurisdiction will have the ability to respond or coordinate response to boating emergencies which occur within its jurisdiction. Such emergencies may include swift water response, open water rescue, ice rescue, vessel fire, overdue boater search, or other boating related emergencies or distress calls.

(3) Training. The county or local jurisdiction will be responsible for acquiring the training for its assigned boating safety program personnel. The training will include basic boating safety officer training as provided by the United States Coast Guard, Washington state parks, or any county or local jurisdiction whose training program is approved by Washington state parks.

Such training must be acquired ~~((by January 1, 1992, or))~~ within one year of initiating a new boating safety program, ((whichever occurs later)) and within one year for each newly assigned boating safety officer.

(4) Rules and regulations. When the county or local jurisdiction ((must)) adopts ordinances ((consistent with)) governing recreational boating, the ordinances must be as restrictive, but may be more restrictive than Washington state boating laws and regulations.

(5) Enforcement. The county or local jurisdiction must provide:

(a) Boating safety officers with law enforcement commissions which empower such officers to enforce all boating laws and regulations;

(b) A patrol schedule which insures the waterways are patrolled during peak recreational periods;

(c) Response to on-water complaints, accidents, or emergencies;

(d) The necessary boating safety patrol equipment, including vessel(s) capable of serving the minimum requirements of this section. The patrol vessel must be properly marked and properly equipped as provided in chapter 88.02 RCW and chapter 352-60 WAC.

(6) Boating education. The county or local jurisdiction must have a boating education and information program satisfactory to state parks.

(a) A satisfactory boating education program may include any of the following: Presentations in primary and secondary schools, to boating organizations, to youth groups or a course of instruction to the boating public using lessons and materials from state parks education curriculum, or other state or nationally recognized curriculum approved by state parks.

(b) The county or local jurisdiction boating education and information program must:

(i) Have an officer trained by state parks as a boating education instructor;

(ii) Have a designated officer to coordinate the activities of state parks trained volunteer boating education instructors and to act as liaison to boating education organizations; and

(iii) Distribute boating safety information and materials, including materials provided by state parks, to boating and outdoor recreation organizations, the boating public, public agencies and the local media.

(7) Waterway marking. The county or local jurisdiction will use only those waterway markers which conform to the

Uniform State Waterway Marking System found in chapter 352-66 WAC.

(8) ~~((Vessel))~~ Boating safety inspections.

~~((a))~~ The county or local jurisdiction will ~~((conduct, during on the water enforcement contacts;))~~ complete written boating safety inspections ~~((for safety equipment as required by state and local laws and regulations))~~ during enforcement and informational contacts when considered safe and appropriate to document boater compliance with state boating laws. State parks will provide ~~((an))~~ boating safety inspection forms ~~((for use by the county or local jurisdiction))~~. A copy of the completed inspection will be submitted to state parks for statistical purposes.

~~((b) The county or local jurisdiction will conduct or coordinate courtesy inspections to monitor recreational boater compliance with watercraft registration requirements as prescribed in chapter 88.02 RCW and carriage requirements for safety equipment as required by state and local laws and regulations;))~~

(9) Reports. The county or local jurisdiction agrees to submit an annual report of activities performed through the boating safety program and to submit an annual report of all program expenditures. The county or local jurisdiction agrees to participate in state-wide boating surveys coordinated by state parks. Forms will be provided by state parks.

(10) Limitations on use of funds. These funds are intended to increase education and enforcement efforts and to stimulate greater local participation in boating safety and are not to supplant existing local funds used for boating safety ~~((funding))~~ programs. The county or local jurisdiction agrees to ~~((spend))~~ deposit boat registration fees allocated by the state treasurer ~~((only))~~ under RCW 88.02.040, into an account dedicated solely for boating safety purposes which include all activities or expenditures identified in this section.

AMENDATORY SECTION (Amending WSR 90-13-008, filed 6/7/90, effective 7/7/90)

WAC 352-65-060 Annual program ~~((approval))~~ assessment and ~~((revocation))~~ report. An annual assessment and report of activities of each approved county or local jurisdiction boating safety program will be made by state parks in order to insure the integrity of the program approval.

(1) The annual assessment will be based on ~~((minimum))~~ program requirements as ~~((listed))~~ specified in ~~((WAC 352-65-040))~~ this chapter. Counties and local jurisdictions meeting the requirements will maintain approval; those counties or local jurisdictions unable to demonstrate compliance with minimum approval requirements will have forty-five days to submit a plan satisfactory to state parks to remedy the deficiencies. If, after forty-five days, a county or local jurisdiction is unable to demonstrate its ability to meet minimum requirements, state parks may revoke the program approval after the county or local jurisdiction has had an opportunity for a hearing under chapter 34.05 RCW, Administrative Procedure Act.

(2) When boating safety program approval requirements change or when deemed appropriate to document changes to an approved program, state parks may require a revised program description be submitted to state parks as specified in WAC 352-65-020.

(3) State parks will publish an annual report of the program activities and the expenditures of state vessel registration fees for all approved boating safety programs.

**WSR 94-01-150
PROPOSED RULES
PARKS AND RECREATION
COMMISSION**

[Filed December 21, 1993, 10:51 a.m.]

Original Notice.

Title of Rule: WAC 352-32-25001 Recreational and conference center housing fees and meeting room fees charged.

Purpose: To establish fees for housing accommodations at Fort Worden State Park and Conference Center.

Statutory Authority for Adoption: RCW 43.51.060.

Statute Being Implemented: RCW 43.51.060.

Summary: The revised rules sets 1994 rates for public overnight accommodations at Fort Worden State Park and Conference Center, other than camping rates.

Reasons Supporting Proposal: Revised rates are necessary to maintain fees and charges for accommodations at proper levels and reimburse service contractors.

Name of Agency Personnel Responsible for Drafting: Wayne McLaughlin, 7150 Cleanwater Lane, Olympia, WA 98504, 753-2029; Implementation and Enforcement: Jim Farmer, 200 Battery Way, Pt. Townsend, WA 98368, 379-5052.

Name of Proponent: Washington State Parks and Recreation Commission, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The rule authorizes the charging of fees for public accommodations at Fort Worden State Park/Conference Center. The proposed changes in this rule will increase rates by approximately 3% for 1994, and maintain Fort Worden in its current market position as a low-cost, affordable facility for a broad range of public users.

Proposal Changes the Following Existing Rules: Modifies existing rule to adjust rates and prices for 1994.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Cavanaugh's Inn at the Park, West 303 North River Drive, Spokane, WA 99201, on January 28, 1994, at 9:00 a.m.

Submit Written Comments to: Wayne McLaughlin, P.O. Box 42650, Olympia, WA 98504-2650, by January 14, 1994.

Date of Intended Adoption: January 28, 1994.

December 21, 1993

Sharon Howdeshell

Office Manager

AMENDATORY SECTION (Amending WSR 93-01-029, filed 12/7/92, effective 1/7/93)

WAC 352-32-25001 Recreational and conference center housing fees and meeting room fees charged. (1)

The following fees shall be charged per day for recreational and conference center housing at Fort Worden State Park:

(a) Renovated housing

| | |
|--|---|
| Noncommissioned officers' row buildings—#331 and #332 (4 units, each with 2 bedrooms) | \$ ((72.40)) <u>75.00/unit</u> |
| Officers' row buildings—#5, #6, and #7 (6 units, each with 3.5 bedrooms) | \$ ((116.30)) <u>120.00/unit</u> |
| Officers' row buildings—#4 and #11 (4 units, each with 6 bedrooms) | \$ ((193.00)) <u>200.00/unit</u> |
| Charge for additional rollaway beds | \$ ((10.50)) <u>10.85 per bed</u> |

(b) Nonrenovated housing

| | |
|---|---|
| Officers' row building—#9, #10 and #16 (5 units, each with 3 bedrooms) | \$ ((89.45)) <u>93.00/unit</u> |
| Officers' row buildings—#15 (1 unit with 5 bedrooms) | \$ ((141.20)) <u>146.00/unit</u> |
| Charge for additional rollaway beds | \$ ((10.50)) <u>10.85 per bed</u> |
| Bliss vista ((and Castle)) building ((#)) —#235 and ((#229)) ((2)) <u>1</u> unit ((s)) , ((each)) with 1 bedroom | \$ ((59.45)) <u>62.00/unit</u> |
| <u>Castle building—#229</u> (1 unit, with 1 bedroom) | \$ <u>62.00/unit</u> |

A deposit equal to the cost of the first night's fee for each unit rented is required. A \$10.00 per unit cancellation fee is deducted from the deposit for any canceled reservations, to cover processing costs. If the cancellation is made less than three weeks prior to the arrival date, the entire deposit is forfeited, unless the unit is rerented.

Meal charges vary depending upon which meals and which level of service are selected by the visitor in the reservation agreement. All conference groups utilizing dormitory accommodations must contract for food services for a minimum of two meals per full day of occupancy. Food services are optional for nonconference groups using above-listed recreational housing.

(c) Dormitory housing (for group reservations only—meals not included)

| | |
|---|---|
| 1 - 2 days | \$ ((11.15)) <u>11.50/person/day</u> |
| 3 - 13 days | \$ ((9.15)) <u>9.22/person/day</u> |
| ((14 or more days \$ 7.45/person/day)) | |
| Dormitory linen and towel charge | \$ ((9.30)) <u>9.60</u> |
| Additional towel charges | \$ <u>.90</u> |
| Additional towel set | \$ ((1.95)) <u>2.00</u> |
| Emergency bedroll | \$ ((9.50)) <u>9.75</u> |

(d) Barracks-style housing (for group reservations only—meals not included)

| | |
|---|---|
| 1 - 2 days | \$ ((9.15)) <u>9.50/person/day</u> |
| 3 - 13 days | \$ ((7.35)) <u>7.42/person/day</u> |
| ((14 or more days \$ 5.50/person/day)) | |

All meals are served in the dining hall.
Washington state sales tax is added to all charges.

The Centrum organization has a preferential right to reserve certain facilities and services at Fort Worden State Park in conjunction with special group programs administered by Centrum as set forth in the Fort Worden State Park Master Facility Use Plan and by separate agreement with

Centrum. For further information contact Fort Worden State Park.

(2) Meeting rooms are available at varying charges, depending on size, character of facility, and length of stay. Prices range between \$ ~~((10.00))~~ 7.95 and \$ ~~((45.00))~~ 39.80 for those residing in Fort Worden recreational housing, with increased charges for nonusers of recreational housing facilities. Additional cleaning fee is charged if food or beverages are consumed in the room. Theatre is available for performances—\$ ~~((125.00))~~ 132.50 per day; for rehearsals—\$ ~~((40.00))~~ 42.50 per night. For larger performances or events, the balloon hangar pavilion is available at the following rental rates:

| | |
|---|---|
| Commercial events | \$800 per day (plus \$100 or ((40)) <u>5%</u> of the ((net profit)) <u>gross event receipts</u> , whichever is greater) |
| Nonprofit or charitable events (with admission fee) | \$500 per day |
| Nonprofit or charitable events (without admission fee) | \$250 per day |
| Rehearsals | \$ ((50)) <u>75</u> per day |

Pavilion rates apply to users except as otherwise provided under separate contracts pertaining to project funding. The kitchen shelter is available for the ~~((minimum))~~ fee of \$ ~~((25.00))~~ 26.50 per day without propane service, or \$38.50 per day with propane service, plus a refundable \$50.00 cleaning deposit for nonresidents. Kitchen shelter rate is \$16.50 per day when used with catered meal by food service concessionaire.

(3) Groups or organizations of thirty-two or more wishing to reserve the Fort Worden State Park housing or meeting room facilities may make application for reservations in advance consistent with the provisions of the Fort Worden Master Facility Use Plan by contacting the park. Confirmation of reservations is subject to the user group complying with the procedures specified in the Master Facility Use Plan and the reservation agreement, copies of which are available at the park.

(4) Consistent with the Fort Worden State Park Master Facility Use Plan, conference groups may also reserve campsites in advance as their sole overnight accommodation: *Provided*, That there will be a twenty-site minimum for any individual reservation. During the months of May through September only the upper campground may be reserved by such conference groups. During the months of October through April, all of the upper campground and twenty sites in the beach level campground may be reserved by conference groups.

WSR 94-01-151
PROPOSED RULES
DEPARTMENT OF AGRICULTURE
[Filed December 21, 1993, 12:57 p.m.]

Original Notice.

Title of Rule: Milk processing assessment and collections.

Purpose: To collect an assessment from milk processors to help pay costs for dairy inspection and sampling program

to ensure producers and plants meet minimum requirements for interstate shipment of milk under the pasteurized milk ordinance.

Statutory Authority for Adoption: RCW 15.36.105.

Statute Being Implemented: RCW 15.36.105.

Summary: Sets assessment level at .0535¢/100 wt.

Reasons Supporting Proposal: Monies obtained from assessments have helped raise rating scores for BTU's and plants by allowing us to meet minimum inspection and sampling intervals. Passing scores are required for interstate shipment of milk.

Name of Agency personnel Responsible for Drafting, Implementation and Enforcement: Verne Hedlund, 1111 Washington Street, Olympia, 902-1883.

Name of Proponent: Washington Department of Agriculture, governmental.

Rule is necessary because of federal law, United States Public Health Service Pasteurized Milk Ordinance (Publication No. 229). Copy available in Food Safety and Animal Health Division.

Explanation of Rule, its Purpose, and Anticipated Effects: Rule will raise dairy assessment for processed milk from .05¢/hundredweight to .0535¢/hundredweight. This assessment is used for dairy plant and producer inspection and sampling activities under the pasteurized milk ordinance. It helps to ensure compliance with the PMO which allows Washington producers and processors to sell their milk in interstate commerce. Compliance with the PMO requirements is necessary for interstate shipment of milk and dairy products.

Proposal Changes the Following Existing Rules: Changes amount of dairy assessment from .05¢/hundredweight on milk processed to .0535¢/hundredweight.

No small business economic impact statement required by chapter 19.85 RCW.

Hearing Location: Natural Resources Building, 2nd Floor, Room 259, Olympia, Washington 98504, on January 26, 1994, at 9:00 a.m.

Submit Written Comments to: Verne Hedlund, P.O. Box 42560, Olympia, WA 98504, by January 26, 1994.

Date of Intended Adoption: February 9, 1994.

December 21, 1993

Dr. Robert Mead

Acting Assistant Director

AMENDATORY SECTION (Amending WSR 92-20-056, filed 10/2/92, effective 11/2/92)

WAC 16-103-001 Assessments. (1) The assessment on all milk processed in this state shall be ~~((one-half))~~ fifty-three and one-half hundredths of one cent per hundredweight.

(2) All assessments shall be levied on the operator of the first milk plant receiving the milk for processing. This includes milk plants producing their own milk for processing and milk plants that receive milk from other sources.

(3) All assessments shall be in addition to those collected under chapter 15.44 RCW and/or Title 142 WAC.

WSR 94-01-153
PROPOSED RULES
BOARD OF
PILOTAGE COMMISSIONERS
[Filed December 21, 1993, 1:57 p.m.]

Original Notice.

Title of Rule: WAC 296-116-185 Tariffs, and pilotage rates for the Grays Harbor pilotage district.

Purpose: To consider amending the pilotage tariff rate.

Statutory Authority for Adoption: RCW 88.16.035.

Statute Being Implemented: RCW 88.16.035.

Summary: The rule establishes the tariff to be charged for pilotage services in the Grays Harbor pilotage district for the 1994 tariff year.

Reasons Supporting Proposal: RCW 88.16.035 requires that a tariff be set annually. The Grays Harbor tariff is presently established by an emergency rule that was necessitated by an unforeseen decline in vessel traffic. This notice evinces the intention of the agency to adopt a permanent rule.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Board of Pilotage Commissioners, 801 Alaskan Way, Seattle, 464-7818.

Name of Proponent: Board of Pilotage Commissioners, governmental.

Agency Comments or Recommendations, if any, as to Statutory Language, Implementation, Enforcement, and Fiscal Matters: The agency has noted the 1993 tariff, prior to emergency amendment, as the basis for the rule to be considered for adoption.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The proposed rule would establish the tariff for pilotage services in the Grays Harbor pilotage district.

Proposal Changes the Following Existing Rules: The rule as proposed would establish a 1994 tariff equal to the 1993 tariff prior to emergency amendment. The board may adopt a rule that varies from the proposed rule upon consideration of presentations of interested parties.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Eikum Conference Room, 801 Alaskan Way, Pier 52, Seattle, WA 98104, on January 27, 1994, at 9:00 a.m.

Submit Written Comments to: Armand Tiberio, 801 Alaskan Way, Pier 52, Seattle, WA 98104-1487, by January 18, 1994.

Date of Intended Adoption: January 27, 1994.

December 21, 1993

Susan P. Jensen

Assistant Attorney General

GRAYS HARBOR PILOTAGE DISTRICT TARIFF

[AMENDATORY SECTION (Amending WSR 93-13-055, filed 6/16/93)]

WAC 296-116-185 Tariffs and pilotage rates for the Grays Harbor pilotage district

CLASSIFICATION OF PILOTAGE SERVICE RATE

Piloting of vessels in the inland waters and tributaries of Grays Harbor:

Each vessel shall be charged according to its draft and tonnage. The draft charges shall be \$47.07 per meter (or \$14.32 per foot) and the tonnage charge shall be \$0.1501 per net registered ton. The minimum net registered tonnage charge is \$525.17. The charge for an extra vessel (in case of tow) is \$300.11.

Boarding fee:

Per each boarding/deboarding from a boat \$226.42

Harbor shifts:

For each shift from dock to dock, dock to anchorage, anchorage to dock, or anchorage to anchorage \$376.46
Delays per hour \$89.77
Cancellation charge (pilot only) \$150.05
Cancellation charge (pilot boat only) . . \$450.15

Travel allowance:

Boarding or deboarding a vessel off Grays Harbor entrance \$69.67

Pilot when traveling to an outlying port to join a vessel or returning through an outlying port from a vessel which has been piloted to sea shall be paid \$525.18 for each day or fraction thereof, and the travel expense incurred \$525.18

Bridge transit:

Charge for each bridge transited \$164.80

Miscellaneous:

The balance of amounts due for pilotage rates not paid within 30 days of invoice will be assessed at 1 1/2% per month late charge.

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

Reviser's note: The above section was filed as an amendatory section; however, there were no amendments made. Pursuant to the

requirements of RCW 34.08.040 it is published in the same form as filed by the agency.

WSR 94-01-155
PROPOSED RULES
DEPARTMENT OF REVENUE
[Filed December 21, 1993, 2:03 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-20-121 Sales of heat (or steam including production by cogeneration).

Purpose: To provide additional tax reporting information to persons selling heat or steam.

Statutory Authority for Adoption: RCW 82.32.300.

Statute Being Implemented: Title 82 RCW.

Summary: This rule provides tax reporting information to persons who produce and sell heat or steam.

Name of Agency Personnel Responsible for Drafting and Implementation: Les Jaster, 711 Capitol Way, #303, Olympia, (206) 586-7150; and Enforcement: Russ Brubaker, 711 Capitol Way, #303, Olympia, (206) 586-0257.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule explains the B&O tax and sales or use tax which applies to persons who produce heat or steam for sale.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following reason(s): The department is not aware of any new or additional administrative responsibilities placed on a business as a result of this rule.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 26, 1994, at 9:30 a.m.

Submit Written Comments to: Les Jaster, Rules Coordinator, Department of Revenue, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 26, 1994.

Date of Intended Adoption: February 2, 1994.

December 21, 1993
Russell W. Brubaker
Assistant Director

AMENDATORY SECTION (Amending Order ET 83-17, filed 3/15/83)

WAC 458-20-121 Sales of heat or steam - including production by cogeneration. ((Persons engaging in the business of operating a plant for the production, extraction, or storage of heat for distribution, for hire or sale, whether such heat is produced by a biomass system, cogeneration, geothermal sources, fossil fuels, or otherwise, are subject to the provisions of the business and occupation tax and are taxable under the service and other business activities classification.))

(1) Introduction. This section provides tax reporting information to persons who sell heat and/or steam. Because heat and steam are often the product of a cogeneration facility, this section also provides tax information for persons operating cogeneration facilities. Persons generating electrical power should also refer to WAC 458-20-179 and 17901.

(2) Sale of heat or steam - Business and Occupation (B&O) tax. Persons engaging in the business of operating a plant for the production, extraction, or storage of heat or steam for distribution, for hire or sale, are taxable under the service and other business activities classification. This includes heat or steam produced by a biomass system, cogeneration, geothermal sources, fossil fuels, or any other method.

(3) Sale or production of electricity - cogeneration. The production of steam, heat, or electricity is not a manufacturing activity within the definition of RCW 82.04.120. Persons who operate a plant or system for the generation, production or distribution of electrical energy for hire or sale are subject to the provisions of the public utility tax under the light and power tax classification. Persons who generate electrical energy should refer to WAC 458-20-179. A deduction may be taken for:

(a) Power generated in Washington and delivered out of state. (See RCW 82.16.050(6)).

(b) Amounts derived from the sale of electricity to persons who are in the business of selling electricity and are purchasing the electricity for resale. (See RCW 82.16.050(2)).

(4) Tax incentive programs - cogeneration. There were tax incentive programs available for cogeneration projects begun before January 1, 1990. See WAC 458-20-17901 for the requirements which applied. Sales and use tax deferrals may apply under certain conditions for power generation facilities, even though the production of power is not specifically subject to a manufacturing tax. These incentive programs are discussed in WAC 458-20-240, WAC 458-20-24001, and WAC 458-20-24002.

(5) Fuel. Persons who produce their own fuel to generate heat, steam, or electricity are subject to the manufacturing B&O tax on the value of the fuel. This includes the value of fuel which is created at the same site as a byproduct of another manufacturing process, such as production of hog fuel. The taxable value should be determined based on comparable sales, or on the basis of all costs in the absence of comparable sales. Refer to WAC 458-20-112.

The fuel does not become an ingredient or component of power, steam, or electricity. The purchase of fuel is subject to payment of retail sales tax to the supplier. In the event retail sales tax is not paid to the supplier, deferred sales or use tax must be paid. However, the law provides a specific exemption from the use tax for fuel which is used in the same manufacturing plant which produced the fuel. For example, if a lumber manufacturer produces wood waste which is used in the same plant to produce heat for drying lumber and also electricity which is sold to a public utility district, the wood waste is not subject to use tax even though the manufacturing tax will apply. (See RCW 82.12.0263.)

(6) Equipment and supplies. Persons who are in the business of producing heat, steam, or electricity are required to pay retail sales tax to suppliers of all equipment and

supplies. If the supplier fails to collect retail sales tax, deferred sales or use tax must be paid.

Reviser's note: The spelling errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-156
PROPOSED RULES
DEPARTMENT OF REVENUE
[Filed December 21, 1993, 2:05 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-20-165 Laundries, dry cleaners, laundry agents, self service laundries and dry cleaners.

Purpose: To implement 1993 law changed contained in chapter 25, Laws of 1993 sp. sess.

Statutory Authority for Adoption: RCW 82.32.300.

Statute Being Implemented: Chapters 82.04, 82.08, and 82.12 RCW.

Summary: Effective July 1, 1993, charges for use of coin operated laundry facilities for the exclusive use of guests or residents of apartments, hotels, motels, etc., became a retail sale.

Name of Agency Personnel Responsible for Drafting and Implementation: Les Jaster, 711 Capitol Way, #303, Olympia, (206) 586-7150; and Enforcement: Russ Brubaker, 711 Capitol Way, #303, Olympia, (206) 586-0257.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule provides tax reporting information to persons who operate laundries, dry cleaners, and self service laundries.

Proposal Changes the Following Existing Rules: This is an amendment to WAC 458-20-165. The rule explains that certain sales through coin operated laundries, which previously were not retail sales, became retail sales effective July 1, 1993. The rule clarifies that resale certificates may be given for soap and bleach if these items are specifically resold to customers. Resale certificates may not be given for these items if they are given to customers without charge or used by the business.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following reason(s): The changes to this rule are made to conform to mandates of the legislature and the department is given no discretionary latitude; and the department is not aware of any new or additional administrative responsibilities placed on a business as a result of this rule.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 26, 1994, at 9:30 a.m.

Submit Written Comments to: Les Jaster, Rules Coordinator, Department of Revenue, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 26, 1994.

Date of Intended Adoption: February 2, 1994.

December 21, 1993

Russell W. Brubaker
Assistant Director

AMENDATORY SECTION (Amending WSR 83-07-033, filed 3/15/83)

WAC 458-20-165 Laundries, dry cleaners, ((laundry agents)), self service laundries and dry cleaners. (1) Introduction. This section discusses the business and occupation (B&O) tax and retail sales tax liability of laundries, dry cleaners, pickup and delivery services, and self service laundries and dry cleaners. RCW 82.04.050 includes within the definition of "retail sale" repairing, cleaning, and altering tangible personal property for consumers, except sales of laundry services by nonprofit hospital associations to their members.

(2) Terms.

(a) A ((The term)) "laundry or dry cleaning business" ((applies to (1))) includes ((the business of)) operating a plant or establishment, or contracting with others, for laundering, cleaning, dyeing, pressing and incidentally repairing such articles as clothing, linens, bedding, towels, curtains, drapes, and rugs ((; etc.; (2) so-called "launderettes," "washettes," "cleanettes" or similar)) Laundry or dry cleaning businesses include self service businesses which provide coin and noncoin operated ((wherein)) laundry or dry cleaning facilities and pickup and delivery laundry services performed by persons operating in their own name and not as commissioned agent for another laundry business. ((are provided for hire; it includes the operation of both coin and noncoin operated equipment, and (3) one who, under his own name, operates a place of business or pickup and delivery system for the collection and distribution of such articles, holding himself out to the public as performing such services, even though such person owns no plant and contracts with another for a part or all of the services rendered.

This does not apply, however, to a person holding himself out as an agent for a particular laundry or dry cleaning plant.

The term "laundry agent" applies to any person who, under his own name, operates a place of business or pickup and delivery system for the collection and distribution of articles to be laundered, cleaned, dyed or pressed, holding himself out as agent for some particular establishment and acting as an independent contractor rather than as an employee).

(b) A ((The term)) "laundry or linen supply service" is ((means)) the business of providing ((contracting to provide)) customers with a supply of clean linen, uniforms, towels, etc., whether ownership of such property is in the person operating the laundry or linen supply service or in the customer. The term includes supply services which operate their own cleaning establishments as well as those which contract with other laundry or dry cleaning businesses. ((Such services may include the providing of cabinets and

other toilet equipment, paper towels, soap and similar consumable supplies.))

(3) Business and Occupation Tax.

(a) Retailing. Persons operating laundry or dry cleaning businesses, including self service or coin operated ((laundry or dry cleaning)) businesses, ((but not including coin operated laundry facilities when such facilities are situated in an apartment house, hotel, motel, rooming house or trailer camp for the exclusive use of the tenants,)) are taxable under the retailing classification upon the gross proceeds of sales ((which are subject to the retail sales tax as hereinafter provided)), without any deduction on account of commissions allowed or amounts paid to another for the performance of all or part of the laundry or dry cleaning service rendered. ((Persons operating self service or coin operated laundries or dry cleaning businesses are taxable under the retailing classification upon))

(i) T((t))he gross proceeds of sales includes charges for cleaning and for sales of starch, soap, blueing or any other article sold to customers.

(ii) Laundries in Washington which provide linen supply services are making retail sales in this state even though their customers may be located outside this state. Gross income from such services is subject to tax because the charge is for laundering which takes place in this state, rather than being a true rental of property (uniforms, linen, etc.) to nonresidents.

(b) Wholesaling. Tax is due under the wholesaling classification upon the gross proceeds of sales derived from laundry or dry cleaning services rendered for other laundry and dry cleaning ((establishments)) businesses.

(c) Service and other activities. ((Persons operating coin operated laundry facilities which are situated in an apartment house, hotel, motel, rooming house or trailer camp for the exclusive use of the tenants are taxable under service and other activities on the gross income from such facilities. Laundry agents are taxable under this classification upon the gross commissions received by them.)) Nonprofit associations composed exclusively of nonprofit hospitals are taxable under the service and other activities classification ((upon)) on gross income received for providing laundry services to ((such)) their members. Persons who collect and distribute laundry or dry cleaning as a commissioned agent for one or more laundry or dry cleaning businesses, and who act as an independent contractor rather than as an employee, are liable for service B&O tax on their gross commissions. See WAC 458-20-159 for the record keeping requirements for showing agency status.

(4) Retail Sales Tax.

(a) Laundry and dry cleaning businesses, ((t))including ((so-called "launderettes," "washettes," "cleanettes" and)) self service or coin operated laundries or dry cleaners((;)), ((laundry agents)) and ((persons operating)) laundry or linen supply services are required to collect the retail sales tax upon the total charge made to the customer for laundry and dry cleaning service or laundry supply service ((rendered by them)). RCW 82.04.050 was amended by chapter 25, laws of Washington 1993, 1st special session to include as a retail sale the income ((The tax is not applicable to gross receipts)) from coin operated laundry facilities ((when such facilities are)) situated in an apartment house, hotel, motel, rooming house or trailer camp for the exclusive use of the

tenants. This change became effective July 1, 1993. Previously such charges were taxed under the service and other business activities classification.

~~(Laundries, dry cleaning businesses and laundry agents who pay agency commissions or maintain commission drivers must account for the retail sales tax upon such operations as follows:~~

~~(1) Where agency commissions are allowed hotels, apartments, etc., on laundry or dry cleaning done for their guests, the retail sales tax must be collected by the laundry or dry cleaner upon the full retail charge to the final consumer.~~

~~(2) Commission drivers operating in the name of the laundry or cleaning establishment must collect the retail sales tax on the total charge made to the customer, remitting the same on each settlement to the plant, which in turn is responsible for the payment of the tax to the state.)~~

(b) Laundry and dry cleaning businesses which provide their services through commissioned agents should collect and remit the retail sales tax to the department.

(i) If the agent is a hotel or an apartment which bills guests or tenants for laundry or dry cleaning services, the hotel or apartment should collect the retail sales tax on the total charge for the laundry or dry cleaning and remit the payment to the laundry or dry cleaning business. The laundry or dry cleaning business is responsible for remitting the tax to the department.

(ii) If the agent is a commissioned driver, the laundry or dry cleaning business can bill the customer directly for the services or the driver can collect the payment from the customer and remit the payment to the laundry or dry cleaning business. In either case, the retail sales tax must be collected on the total charge made to the customer and the laundry or dry cleaning business is responsible for remitting the tax to the department.

(c) Sales by supply houses to laundries, dry cleaners and persons operating laundry or linen supply services of soaps, cleaning solvents and other articles or substances which are used in rendering a laundry, laundry supply or cleaning service are retail sales and are subject to the retail sales tax. Sales to such persons of dyes, fabric softeners, starches and similar articles or substances, ((the primary purpose of)) which ((is to)) become ingredients of the articles cleaned, are sales at wholesale and are not subject to the retail sales tax. Similarly, sales to persons operating laundry or linen supply services of linen, uniforms, towels, cabinets, hand soap and similar property rented or supplied to customers as a part of the service rendered are wholesale sales. Sales by supply houses to laundries, dry cleaners and operators of laundry or linen supply services of equipment and supplies such as machinery, hand tools, sewing notions, scissors, spotting brushes, stationery, etc., are retail sales and the retail sales tax must be collected thereon.

~~((Generally, sales by supply houses to persons operating self service or coin operated laundries, of soaps or other articles which are furnished by such persons to their customers, the charge for which is included within the charge for use of facilities, are wholesale sales, and supply houses need not collect the retail sales tax thereon upon receipt of a resale certificate from the customer. However, sales of such supplies to persons operating coin operated laundry facilities which are situated in an apartment house, hotel, motel,~~

~~rooming house or trailer camp for the exclusive use of the tenants are retail sales upon which the retail sales tax must be collected.)~~

(d) Sales by supply houses to self service or coin operated laundries of any items which the laundries give to their customers are retail sales. Sales of soap, bleach, fabric softener or other supplies to self service or coin operated laundries for resale to their customers are wholesale sales. The laundry or dry cleaning business should provide a resale certificate to the supply house as provided in WAC 458-20-102. A sale is for resale if the self-service business sells the supplies to customers separate from the charge for the use of the laundry appliances.

(e) Sales to all operators of laundry or dry cleaning establishments of equipment such as washing machines, ironers, furniture, etc., are retail sales subject to the sales tax.

(f) In most cases the retail sales tax must be stated separately from the selling price or collected separately from the buyer. (See RCW 82.08.050.) An exception is made for coin-operated sales. The seller may deduct the tax from the total amount received in coin-operated machines to arrive at the net amount which becomes the measure of the tax.

(g) In general, the place of sale for purposes of local sales tax is the place the laundry services are performed. See WAC 458-20-103 and WAC 458-20-145.

(i) If a laundry or dry cleaning business contracts with another laundry or dry cleaning business to do the cleaning, the place of sale is the location of the laundry or dry cleaning business used by the customer to drop of and pick up the laundry.

(ii) If a laundry or dry cleaning business uses a commissioned agent such as a hotel, an apartment, or a commissioned driver for pick-up and delivery of the articles to be cleaned, the place of sale is the location of the laundry or dry cleaning business which does the cleaning.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-157
PROPOSED RULES
DEPARTMENT OF REVENUE
 [Filed December 21, 1993, 2:08 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-20-166 Hotels, motels, boarding houses, rooming houses, resorts, summer camps, trailer camps, etc.

Purpose: To implement section 301, chapter 25, Laws of 1993 sp. sess.

Statutory Authority for Adoption: RCW 82.32.300.

Statute Being Implemented: Chapters 82.04, 82.08, and 82.12 RCW.

Summary: Effective July 1, 1993, charges for use of coin operated laundry facilities for the exclusive use of

guests or residents of hotels, motels, and apartments became subject to retail sales tax.

Name of Agency Personnel Responsible for Drafting and Implementation: Les Jaster, 711 Capitol Way, #303, Olympia, (206) 586-7150; and Enforcement: Russ Brubaker, 711 Capitol Way, #303, Olympia, (206) 586-0257.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule provides tax reporting information to persons operating hotels, motels, boarding houses, and similar businesses.

Proposal Changes the Following Existing Rules: This is an amendment to WAC 458-20-166. It explains that all laundry services provided through coin operated machines are retail sales after July 1, 1993. The federal government has changed its procedures for payment of lodging by credit card which is explained in this rule.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following reason(s): The changes to this rule are made to conform to mandates of the legislature and the department is given no discretionary latitude; and the department is not aware of any new or additional administrative responsibilities placed on a business solely as a result of this rule.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 26, 1994, at 9:30 a.m.

Submit Written Comments to: Les Jaster, Rules Coordinator, Department of Revenue, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 26, 1994.

Date of Intended Adoption: February 2, 1994.

December 21, 1993
Russell W. Brubaker
Assistant Director

AMENDATORY SECTION (Amending WSR 92-05-064, filed 2/18/92)

WAC 458-20-166 Hotels, motels, boarding houses, rooming houses, resorts, summer camps, trailer camps, etc. (1) **Introduction.** This section explains the taxation of ~~((the business activity of providing lodging and related services:))~~ persons operating establishments such as hotels, motels, and bed and breakfast facilities, which provide lodging and related services to transients for a charge. In addition to retail sales tax and B&O tax, this section explains the special hotel/motel tax, the convention and trade center tax, and the taxation of emergency housing furnished to the homeless.

~~((2))~~ **Definitions.** ~~The following definitions apply to this section.~~

~~(a) A hotel, motel, boarding house, rooming house, apartment hotel, resort lodge, bed and breakfast facility, recreational vehicle park, and bunkhouse, as used in this~~

~~section, includes all establishments which are held out to the public as such where sleeping accommodations may be obtained, whether with or without meals or facilities for preparing meals. It will be presumed that the establishments defined above are conferring a license to use real estate, as distinguished from a rental of real estate, where the occupant is a transient. Conversely, where the occupant who receives lodging is or has become a nontransient, it will be conclusively presumed that the occupancy is under a rental or lease of real property.)~~

(a) In addition to persons operating hotels or motels, this section applies to persons operating the following establishments:

(i) Trailer camps and recreational vehicle parks which charge for the rental of space to transients for locating or parking house trailers, campers, recreational vehicles, mobile homes, tents, etc.

(ii) Educational institutions which sell overnight lodging to persons other than students. See WAC 458-20-167.

(iii) Private lodging houses, dormitories, bunkhouses, etc., operated by or on behalf of business and industrial firms or schools solely for the accommodation of employees of such firms or students which are not held out to the public as a place where sleeping accommodations may be obtained. As will be discussed more fully below, in some circumstances these businesses may not be making retail sales of lodging.

(iv) Guest ranches or summer camps which, in addition to supplying meals and lodging, offer special recreation facilities and instruction in sports, boating, riding, outdoor living, etc. In some cases these businesses may not be making retail sales, as discussed below.

(b) This section does not apply to persons operating the following establishments:

~~(i) ((The above terms do not include establishments in the business of renting real estate, such as apartments, nor do these terms include))~~ Hospitals, sanitariums, nursing homes, rest homes, and similar institutions. Persons operating these establishments should refer to WAC 458-20-168.

~~((The terms generally do not include private lodging houses, dormitories, bunkhouses, etc., operated by or on behalf of business and industrial firms or schools solely for the accommodation of employees of such firms or students which are not held out to the public as a place where sleeping accommodations may be obtained. However, educational institutions who sell overnight lodging to persons other than students may be subject to the provisions of this section and should also refer to WAC 458-20-167.~~

~~(ii) The terms do not include guest ranches or summer camps which, in addition to supplying meals and lodging, offer special recreation facilities and instruction in sports, boating, riding, outdoor living, etc.)~~

(i) Establishments such as apartments or condominiums where the rental is for longer than one month. See WAC 458-20-118 for the distinction between a rental of real estate and the license to use real estate.

~~((b) A "boarding house", as used in this section, is an establishment selling meals on the average to five or more persons, exclusive of members of the immediate family. When meals are furnished to less than five persons, exclusive of members of the immediate family, the establishment~~

will not be considered as engaging in the business of operating a boarding house.

~~(e) A "trailer camp" or "recreational vehicle park" as used in this section is an establishment making a charge for the rental of space to transients for locating or parking house trailers, campers, recreational vehicles, mobile homes, tents, etc. which provide sleeping or living accommodations for the occupants. Additional charges for utility services are a part of the charge made for the rental.)~~

~~((d)) (2) **Transient defined.** The term "transient" as used in this section means(+) any guest, resident, or other occupant to whom lodging and other services are furnished under a license to use real property ((and who does not continuously occupy the premises for a period of one month. Any such occupant who remains in continuous occupancy for more than one month, shall be deemed a transient as to the first month of occupancy, unless such occupant has contracted in advance to remain one month. A person who has contracted in advance and does remain in continuous occupancy for one month, will be deemed a nontransient from the start of the occupancy)) for less than one month, or less than thirty continuous days if the rental period does not begin on the first day of the month. An occupant remaining in continuous occupancy for thirty days or more is considered a nontransient upon the thirtieth day. An occupant who contracts in advance and does remain in continuous occupancy for the initial thirty days will be considered a nontransient from the start of the occupancy.~~

~~(3) **Business and occupation tax (B&O).** ((The tax liability of hotels, motels, boarding houses, rooming houses, resorts, summer camps, trailer camps, etc., is as follows:)) Where lodging is sold to a nontransient, the transaction is a rental of real estate and exempt from B&O tax. (See RCW 82.04.390.) Sales of lodging and related services to transients are subject to B&O tax, including transactions which may have been identified or characterized as membership fees or dues. (See WAC 458-20-114.) The B&O tax applies as follows:~~

~~(a) **Retailing.** Amounts derived from the following charges ((made)) to transients are retail sales and subject to the retailing B&O tax: ((for the furnishing of lodging; charges for such services as the)) rental of rooms for lodging, rental of radio and television sets, coin operated laundries, ((and the)) rental of rooms, space and facilities not for lodging, such as ballrooms, display rooms, meeting rooms, etc., ((and including)) automobile parking or storage, ((+ also amounts derived from the)) and the sale or rental of tangible personal property at retail ((are taxable under this classification)). See "retail sales tax" below for a more detailed explanation of the charges included in the retailing classification.~~

~~(b) **Service and other business activities.** ((Included in this classification are commissions received)) commissions, amounts derived from accommodations not available to the public, and certain unsegregated charges((- and amounts received from certain coin-operated laundries)) are taxable under this classification.~~

~~(i) Hotels, motels, and similar businesses may receive commissions from various sources((- These commissions)) which are generally taxable under the service and other business activities classification. The following are examples of such commissions:~~

~~(A) Commissions received from acting as a laundry agent for guests when someone other than the hotel provides the laundry service (see WAC 458-20-165).~~

~~(B) Commissions received from telephone companies for long distance telephone calls where the hotel or motel is merely acting as an agent (WAC 458-20-159) and commissions received from coin-operated telephones (WAC 458-20-245). Refer to the retail sales tax subsection below for a further discussion of telephone charges.~~

~~(C) Commissions or license fees for permitting a satellite antenna to be installed on the premises or as a commission for permitting a broadcaster or cable operator to make sales to the guest of the hotel or motel.~~

~~(D) Commissions from the rental of videos for use by guests of the hotel or motel when the hotel or motel operator is clearly making such sales as an agent for a seller.~~

~~(E) Commissions received from the operation of amusement devices. (WAC 458-20-187.)~~

~~(ii) Taxable under this classification are amounts derived from the rental of sleeping accommodations by private lodging houses, and by dormitories, bunkhouses, etc., operated by or on behalf of business and industrial firms and which are not held out to the public as a place where sleeping accommodations may be obtained.~~

~~(iii) Summer camps, guest ranches and similar establishments making an unsegregated charge for meals, lodging, instruction and the use of recreational facilities must report the gross income from such charges under the service and other business activities classification.~~

~~(iv) ((This classification also applies to gross income from charges for the use of coin-operated laundry facilities when such facilities are situated in an apartment house, hotel, motel, rooming house or trailer camp for the exclusive use of the tenants. (See WAC 458-20-165 for information regarding the tax liability of laundry services generally.))~~

~~((+)) Deposits retained by the business as a penalty charged to a customer for failure to timely cancel a reservation is taxable under the service and other business activities classification.~~

~~((e) Charges for lodging and related services described above are subject to tax even though they may be identified or characterized as membership fees or dues. (See WAC 458-20-114.)~~

~~(d) Where lodging is furnished to a nontransient, the transaction is a rental of real estate which is exempt of B&O tax (RCW 82.04.390.)~~

~~(4) **Retail sales tax.** ((All sales and rentals of tangible personal property by the persons defined in this section are subject to the retail sales tax.~~

~~(a) The charge made for the furnishing of lodging and other services to transients is subject to the retail sales tax. Included is the charge made by a trailer camp for the furnishing of space and other facilities.~~

~~Charges for automobile parking and storage are also subject to the retail sales tax. A business providing transient lodging must complete the "transient rental income" information section of the combined excise tax return. The four digit location code must be listed along with the income received from transient lodging subject to retail sales tax for each facility located within a participating city or county.~~

~~The retail sales tax does not apply to charges for the use of coin-operated laundry facilities when such facilities are~~

situated in an apartment house, hotel, motel, rooming house, or trailer camp for the exclusive use of the tenants.

(b) The retail sales tax applies to all retail sales which includes, but is not limited to, the following sales:

(i) Food and beverages (including room service) and in the case of meals sold under a "two meals for the price of one" promotion, the taxable selling price is the actual amount received as payment for the meals;

(ii) Laundry services if provided by the hotel/motel in the hotel's name;

(iii) Banquet room services;

(iv) Equipment rentals;

(v) Mandatory gratuities;

(vi) Employee meals (WAC 458-20-119);

(vii) Telephone charges (except those specified in this rule and WAC 458-20-245);

(viii) Movie rentals;

(ix) Hotel owned vending machines dispensing beverages or other tangible personal property (WAC 458-20-187); and

(x) Dancing cover charges.

(c) A charge for providing extended television reception to guests of a hotel or motel is additional consideration from the sale of lodging and subject to retail sales tax.

(d) Telephone charges to a guest for local telephone calls are taxable under the retailing B&O and retail sales tax classifications. These charges are considered part of the lodging services provided to the guest. See service and other activities business and occupation tax above for transactions involving coin-operated telephones located in hotels/motels and commissions paid by telephone companies to hotels/motels for long distance calls.

(e) If the hotel/motel is acting as an agent for a telephone service provider who provides long distance telephone service to the guest, the actual telephone charges are not taxable income to the hotel/motel. These amounts are advances and reimbursements (see WAC 458-20-111 and 458-20-159). Any commission received by the hotel/motel from the telephone service provider is taxable under the service and other business activities classification. Any additional handling or other charge which the hotel/motel may add to the actual long distance telephone charge is taxable under the retailing and retail sales tax classifications.

(f) If the hotel/motel leases telephone lines and then provides telephone services for a charge to its guests, these charges are taxable under the retailing and retail sales tax classifications. In this case the hotel/motel is in the telephone business. (See WAC 458-20-245.) The hotel/motel may give a resale certificate to the provider of the leased lines and is not subject to the payment of retail sales tax to the provider of the leased lines.

(g) An occupant does not become entitled to a refund of retail sales tax paid for lodging as a transient by reason of having remained one month and having thereby qualified as a nontransient.

(h) Except for guest ranches and summer camps, when a lump sum is charged for lodging to nontransients and for meals furnished, the retail sales tax must be collected upon the fair selling price of such meals. Unless accounts are kept showing the fair selling price, the tax will be computed upon double the cost of the meals served. The cost includes the price paid for food and drinks served, the cost of preparing

and serving meals, and all other costs incidental thereto, including an appropriate portion of overhead expenses.

(i) All purchases of tangible personal property by a lodging provider, except property purchased for resale are subject to the retail sales tax. This includes as subject to retail sales tax all purchases of tangible personal property for use in providing lodging and related services, such as beds and other furnishings. The charge for lodging and related services is for services rendered and not for the resale of any tangible property. Included are items such as soap, towels, linens, laundry, laundry supply services and furnishings. See WAC 458-20-244 for sales to persons operating guest ranches and summer camps of food supplies for use in the preparation of meals served to guests when such persons make an unsegregated charge for meals, lodging, and services and report such charges under the classification service and other activities as explained above. Persons providing lodging and other services generally must collect retail sales tax on their charges for lodging and other services as discussed below. They must pay retail sales or use tax on all of the items they purchase for use in providing their services.

(a) Lodging. All charges for lodging and related services to transients are retail sales. Included are charges for vehicle parking and storage and for space and other facilities, including charges for utility services, in a trailer camp.

(i) An occupant who does not contract in advance to stay at least thirty days does not become entitled to a refund of retail sales tax where the rental period extended beyond thirty days. For example, a tenant rents the same motel room on a weekly basis. The tenant is considered a transient for the first twenty-nine days of occupancy and must pay retail sales tax on the rental charges. The rental charges become exempt of retail sales tax beginning on the thirtieth day. The tenant is not entitled to a refund of retail sales taxes paid on the rental charges for the first twenty-nine days.

(ii) A business providing transient lodging must complete the "transient rental income" information section of the combined excise tax return. The four digit location code must be listed along with the income received from transient lodging subject to retail sales tax for each facility located within a participating city or county.

(b) Meals and entertainment. All charges for food, beverages, and entertainment are retail sales.

(i) Charges for related services such as room service, banquet room services, and service charges and gratuities which are agreed to in advance by customers or added to their bills by the service provider are also retail sales.

(ii) In the case of meals sold under a "two meals for the price of one" promotion, the taxable selling price is the actual amount received as payment for the meals.

(iii) Meals sold to employees are also subject to retail sales tax. See WAC 458-20-119 for retail sales tax applicability on meals furnished to employees.

(iv) Sale of food and other items sold through vending machines are retail sales. See WAC 458-20-187 for reporting income from vending machine sales and WAC 458-20-244 for the distinction between taxable and nontaxable sales of food products.

(v) Except for guest ranches and summer camps, when a lump sum is charged for lodging to nontransients and for meals furnished, the retail sales tax must be collected upon the fair selling price of such meals. Unless accounts are kept showing the fair selling price, the tax will be computed upon double the cost of the meals served. The cost includes the price paid for food and drinks served, the cost of preparing and serving meals, and all other costs incidental thereto, including an appropriate portion of overhead expenses.

(vi) Cover charges for dancing and entertainment are retail sales.

(vii) Charges for providing extended television reception to guests are retail sales.

(c) Laundry services. Charges for laundry services provided by a hotel/motel in the hotel's name are retail sales. RCW 82.04.050, which defines retail sales, was amended by chapter 25, laws of Washington 1993, 1st special session to include charges for the use of coin-operated laundry facilities located in apartment houses, hotels, motels, rooming houses, and trailer camps for the exclusive use of the tenants. This change became effective July 1, 1993. Prior to that date income from charges to tenants for coin-operated laundry facilities was subject to service B&O tax.

(d) Telephone charges. Telephone charges to guests, except those subject to service B&O tax as discussed above and in WAC 458-20-245, are retail sales. "Message service" charges are also retail sales.

(i) If the hotel/motel is acting as an agent for a telephone service provider who provides long distance telephone service to the guest, the actual telephone charges are not taxable income to the hotel/motel. These amounts are advances and reimbursements (see WAC 458-20-111 and 458-20-159). Any additional handling or other charge which the hotel/motel may add to the actual long distance telephone charge is a retail sale.

(e) Telephone lines. If the hotel/motel leases telephone lines and then provides telephone services for a charge to its guests, these charges are taxable as retail sales. In this case the hotel/motel is in the telephone business. (See WAC 458-20-245.) The hotel/motel may give a resale certificate to the provider of the leased lines and is not subject to the payment of retail sales tax to the provider of the leased lines.

(f) Rentals. Rentals of tangible personal property such as movies and sports equipment are retail sales.

(g) Purchases of tangible personal property for use in providing lodging and related services. All purchases of tangible personal property for use in providing lodging and related services are retail sales. The charge for lodging and related services is for services rendered and not for the resale of any tangible property.

(i) Included are such items as beds and other furnishings, restaurant equipment, soap, towels, linens, and laundry supply services. Purchases, such as small toiletry items, are included even though they may be provided for guests to take home if not used.

(ii) The retail sales tax does not apply to sales of food products to persons operating guest ranches and summer camps for use in preparing meals served to guests. Sales of prepared meals or other items which require a food handler's permit to persons operating guest ranches and summer camps

are subject to retail sales tax. See WAC 458-20-244 for sales of food products.

~~((j))~~ (h) Sales to the ~~((United))~~ United States government are not subject to retail sales tax. ~~((However, it may be difficult for hotels and motels to determine if the sale is actually to the federal government or is only a sale to an employee of the federal government.))~~ Sales to employees of the federal government are fully taxable notwithstanding that the employee ultimately will be reimbursed for the cost of lodging. The department of revenue has identified ~~((four))~~ the following methods of billing or payment which are presumed to be sales directly to the federal government ~~((They are:))~~:

(i) The lodging is paid by government voucher or government check payable directly to the hotel/motel.

(ii) Charges made through the use of a VISA I.M.P.A.C. card (International merchant purchase authorization card). The VISA I.M.P.A.C. cards include the embossed legend "U.S. Government Tax Exempt." The account number on each card begins with the prefix "4716."

~~((i))~~ (iii) For periods prior to November 30, 1993, charges made through Diner's Club Corporate Charge Card (the card contains the statement "for official use only"). There ~~((are))~~ were two Diner's Club Corporate Charge Cards ~~((now))~~ available to federal employees. Only one ~~((is))~~ was sales tax exempt. The card providing the exemption ~~((is))~~ was embossed with the name of the employee followed by the statement "for official use only." This card ~~((is))~~ was used by federal agencies to pay for group lodging. The Diner's Club card program for federal employees ended November 29, 1993.

~~((iii))~~ The lodging is paid by government voucher or government check payable directly to the hotel/motel.)

(iv) Beginning November 30, 1993, charges made through the use of certain American Express charge cards issued for the use of federal government travelers. Only those cards directly charging a government travel account (central bill account) qualify for the exemption. These cards begin with an account number prefix of "3783-9."

(v) A cash purchase made on behalf of the federal government by a federal employee who gives the seller a federal standard form SF 1165. A cash purchase by a federal employee made on behalf of the federal government qualifies for a sales tax exemption provided that the federal employee presents a federal standard form SF 1165 to document the fact that the purchase is made on behalf of the federal agency out of petty cash funds. The vendor (hotel/motel) is required to sign form SF 1165 to signify receipt of cash for the purchase. The vendor must retain a photocopy of SF 1165, describing the item purchased, to document the sales tax exemption.

(5) Special hotel/motel tax. Beginning in October 1987, some locations in the state have been authorized to charge a special hotel/motel tax. (See chapters 67.28 and 36.100 RCW.) If a business is in one of these locations, an additional tax is charged and reported under the special hotel/motel portion of the tax return. The four digit location code, the amount received for the lodging, and the tax rate must be completed for each location in which the lodging is provided. The tax applies without regard to the number of lodging units except that the tax of chapter 36.100 RCW

applies only if there are forty or more lodging units. The tax only applies to the charge for the rooms to be used for lodging by transients. Additional charges for telephone services, laundry, or other incidental charges are not subject to the special hotel/motel tax. Neither is the charge for use of meeting rooms, banquet rooms, or other special use rooms subject to this tax. However, the tax does apply to charges for use of camping and recreational vehicle sites.

(6) **Convention and trade center tax.** Businesses selling lodging to transients, having sixty or more units located in King County, must charge their customers the convention and trade center tax and report the tax under the "convention and trade center" portion of the tax return. See RCW 67.40.090.

(a) A business having more than sixty units which are rented to transients and nontransients will be subject to the convention and trade center tax only if the business has at least sixty rooms which are available or being used for transient lodging. For example, a business with one hundred forty total rooms of which ninety-five are rented to nontransients is not subject to the convention and trade center tax.

(b) The tax only applies to the charge for the rooms to be used for lodging by transients. Additional charges for telephone services, laundry, or other incidental charges are not subject to the convention and trade center tax. Neither is the charge for use of meeting rooms, banquet rooms, or other special use rooms subject to the convention and trade center tax.

(c) The four digit location code, amount received for the lodging, and the tax rate must be completed for each location in which the lodging is provided. However, the tax does apply to charges for camping or recreational vehicle sites. Each camp site is considered a single unit.

(7) **Furnishing emergency lodging to homeless.** ~~((Effective July 1, 1988, there is an exemption from the retail sales tax, convention and trade center tax, and the special hotel/motel tax on the))~~ The charge made for the furnishing of emergency lodging to homeless persons purchased via a shelter voucher program administered by cities, towns, and counties or private organizations that provide emergency food and shelter services is exempt from the retail sales tax, the convention and trade center tax, and the special hotel-motel tax. This exemption became effective July 1, 1988. This form of payment does not influence the required minimum of transient rooms available for use as transient lodging under the "convention and trade center tax" or under the "special hotel/motel tax."

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

**WSR 94-01-158
PROPOSED RULES
DEPARTMENT OF REVENUE**
[Filed December 21, 1993, 2:10 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-20-168 Hospitals, medical care facilities, and adult family homes.

Purpose: To implement 1993 law changes which removed the exemption for nonprofit hospitals and established a new tax rate.

Statutory Authority for Adoption: RCW 82.32.300.

Statute Being Implemented: Chapters 82.04, 82.08, and 82.12 RCW.

Summary: This rule provides tax reporting information to persons operating hospitals and other medical care facilities.

Name of Agency Personnel Responsible for Drafting and Implementation: Les Jaster, 711 Capitol Way, #303, Olympia, (206) 586-7150; and **Enforcement:** Russ Brubaker, 711 Capitol Way, #303, Olympia, (206) 586-0257.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule provides tax reporting information to persons operating hospitals, nursing homes, and similar businesses.

Proposal Changes the Following Existing Rules: This is an amendment to WAC 458-20-168. It explains law changes made in 1993 which became effective July 1, 1993. These changes included removal of a B&O exemption for nonprofit hospitals and established a separate tax classification. The rule clarifies that charges to patients for drugs and supplies are part of the services performed for patients when administered by the provider.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact state is not required for the following reason(s): [No information supplied by agency.]

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 26, 1994, at 9:30 a.m.

Submit Written Comments to: Les Jaster, Rules Coordinator, Department of Revenue, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 26, 1994.

Date of Intended Adoption: February 2, 1994.

December 21, 1993
Russell W. Brubaker
Assistant Director

AMENDATORY SECTION (Amending Order 87-9, filed 12/15/87)

WAC 458-20-168 Hospitals, medical care facilities, and adult family homes. (1) Introduction. This section provides tax reporting information to persons operating hospitals, medical care facilities, and adult family homes. It includes tax reporting changes resulting from the passage of chapter 25, laws of Washington 1993, 1st Special Session which affected nonprofit hospitals and hospitals operated by political subdivisions of the state.

~~((+))~~ **(2) Definitions.**

(a) The term "hospital" means only institutions defined as hospitals in chapter 70.41 RCW. The term includes privately owned and operated hospitals, hospitals operated as nonprofit corporations, hospitals operated by political subdivisions of the state, and hospitals operated by the state but not owned by the state.

(b) The term "nursing home" means only institutions defined as nursing homes in chapter 18.51 RCW.

(c) The term "adult family home" means private homes licensed by the department of social and health services as adult family homes (see WAC 388-76-030(2)), and those which are specifically exempt from licensing under the rules of the department of social and health services. (See WAC 388-76-140.)

~~((2))~~ **(3) Business and occupation (B&O) tax.** The sale of tangible personal property which is not part of the medical service being provided to a patient is taxable under the retailing B&O tax classification. There are two B&O tax classifications which can apply to persons providing medical services through the operation of a hospital, with the tax classification dependent on the organizational structure of the hospital. The B&O tax classifications are:

(a) Public or nonprofit hospitals. This B&O tax classification applies to gross income derived from personal and professional services of hospitals that are operated as nonprofit corporations, operated by political subdivisions of the state, or operated but not owned by the state. These hospitals became taxable under this B&O tax classification on July 1, 1993. These hospitals were required to report under the service B&O tax classification prior to July 1, 1993, but were entitled to a deduction for services rendered to patients.

(b) Service. The gross income derived from personal and professional services of hospitals (other than hospitals operated as nonprofit corporations or by political subdivisions of the state), nursing homes, convalescent homes, clinics, rest homes, health resorts, and similar health care institutions is subject to business and occupation tax under the service and other activities classification.

(c) Retailing. The retailing business and occupation tax applies to sales by such persons of tangible personal property sold and billed separately from services rendered. However, this does not include charges to patients for tangible personal property which is used in providing medical services to a patient, even if separately billed. Tangible personal property which is used in providing medical services is not considered to have been sold separately from the medical services simply because those items are separately invoiced. These charges, even if separately itemized, are for providing medical services and are taxable under either the "public or nonprofit hospital" classification or the "service and other business activities" classification, depending on the type of organization making the sale. However, making copies of medical records is considered to be a separate activity from that of providing medical services and any income from this activity is subject to the retailing tax and the retail sales tax.

~~((3))~~ **(4) Exemptions.** The following exemptions apply:

(a) Adult family homes. The gross income derived from personal and professional services of adult family homes which are licensed as such, or which are specifically exempt from licensing under the rules of the department of

social and health services, is exempt from the business and occupation tax effective June 9, 1987.

(b) State owned hospitals. The gross income from a hospital owned by the state of Washington is not subject to B&O tax. (Refer to WAC 458-20-189). This exemption does not include hospital districts or hospitals which are operated by or for political subdivisions of the state, such as a county government.

(c) Kidney dialysis facilities, certain nursing homes, certain homes for unwed mothers. Nonprofit organizations operating kidney dialysis facilities, homes for unwed mothers where the operating organization is also a religious or charitable organization, and nonprofit nursing homes are exempt from B&O tax on the services they provide to patients or from the sales of prescription drugs. (See WAC 458-20-18801.) However, the exemption applies only if no part of the net earnings received by such an institution inures, directly or indirectly, to any person other than the institution entitled to deduction hereunder.

(d) Contributions, donations and endowment funds. Amounts received as contributions, donations and endowment funds may be excluded from gross income, provided that no specific service is performed as a condition for receiving the funds. Amounts received as grants are taxable if specific services are performed as a condition for receiving the grant. (See WAC 458-20-114.)

(5) Adjustments to revenues. Many hospitals will perform charity care where medical care is given without charge or some portion of a charge will be cancelled. In other cases, medical care is billed to patients at "standard" rates, but later adjusted to reduce the charges to the rates established by contract with Medicare, Medicaid, or with private insurers. In these situations the hospital must initially include the total charges as billed to the patient as gross income. An adjustment may be taken at the time of filing future tax returns after the hospital has adjusted its records to reflect the actual amounts collected. In no event may the hospital reduce its current revenue by amounts which were not previously included in the taxable base. If the tax rate changes from the time the B&O tax was first paid on the gross charges and the time of the adjustment, the hospital must file amended tax returns to report the B&O tax on the transaction as finally completed at the rate in effect at the time the service was performed.

~~((4))~~ **Deductions:**

~~(a) Hospitals operated by the United States or its instrumentalities or the state of Washington or its political subdivisions may deduct amounts derived as compensation for medical services to patients and sales of prescription drugs and medical supplies furnished as an integral part of such services. (See RCW 82.04.4288.)~~

~~(b) Other hospitals operated as nonprofit corporations as well as nursing homes and homes for unwed mothers operated as religious or charitable organizations may also deduct the amounts described in subsection (a) above (see RCW 82.04.4289), provided that:~~

~~(i) No part of the net earnings received by such an institution inures, directly or indirectly, to any person other than the institution entitled to deduction hereunder; and~~

~~(ii) No deduction will be allowed under (a) of this subsection, unless written evidence is submitted to the department of revenue showing that the hospital building is~~

~~entitled to exemption from taxation under the property tax laws of this state.~~

~~(e) In computing tax liability there may be deducted from gross income so much thereof as was derived from bona fide contributions, donations and endowment funds. (See WAC 458-20-114.))~~

~~((5))~~ (6) **Retail sales tax.** Retail sales which are subject to retailing business tax, as provided earlier, are also subject to retail sales tax. These businesses are required to pay retail sales tax on purchases of medical supplies, durable equipment, and consumables. (For tax liability of hospitals on sales of meals, see WAC 458-20-119 and 458-20-244.)

~~((6) Exemptions-))~~ (7) **Retail sales and use tax exemptions.** The following exemptions from the retail sales and use tax apply:

(a) Effective on May 6, 1993, all items which are reasonably necessary for the operation of free hospitals may be purchased without payment of retail sales or use tax. This includes all supplies and equipment. It also includes any items which are used in providing health care. "Free hospitals" means a hospital that does not charge patients for health care provided by the hospital. (Refer to Chapter 205, laws of Washington 1993.)

(b) Sales of drugs, medicines, prescription lenses, orthotic devices, medical oxygen, or other substances, prescribed by medical practitioners are exempt of retail sales tax where the written prescription bearing the signature of the issuing medical practitioner and the name of the patient for whom prescribed is retained~~((, and such sales are separately accounted for))~~. Sales of prosthetic devices, hearing aids as defined in RCW 18.35.010(3), and ostomic items whether or not prescribed are also exempt of sales tax. See WAC 458-20-18801.

~~((7) Sales of medical supplies, durable equipment, and consumables, but excluding prosthetic devices and ostomic items, to hospitals and nursing homes for their own use in providing personal or professional services are subject to the retail sales tax, irrespective of whether or not such hospitals or nursing homes are subject to the business tax.~~

~~(For tax liability of hospitals on sales of meals, see WAC 458-20-119 and 458-20-244.))~~

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

WSR 94-01-159
PROPOSED RULES
DEPARTMENT OF REVENUE

[Filed December 21, 1993, 2:13 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-20-179 Public utility tax.

Purpose: To implement 1993 law changes contained in chapter 25, Laws of 1993 sp. sess.

Statutory Authority for Adoption: RCW 82.32.300.

Statute Being Implemented: Chapters 82.04 and 82.16 RCW.

Summary: To indicate in the rule that the exemption has been removed for what is generally referred to as "contributions in aid of construction."

Name of Agency Personnel Responsible for Drafting and Implementation: Les Jaster, 711 Capitol Way, #303, Olympia, (206) 586-7150; and Enforcement: Russ Brubaker, 711 Capitol Way, #303, Olympia, (206) 586-0257.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule provides tax reporting information to persons engaged in public utility activities. The rule indicates that the deduction for contributions in aid of construction was removed effective July 1, 1993.

Proposal Changes the Following Existing Rules: This is an amendment to WAC 458-20-179. The rule has been substantially revised to add examples and clarify tax reporting. The one major substantive change is to indicate that the deduction for contributions in aid of construction is no longer available effective July 1, 1993.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following reason(s): The changes to this rule are made to conform to mandates of the legislature and the department is given no discretionary latitude; and the department is not aware of any new or additional administrative responsibilities placed on a business as a result of this rule.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 26, 1994, at 9:30 a.m.

Submit Written Comments to: Les Jaster, Rules Coordinator, Department of Revenue, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 26, 1994.

Date of Intended Adoption: February 2, 1994.

December 21, 1993
Russell W. Brubaker
Assistant Director

AMENDATORY SECTION (Amending Order 86-16, filed 9/3/86)

WAC 458-20-179 Public utility tax. (1) Introduction. Persons engaged in certain public service businesses are taxable under the public utility tax~~((,)). (See chapter 82.16 RCW). These businesses are exempt from the business and occupation tax on the gross receipts which are subject to the public utility tax. (See RCW 82.04.310.) However, many persons taxable under the public utility tax are also engaged in some other business activity which is taxable under the business and occupation (B&O) tax. ~~((and are exempt from tax under the business and occupation tax with respect to such businesses. However, many persons taxable under the public utility tax are also engaged in some other business which is taxable under the business and occupation tax.))~~ For example, a ~~((light and power))~~ gas~~

distribution company engaged in operating a plant or system for distribution of ~~((electrical energy))~~ natural gas for sale, may also be engaged in selling at retail various ~~((electrical))~~ gas appliances. Such a company would be taxable under the public utility tax with respect to its ~~((last))~~ distribution of ~~((electric energy))~~ of natural gas to consumers, and also taxable under the business and occupation tax with respect to its sale of electrical appliances. It should also be noted that some services which generally are taxable under the public utility tax are taxable under the B&O tax if the service is performed for a new customer, prior to receipt of regular utility services by the customer.

(2) ~~((Persons who are taxable under the public utility tax, which is applied to gross income, are those engaged in the following businesses: Railroad, express, railroad car, water distribution, sewerage collection, refuse collection, light and power, telegraph, gas distribution, urban transportation and common carrier vessels under 65 feet in length, motor transportation, tugboat businesses, and all public service businesses other than those heretofore mentioned.))~~
Definitions. The following definitions apply to this section:

(a) The term "gross income" means the value proceeding or accruing from the performance of the particular public service or transportation businesses involved. It includes operations incidental to the public utility activity, but without any deduction on account of the cost of the commodity furnished or sold, the cost of materials used, labor costs, interest, discount, delivery costs, taxes, or any other expense whatsoever paid or accrued and without any deduction on account of losses.

(b) The term "service charge" means those specific charges made to a customer for providing a specific service. The term includes the actual charge to a customer for the sale or distribution of water, gas, or electricity. This term does not include utility local improvement district assessments (ULID) or local improvement district assessments (LID).

(c) The term "subject to control by the state" means control by the utilities and transportation commission or any other state department required by law to exercise control of a business of a public service nature as to rates charged or services rendered.

(3) ~~((The rates of tax for each business activity are imposed under RCW 82.16.020 and set forth on appropriate lines of the combined excise tax return forms.~~

(4) ~~The term "public service businesses" includes any of the businesses defined in RCW 82.16.010 (1), (2), (3), (4), (5), (6), (7), (8), (9), (10), and (12) or any business subject to control by the state, or having the powers of eminent domain and the duties incident thereto, or any business declared by the legislature to be of a public service nature, irrespective of whether eminent domain powers are had or state control is exercised. It includes, among others, without limiting the scope thereof: Airplane transportation, boom, dock, ferry, log patrol, pipe line, toll bridge, toll logging road, water transportation and wharf businesses.~~

(5) ~~The term "subject to control by the state" means control by the utilities and transportation commission or any other state department required by law to exercise control of business of a public service nature as to rates charged or services rendered. However, businesses may be taxed under~~

~~the public utility tax as public service businesses whether or not they are or have been regulated by the state.~~

(6) ~~The term "gross income" means "the value proceeding or accruing from the performance of the particular public service or transportation businesses involved, including operations incidental thereto, but without any deduction on account of the cost of the commodity furnished or sold, the cost of materials used, labor costs, interest, discount, delivery costs, taxes, or any other expense whatsoever paid or accrued and without any deduction on account of losses." The term "gross income" of a light and power business means those amounts or value accruing to a taxpayer from the "last distribution" of electrical energy which is a taxable event within this state. RCW 82.16.010(13).~~

(7) ~~Light and power business—special provisions. RCW 82.16.010(5) defines "light and power business" to mean the business of operating a plant or system for the generation, production, or distribution of electrical energy for hire or sale. It is the intent of the law that, except as provided below, all electrical energy generated, or produced, or distributed within this state shall be subject to the uniform tax rate for light and power business, but only at the time of its "last distribution" within this state.~~

(8) ~~The term "last distribution" means the final transmission or transfer of electrical energy before it is consumed in this state or before it is transmitted or transferred for sale to any point outside of this state. Thus, the taxable last distribution of electrical energy consumed within this state is the transmission or transfer of such energy to the consumer. The taxable last distribution of electrical energy for sale outside of this state is the transmission or transfer of such energy to the transmission system from which it will be directly further transmitted or transferred to points outside this state whether under any wheeling arrangement or through the distributor's own transmission system or the transmission system of any out-of-state person. When a light and power business within this state delivers electric energy to an entity outside of this state in consideration of such entity's agreement to deliver electric energy to such business for consumption within this state, the taxable last distribution of such electrical energy is the transmission or transfer of energy to such business' consumers in this state.~~

(9) ~~An "exchange" of electrical energy or the rights thereto is not the last distribution of such energy. An exchange is a transaction involving a delivery or transfer of energy or the rights thereto by one party to another for which the second party agrees, subject to the terms and conditions of the agreement, to deliver electrical energy at the same or another time. Examples of nontaxable exchange transactions include, but are not limited to, the following:~~

(a) ~~The residential exchange of electric power entered into between a light and power business and the administrator of the Bonneville Power Administration pursuant to the Pacific Northwest Electric Power Planning and Conservation Act, P.L. 96-501, Sec. 5(e), 16 U.S.C. 839(e) (Supp. 1982);~~

(b) ~~The exchange of electric power for electric power between one light and power business and another light and power business;~~

(c) ~~The transmission or transfer of electric power by one light and power business to another light and power business pursuant to the agreement for coordination of operations~~

~~among power systems of the pacific northwest executed as of September 15, 1964;~~

~~(d) The Bonneville Power Administration's acquisition of electric power for resale to its Washington customers in the light and power business.~~

~~(10) Any consideration received in addition to or in excess of exchange power constitutes taxable consideration.~~

~~(11) The taxpayer liable for the payment of public utility tax under the light and power business classification is the "person" (as defined by RCW 82.04.030) who last distributes electrical energy within this state as explained above. Electrical energy generated or transmitted by the United States Army Corps of Engineers, United States Bureau of Reclamation, or the Bonneville Power Administration is not subject to this tax unless and until it is transferred by such federal entity to another person engaged in the light and power business within this state and then only upon the last distribution of such energy by such light and power business.~~

~~(12) For purposes of measuring the public utility tax liability, the "amount or value derived from the last distribution of electrical energy" (RCW 82.16.010(13) definition of "gross income") is the total consideration in terms of money or other value, however designated, received by or accruing to the taxpayer. PROVIDED, That the tax measure is the cost of production but not to exceed the fair market value of the electrical energy at the time it is generated in this state for any of the following: (a) For electrical energy generated in this state and transmitted or transferred by the person who generated the same to points outside this state without prior sale; and (b) for electrical energy sold pursuant to an agreement which requires the purchaser to pay certain costs of the generating facility without regard to the amount of electrical energy produced by such facility.~~

~~(13) In distinguishing gross income taxable under the public utility tax from gross income taxable under the business and occupation tax, the department of revenue will be guided by the uniform system of accounts established for the specific type of utility concerned. However, because of differences in the uniform systems of accounts established for various types of utility businesses, such guides will not be deemed controlling for the purposes of classifying revenue under the Revenue Act.~~

~~(14)) **Persons taxable under the public utility tax.** The term "public service businesses" includes any of the businesses defined in RCW 82.16.010 (1) through (9), and (11). It also includes any business subject to control by the state, or having the powers of eminent domain, or any business declared by the legislature to be of a public service nature, irrespective of whether the business has the powers of eminent domain or the state exercises its control over the business. It includes, among others, without limiting the scope thereof: Railroad, express, railroad car, water distribution, sewerage collection, light and power, telegraph, gas distribution, urban transportation and common carrier vessels under 65 feet in length, motor transportation, tugboat businesses, certain airplane transportation, boom, dock, ferry, log patrol, pipe line, toll bridge, toll logging road, and wharf businesses. (See WAC 458-20-251 for sewerage collection). Persons engaged in these business activities are subject to the public utility tax even if they are not publicly recognized~~

as providing that type of service or the amount of income from these activities is not substantial.

(a) "Light and power business" includes charges made for the "wheeling" of electricity for others. "Wheeling" is the activity of delivering or distributing electricity owned by others using power lines and equipment of the person doing the wheeling.

(b) Persons engaged in hauling for hire by motor vehicle should also refer to WAC 458-20-180.

(c) Persons hauling property, other than U.S. mail, by air transportation equipment are taxable under the other public service public utility tax. Income from the hauling of U.S. mail or passengers is not subject to the public utility tax because of specific federal law. (See 49 U.S.C. section 1301 and section 1513(a)).

(d) Persons engaged in hauling persons or property for hire by watercraft between points in Washington are taxable under the public utility tax. Income from operating tug boats of any size and income from the sale of transportation services by vessels over sixty-five feet is taxable under the public service utility tax classification. Income from the sale of transportation services using vessels under sixty-five feet, other than tug boats, is taxable under "vessels under sixty-five feet" public utility tax classification. These classifications include businesses engaged in chartering or transporting persons by water from one location in Washington to another location within this state. This does not include sight seeing tours or activities which are in the nature of guided tours where the tour may include some water transportation. Persons engaged in providing tours should refer to WAC 458-20-258.

(e) Income from activities which are incidental to a public utility activity are generally taxable under the public utility tax when performed for an existing customer. This includes charges for line extensions, connection fees, line drop charges, start up fees, pole replacements, testing, replacing meters, line repairs, line raisings, pole contact charges, load factor charges, meter reading fees, etc. However, if any of these services are performed for a customer prior to sale of a public utility service to the customer, the income is taxable under the business and occupation tax. (See subsection (4) below.)

(4) **Business and occupation tax.** As indicated above, services which are incidental to a public utility activity are generally subject to the public utility tax. However, these types of charges are taxable under the service and other business activities B&O tax classification if performed for a customer prior to receipt of the utility services (gas, water, electricity) by a new customer. A "new customer" is a customer who previously has not received utility services, such as water, gas, or electricity, at the location where the charge for a specific service was provided. For example, a customer of a water supplier who currently receives water at a residence constructs a new residence a short distance from the first location. This customer will be considered a "new customer" with respect to any charges for services performed at the new location until the customer actually receives water at the new location, even though this customer may be receiving services at a different location. The charge for installing a meter or a connection charge for this customer at the new location would be taxable under the service and other activities B&O tax classification.

Amounts charged to customers as interest or penalties are generally taxable under the service and other business activities B&O tax classification. This includes interest charged for failure to timely pay for utility services or for special services which were performed prior to the customer receiving services, such as connection charges. However, any interest and/or penalty charged because of the failure to timely pay a LID or ULID assessment will not be taxable for the public utility tax or the B&O tax.

(5) Tax rates. The rates of tax for each business activity are imposed under RCW 82.16.020 and set forth on appropriate lines of the combined excise tax return forms.

(6) Uniform system of accounts. In distinguishing gross income taxable under the public utility tax from gross income taxable under the business and occupation tax, the department of revenue will be guided by the uniform system of accounts established for the specific type of utility concerned. However, because of differences in the uniform systems of accounts established for various types of utility businesses, such guides will not be deemed controlling for the purposes of classifying revenue under the Revenue Act.

(7) Volume exemption. Persons subject to the public utility tax are exempt from the payment of this tax ((for any reporting period in which taxable income reported under the combined total of all public utility tax classifications does not equal or exceed the minimum taxable amount for the reporting periods assigned to such persons according to the following schedule:)) if the taxable income from utility activities does not meet a minimum threshold. There is a similar exemption for the business and occupation tax with different threshold amounts. (See WAC 458-20-104). The volume exemption for the public utility tax applies independently of the business and occupation tax exemption. The volume exemption for the public utility tax applies for any reporting period in which taxable income reported under the combined total of all public utility tax classifications does not equal or exceed the minimum taxable amount for the reporting periods assigned to such persons according to the following schedule:

Monthly reporting basis \$500 per month
 Quarterly reporting basis \$1500 per quarter
 Annual reporting basis \$6000 per annum

(8) Exemption of amounts or value paid or contributed to any county, city, town, political subdivision, or municipal corporation for capital facilities. RCW 82.04.417 previously provided an exemption from the public utility tax and the business and occupation tax for amounts received by cities, counties, towns, political subdivisions, or municipal corporations representing contributions for capital facilities. These contributions are often referred to as "contributions in aid of construction". This law was repealed effective July 1, 1993 and this exemption is no longer available after that date. (See Chapter 25, Laws of Washington 1993, 1st Special Session). However, contributions in the form of equipment will not be considered as taxable income. For example, if an industrial customer purchases and installs transformers which it donates to a public utility district as a condition of receiving future service, the public utility district will not be subject to the public utility tax or B&O tax on the receipt of the donated transformers.

(9) Specific deductions. ((~~(15) Deductions.~~)) Amounts derived from the following sources ((do not constitute taxable income in computing tax under the public utility tax:)) may be deducted from the gross income under the public utility tax if included in the gross amounts reported:

(a) Amounts derived by municipally owned or operated public services businesses directly from taxes levied for the support thereof, but not including service charges which are spread on the property tax rolls and collected as taxes. LID and ULID assessments, including interest and penalties on such assessments, will not be considered part of the taxable income because they are exercises of the jurisdiction's taxing authority. These assessments may be composed of a share of the costs of capital facilities, installation labor, connection fees, etc. A deduction may be taken for these amounts if the gross amounts include LID or ULID assessments.

(b) Amounts derived by persons engaged in the water distribution, light and power, or gas distribution business, from the sale of commodities to persons in the same public service business for resale as such within this state.

(c) Amounts actually paid by a taxpayer to another person taxable under chapter 82.16 RCW as the latter's portion of the consideration due for services jointly furnished by both. This includes the amount paid to a ferry company for the transportation of a vehicle and its contents (but not amounts paid to state owned or operated ferries) when such vehicle is carrying freight or passengers for hire and is being operated by a person engaged in the business of urban transportation or motor transportation. It does not include amounts paid for the privilege of moving such vehicles over toll bridges. The following is an example of how this deduction applies.

Customer A hires ABC Transport to haul goods from Tacoma, Washington to a manufacturing facility at Bellingham. ABC Transport subcontracts part of the haul to XYZ Transport and has XYZ haul the goods from Tacoma to Everett where the goods are loaded into ABC's truck. ABC may deduct the payments it makes to XYZ as a "jointly furnished service".

(d) Amounts derived from the distribution of water through an irrigation system, solely for irrigation purposes.

(e) Amounts derived from the transportation of commodities from points of origin in this state to final destination outside this state, or from points of origin outside this state to final destination in this state with respect to which the carrier grants to the shipper the privilege of stopping the shipment in transit at some point in this state for the purpose of storing, manufacturing, milling, or other processing, and thereafter forwards the same commodity, or its equivalent, in the same or converted form, under a through freight rate from point of origin to final destination((;)).

(f) Amounts derived from the transportation of commodities from points of origin in the state to an export elevator, wharf, dock or shipside on tidewater or navigable tributaries thereto from which such commodities are forwarded, without intervening transportation, by vessel, in their original form, to an interstate or foreign destination: PROVIDED, That no deduction will be allowed when the point of origin and the point of delivery to such export elevator, wharf, dock, or shipside are located within the corporate limits of the same city or town. The following examples show how this deduction applies.

(i) ABC Trucking delivers logs to a storage area which is adjacent to the dock from where shipments are made by vessel to a foreign country. The logs go through a peeling process at the storage area prior to being placed on the vessel. The peeling process changes the form of the original log. Because the form of the log is changed, ABC Trucking may not take a deduction for the haul to the storage area. It is immaterial that the trucker may be paid based on an "export" rate.

(ii) ABC Trucking hauls logs from the woods to a log storage area which is adjacent to the dock. The logs will be sorted prior to being placed in the hold of the vessel, but no further processing will be performed. The storage area is quite large and the logs will be moved by log stacker and will be placed alongside the ship. The logs are loaded using the ship's tackle and then transported to a foreign country. ABC Trucking may take a deduction for the amounts received for transporting the logs from the woods to the log storage area. The movement of the logs within the log storage area is not considered to be "intervening transportation", but is part of the stevedoring activity.

(iii) ABC Trucking hauls logs from the woods to a "staging area" where the logs are sorted. After sorting, XY Hauling will transport some of the logs from the staging area to local mills for lumber manufacturing and other logs to the dock which is located approximately five miles from the staging area where the logs immediately are loaded on a vessel for shipment to Japan. The dock and staging area are not within the corporate city limits of the same city. ABC Trucking may not take a deduction for amounts received for hauling logs to the staging area. Even though some of these logs ultimately will be exported, ABC Trucking is not delivering the logs directly to the dock where the logs will be loaded on a vessel.

However, XY Hauling may take a deduction for the income from hauls to the dock. Its haul was the final transportation prior to the logs being placed on the vessel for shipment to Japan. The logs remained in their original form with no additional processing. The haul also did not originate or terminate within the corporate city limits of the same city or town. All the conditions were met for XY Hauling to claim the deduction. ~~((and amounts derived from the transportation of commodities from points of origin in the state to an export elevator, wharf, dock or shipside on tidewater or navigable tributaries thereto from which such commodities are forwarded, without intervening transportation, by vessel, in their original form, to interstate or foreign destination: PROVIDED, That no deduction will be allowed when the point of origin and the point of delivery to such export elevator, wharf, dock, or shipside are located within the corporate limits of the same city or town.~~

~~(f) Amounts or value paid or contributed to any county, city, town, political subdivision, or municipal or quasi municipal corporation of the state of Washington representing payments of special assessments or installments thereof and interests and penalties thereon, charges in lieu of assessments, or any other charges, payments or contributions representing a share of the cost of capital facilities constructed or to be constructed or for the retirement of obligations and payment of interest thereon issued for capital purposes. The business and occupation tax is likewise inapplicable to such amounts. Service charges shall not be included in this~~

~~exemption even though used wholly or in part for capital purposes.))~~

~~(g) Amounts derived from the distribution of water by a nonprofit water association which are used for capital improvements by that association.~~

~~((h) Amounts received by cities, counties, towns, or municipal corporations as payment of a share of the cost of capital facilities, but excluding charges for utility services which may be used for capital purposes.))~~

(h) Amounts received from sales of power which is delivered by the seller out-of-state. The sales of this power by the person generating the power is also not subject the manufacturing B&O tax.

(i) Amounts received for providing commuter share riding or ride sharing for the elderly and the handicapped in accordance with RCW 46.74.010.

(j) Amounts expended to improve consumers' efficiency of energy end use or to otherwise reduce the use of electrical energy or gas by the consumer. (For details see WAC 458-20-17901.)

~~(k) ((Amounts equal to the cost of production at the plant for consumption in this state of:~~

~~(i) Electrical energy produced from cogeneration as defined in RCW 82.35.020; and~~

~~(ii) Electrical energy or gas produced from renewable energy resources (e.g., solar, wind, hydro, geothermal, wood, wastes, and end-use waste heat. (For details see WAC 458-20-17901.))) Income from transporting persons or property by air, rail, or water where either the origin or destination of the haul is outside the state of Washington.~~

~~((16) Income derived from any of the foregoing sources is to be included within the reported gross income, and the applicable deductions may be taken in computing tax liability.~~

~~(17) Contributions in aid of construction not falling within item "6" above are subject to public utility tax, except that amounts received for line extensions, connection fees, and other charges for services rendered prior to the receipt of utility services by the customer against whom the charges are made are subject to business and occupation tax under the service and other activities classification rather than the public utility tax.~~

~~(18))~~ (10) Other deductions. In addition to the ~~((foregoing))~~ deductions discussed above there also may be ~~((deducted))~~ deductions from the reported gross income (if included ~~((therein))~~ within the gross), the following:

(a) The amount of cash discount actually taken by the purchaser or customer.

(b) The amount of credit losses actually sustained.

(c) Amounts received from insurance companies in payment of losses.

(d) Amounts received from individuals and others in payment of damages caused by them to the utility's plant or equipment.

~~((19) For specific rules pertaining to the classifications of "urban transportation" and "motor transportation," see WAC 458-20-180.~~

(20) Notice - Refuse and sewerage collection businesses. The specific provisions of this section, respecting refuse and sewerage collection businesses have been repealed, retroactively to July 1, 1985. The new express provisions for taxability of such businesses from July 1, 1985, forward are

~~now set forth in WAC 458-20-250 (Refuse collection business) and WAC 458-20-251 (Sewerage collection business);-)~~

(11) Customer billing information. RCW 82.16.090 requires that customer billings issued by light or power businesses or gas distribution businesses serving more than twenty thousand customers shall include the following information:

(a) The rates and amounts of taxes paid directly by the customer upon products or services rendered by such businesses; and,

(b) The rate, origin and approximate amount of each tax levied upon the revenue of such businesses which has been added as a component of the amount charged to the customer. This does not include taxes levied by the federal government or taxes levied under chapters 54.28, 80.24, or 82.04 RCW.

(12) Motor or urban transportation. For specific rules pertaining to the classifications of "urban transportation" and "motor transportation," see WAC 458-20-180.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

**WSR 94-01-161
PROPOSED RULES
OFFICE OF THE
SECRETARY OF STATE**

(Division of Archives and Records Management)
[Filed December 21, 1993, 2:25 p.m.]

Supplemental Notice to WSR 93-14-001.

Title of Rule: Chapter 434-663 WAC, Imaging systems, standards for accuracy and durability.

Purpose: Prescribes standards for the creation, maintenance, accuracy, durability, and permanence of electronic imaging systems used for public records by state and local government.

Statutory Authority for Adoption: Chapter 40.14 RCW.
Statute Being Implemented: RCW 40.14.020.

Summary: Establishes standards for the use of imaging systems for public records maintained by state and local government agencies.

Reasons Supporting Proposal: Informs state and local government agencies of accuracy, durability and quality control standards for imaging systems.

Name of Agency Personnel Responsible for Drafting: Michael Betz, 1120 Washington Street S.E., Olympia, WA 98504, 753-1801; Implementation and Enforcement: Sidney McAlpin, 1120 Washington Street S.E., Olympia, WA 98504, 753-5485.

Name of Proponent: Secretary of State, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Prescribes standards for the use of imaging systems for public records maintained by state and local government agencies. Informs state and local government agencies of these standards. Will help insure the quality of imaging

systems products including accuracy, durability and permanence of the imaged record.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: State Archives Building, 1120 Washington Street S.E., Olympia, WA 98504, on January 28, 1994, at 9:00 a.m.

Submit Written Comments to: Michael Betz, Division of Archives, 1120 Washington Street S.E., Olympia, WA 98504-0238, by January 21, 1994.

Date of Intended Adoption: February 15, 1994.

December 21, 1993

Michael Betz

State Senior Archivist/Conservator

**Chapter 434-663 WAC
IMAGING SYSTEMS, STANDARDS FOR
ACCURACY AND DURABILITY**

**LEGALITY OF ELECTRONIC IMAGING SYSTEMS
USED FOR MANAGING AND STORING PUBLIC
RECORDS**

NEW SECTION

WAC 434-663-100 Legality. Electronic imaging systems may be legally used for recording, producing, reproducing, maintaining, and storing public records provided that they materially meet the standards set forth in this regulation; and the retention and disposition of the original and copies regardless of media are scheduled in accordance with chapter 40.14 RCW. Nothing in this chapter can be construed to limit the admissibility as evidence of any public record. The purpose of this regulation is the preservation of information, and the facilitation of the migration of archival, permanent, and long-term records.

DEFINITIONS

NEW SECTION

WAC 434-663-200 Electronic document imaging system. An electronic document imaging system is a computer-based configuration of equipment and software that stores machine-readable document images and their associated character-coded index data for on-demand retrieval. Electronic images can be computer generated, or created through document scanning.

NEW SECTION

WAC 434-663-210 Document scanning. A specially designed input workstation is required to convert documents or images to machine-readable form for computer processing and storage. At a minimum, the input workstation includes a document scanner, an image processor unit, a video display unit, keyboard, and access to storage. Using a solid-state array or other photo-sensitive components, the document scanner measures the amount of light associated with successively encountered PELs (Picture Element) and transmits a corresponding electrical signal that is converted to computer compatible digital codes.

NEW SECTION

WAC 434-663-220 Image. An image can be a document, picture, or graphic. An image can be produced by scanning paper or film documents, producing images through a computer program, receiving an image by means of a fax, or by other means.

NEW SECTION

WAC 434-663-230 Enhancement. Any method including adjusting brightness and contrast, or algorithm employed with the objective of producing an accurate and legible copy.

NEW SECTION

WAC 434-663-240 Archival records. Archival records are records that have permanent and/or historical value and are scheduled as archival. Long-term records are records having a retention period in excess of ten years. Permanent records are those records that are required by specific statute to be retained permanently.

NEW SECTION

WAC 434-663-250 Open system. Open system is defined to be a system that implements sufficient public specifications for interfaces, services and supporting formats to enable applications software to be ported across a wide range of systems, to interoperate or interchange with other applications on local and remote systems, and to interact with users in a style that facilitates portability. Public specifications are maintained by open, public consensus process to accommodate new technology over time, and which are consistent with international standards.

NEW SECTION

WAC 434-663-260 De facto standard. A de facto standard is a widely accepted industry standard without official recognition by a standards group.

QUALITY OF DIGITAL IMAGES

NEW SECTION

WAC 434-663-300 Quality of digital images. Ensuring the quality of digital images requires exercising control over six processes: Conversion of the original image to digital data, enhancement of the digital image if necessary, compression of the digital data for storage, decompression of digital data for retrieval, displaying the image, and printing.

NEW SECTION

WAC 434-663-310 Enhancement of original image. Enhancement can be used to ensure readability of the documents and to improve the accuracy of the copy by scanning these documents using varying enhancement algorithm settings. Use the best scanned images as the operational criteria for acceptable image quality.

NEW SECTION

WAC 434-663-320 Compressing image data for storage. Imaging systems containing archival, permanent, or long-term information must use a compression technique that meets either a published or de facto standard. If such a technique cannot be used, the software vendor must provide a bridge to a standard.

USABILITY OF IMAGE AND INDEX DATA OVER TIME

NEW SECTION

WAC 434-663-400 Usability of image and index data over time. Maintaining access to and usability of electronic records requires ensuring continuous readability and intelligibility. Readability means the ability to process images both on the computer system on which they were created and on different computer systems without loss of information. Intelligibility means that humans can comprehend the information the computer reads. Ensuring readability and intelligibility of electronic records over time entails maintenance of environmental conditions, periodic recopying, and strategies to preserve data by migration from one generation of technology to another through a commitment to open architecture.

NEW SECTION

WAC 434-663-410 Defining indexing requirements. The selection of indexing parameters is based on an analysis of retrieval requirements associated with a particular application, and must insure rapid and accurate retrieval of information. For systems containing archival, permanent, or long-term records, index design must take into account the retrieval requirements of both current and future users of the records, including government agency personnel as well as researchers and the general public.

NEW SECTION

WAC 434-663-420 Preservation strategy. A preservation strategy must be developed and implemented for each image system containing long-term, permanent, or archival information. Four preservation strategy options are acceptable:

- (1) Retain the original paper documents; or
- (2) Microfilm the original documents; or
- (3) Recopy optical media when necessary to insure the integrity of the information, and recopy magnetic media every ten years; or
- (4) Print images on microfilm.

NEW SECTION

WAC 434-663-430 Header on image files. A de facto or industry standard header label on image files or a gateway to a nonproprietary header label shall be used for imaging systems that contain long-term, permanent, or archival information. This will allow access to the information by dissimilar systems now and in the future.

NEW SECTION

WAC 434-663-440 Backup for recovery. In order to facilitate a recovery of lost information and the restoration of system operations in the event of a malfunction or other disaster, properly implemented backup procedures must be in place. Backup security copies of document images and indexes through either simultaneous recording or periodic batch mode backup.

NEW SECTION

WAC 434-663-450 Ensuring usability. At a minimum, the system must include an electronic error checking utility that will check the integrity of the data when written to the media.

NEW SECTION

WAC 434-663-460 Stability of media. Records and their indexes having a permanent or archival retention or a retention of over ten years require long-term stability of the media used. Three interrelated issues impact long-term stability:

- (1) Media selection, including storage and recording technology;
- (2) Quality of data stored;
- (3) Media protection.

NEW SECTION

WAC 434-663-470 Storage media. Write-once-read-many (WORM) media should be used for records having a permanent or archival retention or a retention of over ten years. If WORM technology is not practical for an application, and rewritable media is used, ensure that read/write privileges are carefully controlled and that an audit trail of rewrites is maintained.

NEW SECTION

WAC 434-663-480 Optical media durability. Durability for optical media is defined as post-write shelf life. For records having a permanent or archival retention or a retention of over ten years, use media with a minimum twenty-year post-write life. Vendors must document that aging tests have been conducted.

NEW SECTION

WAC 434-663-490 Archival, permanent, and long-term off-line storage environment. Media should be stored in a dust-free area with a stable temperature between sixty and seventy degrees Fahrenheit with a fluctuation of plus or minus two degrees, and relative humidity between twenty and forty-five percent with a fluctuation of plus or minus five percent. Media should be stored in a suitable container to protect against particulate and fingerprints. Optical disks and magnetic tapes should be stored vertically. The reliability of the data should be tested every ten years. Magnetic tape should be precision rewound every five years and before each use. Every ten years, data stored on magnetic tape shall be transferred to pretested fresh stock.

FUNCTIONALITY OF SYSTEM COMPONENTSNEW SECTION

WAC 434-663-500 Open systems architecture. Ensuring the usability of digital images to serve the functions for which they were designed involves long-term commitment to an open systems architecture and an approach to component upgrading, data transfer, and migration path that guarantees the portability of current data to be used with future technologies.

NEW SECTION

WAC 434-663-510 Backward compatibility. System upgrades or new systems acquired after the effective date of this regulation containing archival, long-term, or permanent records must provide backward compatibility to any existing systems containing the same records series, or be able to provide for the conversion of existing stored data to the new system.

NEW SECTION

WAC 434-663-520 Availability of index data base for off-line media. The index data must be available for media containing archival permanent or long-term documents.

NEW SECTION

WAC 434-663-530 Technical documentation. Technical documentation on system components, application software and operating systems is essential, and shall be maintained to facilitate long-term access to archival, permanent, and long-term records.

RETENTION AND DISPOSITION OF RECORDSNEW SECTION

WAC 434-663-600 Retention and disposition of public records. Conversion to an imaging system does not automatically authorize the destruction of the original records. Destruction of, or changes to the retention of any public records due to conversion to or the use of a new media requires legal approval of the state or local records committee of the state of Washington through the retention and disposition scheduling process in accordance with chapter 40.14 RCW and chapter 434-635 WAC.

NEW SECTION

WAC 434-663-610 Records retention scheduling for records on imaging system. The retention scheduling of information to be placed on an imaging system must be done prior to the creation or copying of the records, and may require a cost benefit analysis. Decisions about the retention value of information stored on an imaging system are related to the value of the original information included in the system.

NEW SECTION

WAC 434-663-620 Security copies. Records with permanent legal value, stored on electronic media should have a security backup copy on another type of media. If this is impractical, the user must obtain permission to retain electronic copies as the sole media from the state records committee or the local records committee on a case-by-case basis as part of the records scheduling process. Such permission will be granted if there are strong backup systems in place, and systems and procedures in place for periodic recopying.

NEW SECTION

WAC 434-663-630 Agency acquisition—Department of information services approval. State agencies intending to utilize an imaging system for the storage or conversion of public records must include such plans in their biennial information technology plan submitted to the department of information services and comply with other requirements of DIS as may apply.

**WSR 94-01-162
PROPOSED RULES
DEPARTMENT OF AGRICULTURE**
[Filed December 21, 1993, 2:55 p.m.]

Original Notice.

Title of Rule: Apiarist registration fees, schedule.

Purpose: To establish a registration fee schedule for resident and nonresident beekeepers, owning and/or operating hives in Washington, in support of the industry apiary program within the Department of Agriculture.

Statutory Authority for Adoption: RCW 15.60.050.

Statute Being Implemented: RCW 15.60.050.

Summary: Establishes a fee structure to assess beekeepers in support of the industry apiary program specified in RCW 15.60.050. Resident and nonresident beekeepers pay the same rate.

Reasons Supporting Proposal: The 1993 legislature deleted general funds for the program. The industry proposes a fee schedule which will partially support the program. Additional fees from users of pollination will be sought to completely fund the program. Statutory changes are being sought for this.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: James C. Bach, 1111 Washington Street, Olympia, (206) 902-2068.

Name of Proponent: Industry, Department of Agriculture, public and governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The rule will establish a program user fee structure instead of partial state general funding as in the past. Its purpose is to fund the industry apiary program in the department, as specified in the 1993 legislative rewrite of chapter 15.60 RCW. This rule is expected to generate approximately \$33,000 per annum from beekeepers.

Additional funding will be sought from users of honey bee pollination services.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Natural Resources Building, 1111 Washington Street, Room 259, Olympia, WA 98504, on January 25, 1994, at 7:00 p.m.; and at the Agriculture Service Center, 2015 South 1st Street, Yakima, WA 98903, on January 26, 1994, at 7:00 p.m.

Submit Written Comments to: James C. Bach, P.O. Box 42560, Olympia, WA 98504-2560, by January 26, 1994.

Date of Intended Adoption: February 10, 1994.

December 20, 1993

K. Diane Dolstad

Assistant Director

NEW SECTION

WAC 16-602-025 Apiarist registration fees, schedule.

(1) Beekeepers in the following two categories shall pay a fee for owning or operating colonies of bees in Washington:

(a) Resident beekeepers of Washington;

(b) Nonresident beekeepers operating colonies in Washington for the purpose of producing honey or other products, or their use or rental for pollination of agricultural crops.

(2) Both categories of beekeepers shall pay a fee based upon the number of colonies they own or will operate during the calendar year in Washington. The fee schedule shall be as follows:

| | |
|------------------------|----------|
| 1 - 5 colonies | \$ 5.00 |
| 6 - 25 colonies | \$ 10.00 |
| 26 - 100 colonies | \$ 25.00 |
| 101 - 300 colonies | \$ 50.00 |
| 301 - 500 colonies | \$100.00 |
| 501 - 1,000 colonies | \$200.00 |
| 1,001 or more colonies | \$300.00 |

This fee schedule shall remain in effect unless changed upon the advice of the apiary advisory committee and pursuant to the Administrative Procedure Act, chapter 34.05 RCW.

(3) The registration fee shall be paid, on or before April first, on the number of colonies of bees:

(a) Owned by resident beekeepers;

(b) Operated and or rented for pollination by nonresident beekeepers during the calendar year in Washington.

A late charge of one and one-half percent per month shall be assessed on the unpaid balance against persons more than thirty days in arrears.

**WSR 94-01-163
PROPOSED RULES
DEPARTMENT OF AGRICULTURE**
[Filed December 21, 1993, 2:58 p.m.]

Original Notice.

Title of Rule: Pea cyst nematode quarantine.

Purpose: To establish an internal quarantine against the pest known as the pea cyst nematode.

Statutory Authority for Adoption: Chapter 17.24 RCW.
Statute Being Implemented: Chapter 17.24 RCW.

Summary: The proposed quarantine specifically restricts movement of machinery, products and soil from infested fields unless they are washed or treated to prevent pest movement.

Reasons Supporting Proposal: The pea cyst nematode is a serious pest that threatens the pea and lentil crops in this state. The market for export crops that are grown in rotation with peas will be limited if the state fails to act. Washington state could also be quarantined by the federal government if we do not act.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: K. Diane Dolstad, 1111 Washington Street, Olympia, (206) 902-2060.

Name of Proponent: Department of Agriculture, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The proposed rule establishes an internal quarantine for pea cyst nematode. The intent of the quarantine is to prevent a federal quarantine of Washington state, and to maintain the export market for crops grown in rotation with peas.

Proposal Changes the Following Existing Rules: Establishes an internal quarantine for pea cyst nematode.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

This quarantine will have the same impact on both large and small businesses. There is no mitigation measure that would lessen the economic impact on small firms. Any field found to be infested with pea cyst nematode would be under quarantine.

Hearing Location: On January 27, 1994, at 1:00 p.m., Natural Resources Building, 1111 Washington Street, Conference Room 259, Olympia, WA 98504; and on January 28, 1994, at 1:00 p.m., Skagit County Administration Building, 700 South 2nd Street, Hearing Room A, Mt. Vernon, WA 98273.

Submit Written Comments to: K. Diane Dolstad, P.O. Box 42560, Olympia, WA 98504-2560, by January 28, 1994.

Date of Intended Adoption: February 17, 1994.

December 21, 1993

K. Diane Dolstad
Assistant Director

NEW SECTION

WAC 16-470-92005 Pea cyst nematode quarantine—Establishing. An interior quarantine is established under chapter 17.24 RCW against the pest known as pea cyst nematode, *Heterodera goettingiana* Liebscher. The pea cyst nematode is a serious nematode pest which threatens the production of peas, vetch, lentils, and other vegetable crops as well as reduces the market for other major crops such as potatoes, flower bulbs and ornamental crops grown in rotation. The pea cyst nematode, not known to occur elsewhere in the United States, has been detected in Washington. The director has determined that the spread of this infestation would entail great economic loss to the horticultural and other agricultural interests of this state and has

established this quarantine setting forth rules for the movement of regulated articles from the infested areas.

NEW SECTION

WAC 16-470-92010 Pea cyst nematode quarantine—Definitions. The definitions set forth in this section shall apply to WAC 16-470-92005 through 16-470-92040, unless the context otherwise requires.

(1) "Certificate" or "certificate of inspection" means an official document certifying compliance with the requirements of WAC 16-470-92005 through 16-470-92040. The term "certificate" includes labels, rubber stamp imprints, tags, permits, written statements, or a form of inspection and certification document that accompanies the movement of inspected and certified plant material and plant products.

(2) "Compliance agreement" means a written agreement between the department and a person engaged in growing, handling or moving articles, plants or plant products regulated under WAC 16-470-92020, in which the person agrees to comply with stipulated requirements.

(3) "Farm tool" means an instrument worked or used by hand, e.g., hoes, rakes, shovels, axes, hammers, and saws.

(4) "Pea cyst nematode" means the nematode known as the pea cyst nematode (*Heterodera goettingiana*), in any stage of development.

(5) "Infestation" means the presence of the pea cyst nematode or the existence of circumstances that make it reasonable to believe that the pea cyst nematode is present.

(6) "Mechanized cultivating equipment; and mechanized harvesting equipment" means mechanized equipment used for soil tillage, including tillage attachments for farm tractors, e.g., tractors, disks, plows, harrows, planters, and subsoilers; mechanized equipment used for harvesting purposes, e.g., combines, conveyors, and harvesters and hay balers.

(7) "Mechanized soil-moving equipment" means equipment used for moving or transporting soil, e.g., draglines, bulldozers, dump trucks, road scrapers, etc.

NEW SECTION

WAC 16-470-92015 Pea cyst nematode quarantine—Regulated area. Area regulated under the pea cyst nematode quarantine includes real or personal properties within the counties of Skagit, Lewis and other counties within the state of where pea cyst nematode is confirmed by the department, and where the following conditions apply:

(1) The department has identified pea cyst nematode or the real or personal property has been identified as a recipient of infected plants or contaminated soil, plant parts, equipment or tools; and

(2) The occupants and owners of those properties have been notified in writing by the department of the pea cyst nematode infestation or the receipt of infected plants, and the conditions and requirements of this quarantine as provided in WAC 16-470-92005 through 16-470-92040.

Regulated areas are subject to the restrictions provided in WAC 16-470-92005 through 16-470-92040.

NEW SECTION

WAC 16-470-92020 Pea cyst nematode quarantine—Regulated articles. Articles regulated under the pea cyst nematode quarantine include all parts or portions of the pea cyst nematode. In addition the following are regulated articles and are hereby declared to be hosts or possible carriers of the pea cyst nematode and shall not be moved from the regulated areas provided in WAC 16-470-92015 either directly, indirectly, diverted or reconsigned, except as provided for in WAC 16-470-92025 and 16-470-92030:

(1) All plant or plant parts of any pea, vetch, broad bean, lentil species including but not limited to the following:

| COMMON NAME | SCIENTIFIC NAME |
|--------------------|------------------|
| Garden Peas | Pisum sativum |
| Field/Broad Bean | Vicia faba |
| Vetch/Winter Vetch | V. sativa |
| Hairy Vetchling | Lathyrus hirsuta |
| Black Pea | L. niger |
| Grass Vetchling | L. nissolia |
| N/A | L. ochrus |
| Lentil | Lens esculenta |

(2) Soil, compost, humus, muck, peat, and decomposed manure, separately or with other things.

(3) Plants with roots, except soil-free aquatic plants or bare rooted stock when completely free from soil.

(4) Grass sod.

(5) Plant crowns and roots for propagation.

(6) True bulbs, corms, rhizomes, and tubers of ornamental plants.

(7) Potatoes for seed or table stock.

(8) All other root crops.

(9) All fodder, and plant litter, of any kind.

(10) Used crates, boxes, and burlap bags, and other containers used for farm product.

(11) Used farm tools.

(12) Used mechanized cultivating equipment and used harvesting equipment.

(13) Used mechanized soil-moving equipment.

(14) Any other products, articles, or means of conveyance of any character whatsoever when it is determined by the director that they present a hazard of spread of pea cyst nematode, and the person in possession has been so notified in writing.

NEW SECTION

WAC 16-470-92025 Pea cyst nematode quarantine—Conditions governing the movement of used tools and equipment. Used tools and equipment identified as regulated articles in WAC 16-470-92020 (10), (11), (12), and (13) are prohibited movement from the regulated areas prescribed in WAC 16-470-92015 unless such articles that may have come in contact with infected plants or contaminated soil are:

(1) Disinfected by washing with steam, high pressure hot water or other means approved by the director; and

(2) Protected from further contact with infected plants or contaminated soil.

NEW SECTION

WAC 16-470-92030 Pea cyst nematode quarantine—Conditions governing the movement of plants, plant parts and soil. (1) The movement of any plant, plant parts or soil listed in WAC 16-470-92020 from the regulated areas listed in WAC 16-470-92015 is prohibited except under the following conditions:

(a) The regulated articles have been treated in a manner prescribed by the director to destroy any infestation; or

(b) Have been grown, produced, manufactured, stored, or handled in such a manner under a compliance agreement that no infestation would be transmitted.

(2) Regulated articles moving out of the regulated area must be accompanied by an official certificate attesting compliance to the requirements in subsection (1) of this section.

NEW SECTION

WAC 16-470-92035 Pea cyst nematode quarantine—Compliance agreements and special permits. The director may enter into compliance agreements with persons, or issue special permits allowing movement of regulated articles under quarantine as specified in WAC 16-470-92020 not otherwise eligible for movement from the regulated area, subject to conditions that the director may prescribe to prevent introduction, escape or spread of the pea cyst nematode. Compliance agreements and special permits may be suspended or revoked for cause.

NEW SECTION

WAC 16-470-92040 Pea cyst nematode quarantine—Disposition of regulated articles moved in violation—Penalties. All plants and plant parts listed in WAC 16-470-92020, moved from the regulated area established in WAC 16-470-92015 in violation of the requirements of WAC 16-470-92005 through 16-470-92040 may be impounded by the department and treated, destroyed by incineration or burial in a landfill, or returned to the regulated area if such return does not present an undue hazard of spreading the infestation.

WSR 94-01-164
PROPOSED RULES
OFFICE OF MINORITY AND
WOMEN'S BUSINESS ENTERPRISES
 [Filed December 21, 1993, 3:50 p.m.]

Original Notice.

Title of Rule: WAC 326-40-040 Contents of agency and educational institution's plan.

Purpose: To implement chapter 39.19 RCW as amended by section 9, chapter 512, Laws of 1993.

Statutory Authority for Adoption: RCW 39.19.030(7).
 Statute Being Implemented: RCW 39.19.060.

Summary: The proposed change adds requirement for the inclusion of specific information in agency plans as mandated by the legislature.

Reasons Supporting Proposal: Provides clear guidance to state agencies and educational institutions on new require-

ment and distinguishes between the levels of detail required based on size of organization.

Name of Agency Personnel Responsible for Drafting: Juan Huey-Ray, 406 South Water, Olympia, WA, (206) 753-9697; Implementation and Enforcement: James A. Medina, 406 South Water, Olympia, WA, (206) 753-9697.

Name of Proponent: Office of Minority and Women's Business Enterprises, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule assists agencies and educational institutions in developing a plan as required by the legislature to ensure that minority and women's business enterprises are afforded the maximum opportunities to provide goods and services, and to contract with, the state.

Proposal Changes the Following Existing Rules: Adds new requirement for content of plan; and establishes two levels of detail required based on size of agency/institution.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Office of Minority and Women's Business Enterprises, 406 South Water, Olympia, WA 98504-1160, on January 25, 1994, at 1:30 p.m.

Submit Written Comments to: Office of Minority and Women's Business Enterprises, 406 South Water, Olympia, WA 98504-1160, by January 24, 1994.

Date of Intended Adoption: January 26, 1994.

December 20, 1993

James A. Medina

Director

AMENDATORY SECTION (Amending WSR 92-20-079, filed 10/6/92, effective 11/6/92)

WAC 326-40-040 Contents of state agency and educational institution's plan. (A) Each plan shall include the following:

(1) A statement of commitment from the director or agency head to maximize opportunities for certified businesses to contract for public works and to provide goods, equipment, and services;

(2) Identification of the person given the responsibility and authority to ensure implementation of the plan; and

(3) A listing of specific measures the agency or educational institution will take to increase participation of certified businesses.

(B) In addition to the requirements in (A) of this section, the plan for agencies with one hundred or more employees shall include detailed procedures for the following:

~~(1) A statement of policy that commits the agency or educational institution to achieving the annual goals and increasing opportunities for certified businesses to contract for public works and to provide goods, equipment, and services to the agency or educational institution in compliance with chapter 39.19 RCW;~~

~~(2) Identification of the position and other duties of the staffperson given the responsibility and authority to ensure implementation of the plan;~~

~~(3) Detailed procedures for:~~

(a) Communicating the policy and appropriate procedures to all staff;

(b) Training of staff involved in implementation;

(c) Annual forecasting of contracting, procurement, other expenditure activity, and goalsetting by class of contract;

(d) Setting individual contract goals;

(e) Monitoring and ensuring compliance of contractors and vendors;

(f) Maintenance of records regarding contract awards, purchase orders, and other expenditures as required in this chapter;

(g) Regular provision of data to the office on all expenditures as required in WAC 326-40-050;

(h) Resolving disputes and investigating complaints; and

(i) Review and revision of contracting and procurement documents, policies, and practices which hinder or create barriers to successful implementation of the plan.

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-166

PROPOSED RULES

DEPARTMENT OF REVENUE

[Filed December 21, 1993, 4:20 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-30-262 Agricultural land valuation—Interest rate—Property tax component.

Purpose: To provide county assessors with the interest rate and property tax component to be used to value agricultural land classified under chapter 84.34 RCW, for assessment year 1994.

Statutory Authority for Adoption: RCW 84.08.010 and 84.08.070.

Statute Being Implemented: RCW 84.34.065.

Summary: Rule is being amended to update interest rate and property tax component.

Reasons Supporting Proposal: RCW 84.34.065 requires the Department of Revenue to annually publish the interest rate and property tax component.

Name of Agency Personnel Responsible for Drafting: Kim Qually, 711 Capitol Way, #303, Olympia, (206) 664-0086; Implementation and Enforcement: William Rice, 6004 Capitol Boulevard, Tumwater, (206) 753-5503.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The amendments to this rule will provide county assessors with the interest rate and property tax component that are used to value land classified as farm and agricultural land under the provisions of chapter 84.34 RCW. The interest rate and property tax component must be updated and published by January 1 each year.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following reason(s): The changes to the rule are made to conform to statutory requirements for interest rate and property tax components and the department is given no discretionary latitude; and the department is not aware of any new or additional administrative responsibilities placed on a business solely as a result of this rule.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 28, 1994, at 9:30 a.m.

Submit Written Comments to: Kim Qually, Counsel, Department of Revenue, Legislation and Policy, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 28, 1994.

Date of Intended Adoption: February 11, 1994.

December 21, 1993

Linda Lethlean
Deputy Assistant Director
Property Tax

AMENDATORY SECTION (Amending WSR 93-07-067, filed 3/17/93)

WAC 458-30-262 Agricultural land valuation—Interest rate—Property tax component. For assessment year ((1993)) 1994, the interest rate and the property tax component that are to be used to value classified farm and agricultural lands are as follows:

- (1) The interest rate is ((40.26)) 9.69 percent; and
- (2) The property tax component for each county is:

| <u>((COUNTY</u> | <u>PERCENT</u> | <u>COUNTY</u> | <u>PERCENT</u> |
|---------------------|----------------|---------------------|----------------|
| <u>Adams</u> | <u>1.43</u> | <u>Lewis</u> | <u>1.30</u> |
| <u>Asotin</u> | <u>1.56</u> | <u>Lincoln</u> | <u>1.49</u> |
| <u>Benton</u> | <u>1.50</u> | <u>Mason</u> | <u>1.43</u> |
| <u>Chelan</u> | <u>1.52</u> | <u>Okanogan</u> | <u>1.45</u> |
| <u>Clallam</u> | <u>1.29</u> | <u>Pacific</u> | <u>1.49</u> |
| <u>Clark</u> | <u>1.29</u> | <u>Pend Oreille</u> | <u>1.09</u> |
| <u>Columbia</u> | <u>1.33</u> | <u>Pierce</u> | <u>1.61</u> |
| <u>Cowlitz</u> | <u>1.19</u> | <u>San Juan</u> | <u>.93</u> |
| <u>Douglas</u> | <u>1.47</u> | <u>Skagit</u> | <u>1.16</u> |
| <u>Ferry</u> | <u>1.12</u> | <u>Skamania</u> | <u>1.05</u> |
| <u>Franklin</u> | <u>1.62</u> | <u>Snohomish</u> | <u>1.25</u> |
| <u>Garfield</u> | <u>1.47</u> | <u>Spokane</u> | <u>1.64</u> |
| <u>Grant</u> | <u>1.43</u> | <u>Stevens</u> | <u>1.21</u> |
| <u>Grays Harbor</u> | <u>1.40</u> | <u>Thurston</u> | <u>1.54</u> |
| <u>Island</u> | <u>0.91</u> | <u>Wahkiakum</u> | <u>1.13</u> |
| <u>Jefferson</u> | <u>1.11</u> | <u>Walla Walla</u> | <u>1.42</u> |
| <u>King</u> | <u>1.26</u> | <u>Whateom</u> | <u>1.44</u> |
| <u>Kitsap</u> | <u>1.23</u> | <u>Whitman</u> | <u>1.55</u> |
| <u>Kittitas</u> | <u>1.31</u> | <u>Yakima</u> | <u>1.41</u> |
| <u>Klickitat</u> | <u>1.27</u>) | | |

| <u>COUNTY</u> | <u>PERCENT</u> | <u>COUNTY</u> | <u>PERCENT</u> |
|-----------------|----------------|---------------------|----------------|
| <u>Adams</u> | <u>1.46</u> | <u>Lewis</u> | <u>1.36</u> |
| <u>Asotin</u> | <u>1.68</u> | <u>Lincoln</u> | <u>1.54</u> |
| <u>Benton</u> | <u>1.53</u> | <u>Mason</u> | <u>1.52</u> |
| <u>Chelan</u> | <u>1.49</u> | <u>Okanogan</u> | <u>1.47</u> |
| <u>Clallam</u> | <u>1.31</u> | <u>Pacific</u> | <u>1.49</u> |
| <u>Clark</u> | <u>1.30</u> | <u>Pend Oreille</u> | <u>1.16</u> |
| <u>Columbia</u> | <u>1.41</u> | <u>Pierce</u> | <u>1.62</u> |
| <u>Cowlitz</u> | <u>1.22</u> | <u>San Juan</u> | <u>0.92</u> |
| <u>Douglas</u> | <u>1.48</u> | <u>Skagit</u> | <u>1.17</u> |
| <u>Ferry</u> | <u>1.11</u> | <u>Skamania</u> | <u>1.08</u> |
| <u>Franklin</u> | <u>1.62</u> | <u>Snohomish</u> | <u>1.35</u> |

| | | | |
|---------------------|-------------|--------------------|-------------|
| <u>Garfield</u> | <u>1.44</u> | <u>Spokane</u> | <u>1.77</u> |
| <u>Grant</u> | <u>1.46</u> | <u>Stevens</u> | <u>1.21</u> |
| <u>Grays Harbor</u> | <u>1.53</u> | <u>Thurston</u> | <u>1.51</u> |
| <u>Island</u> | <u>0.90</u> | <u>Wahkiakum</u> | <u>1.18</u> |
| <u>Jefferson</u> | <u>1.24</u> | <u>Walla Walla</u> | <u>1.49</u> |
| <u>King</u> | <u>1.23</u> | <u>Whatcom</u> | <u>1.40</u> |
| <u>Kitsap</u> | <u>1.34</u> | <u>Whitman</u> | <u>1.64</u> |
| <u>Kittitas</u> | <u>1.32</u> | <u>Yakima</u> | <u>1.49</u> |
| <u>Klickitat</u> | <u>1.28</u> | | |

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

WSR 94-01-167
PROPOSED RULES
DEPARTMENT OF REVENUE
[Filed December 21, 1993, 4:22 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-18-220 Refunds—Rate of interest.

Purpose: To provide the county assessors with the current interest rate that is used in refunding property taxes. Statutory Authority for Adoption: RCW 84.08.010 and 84.08.070.

Statute Being Implemented: RCW 84.69.100.

Summary: The rates of interest to be applied on refunds of property taxes is itemized according to the year the taxes were paid.

Name of Agency Personnel Responsible for Drafting: Kim Qually, 711 Capitol Way, #303, Olympia, (206) 664-0086; Implementation and Enforcement: William Rice, 6004 Capitol Boulevard, Tumwater, (206) 753-5503.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule sets the rate of interest that is applied when property taxes are refunded. The amendatory language updates the rule and specifies the rate of interest for the coming year.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following reason(s): The changes to the rule are made to conform to statutory requirements for interest rate on certain property tax refunds and the department is given no discretionary latitude; and the department is not aware of any new or additional administrative responsibilities placed on a business solely as a result of this rule.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 28, 1994, at 9:30 a.m.

Submit Written Comments to: Kim Qually, Counsel, Department of Revenue, Legislation and Policy, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 28, 1994.

Date of Intended Adoption: February 11, 1994.
 December 21, 1993
 Linda Lethlean
 Deputy Assistant Director
 Property Tax

Reasons Supporting Proposal: Recent court decisions and other research have caused the department to amend the formula used to compute the personal property ratio.

Name of Agency Personnel Responsible for Drafting: Kim Qually, 711 Capitol Way, #303, Olympia, (206) 664-0086; Implementation and Enforcement: William Rice, 6004 Capitol Boulevard, Tumwater, (206) 753-5503.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The amendments to this rule will provide county assessors with a revised method for computing the personal property ratio. The revised method simplifies the calculation.

Proposal Changes the Following Existing Rules: The revised rule changes and simplifies the method used to calculate the personal property ratio. It also updates the tables that provide examples for computing the personal property ratio.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following reason(s): No economic impact. This rule has no identifiable administrative costs to small business; and negligible impact. The rule provides direction and information for county assessors. This rule does not require any action on the part of small business.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on January 28, 1994, at 9:30 a.m.

Submit Written Comments to: Kim Qually, Counsel, Department of Revenue, Legislation and Policy, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by January 28, 1994.

Date of Intended Adoption: February 11, 1994.
 December 21, 1993
 Linda Lethlean
 Deputy Assistant Director
 Property Tax

AMENDATORY SECTION (Amending Order PT 93-4 [WSR 93-06-096], filed 3/3/93)

WAC 458-18-220 Refunds—Rate of interest. The following rates of interest shall apply on refunds of taxes made pursuant to RCW 84.69.010 through 84.69.090 in accordance with RCW 84.69.100. The following rates shall also apply to judgments entered in favor of the plaintiff pursuant to RCW 84.68.030. The interest rate is derived from the equivalent coupon issue yield of the average bill rate for twenty-six week treasury bills as determined at the first bill market auction conducted after June 30th of the calendar year preceding the date the taxes were paid or the claim for refund is filed, whichever is later. The rate thus determined shall be applied to the amount of the judgment or the amount of the refund, until paid:

| Year tax paid (chapter 84.68 RCW); Year tax paid or claim filed (whichever is later) (chapter 84.69 RCW) | Auction Year | Rate |
|--|--------------|--------|
| 1985 | 1984 | 11.27% |
| 1986 | 1985 | 7.36% |
| 1987 | 1986 | 6.11% |
| 1988 | 1987 | 5.95% |
| 1989 | 1988 | 7.04% |
| 1990 | 1989 | 8.05% |
| 1991 | 1990 | 8.01% |
| 1992 | 1991 | 5.98% |
| 1993 | 1992 | 3.42% |
| 1994 | 1993 | 3.19% |

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

WSR 94-01-168
PROPOSED RULES
DEPARTMENT OF REVENUE
 [Filed December 21, 1993, 4:24 p.m.]

Original Notice.

Title of Rule: Amending WAC 458-53-160 Indicated personal property ratio—Computation.

Purpose: To provide the county assessors with a revised method for computing the personal property ratio.

Statutory Authority for Adoption: RCW 84.08.010 and 84.08.070.

Statute Being Implemented: RCW 84.48.075.

Summary: Rule is being amended to correct the computation used to calculate the personal property ratio that is, in turn, used to calculate state levy.

AMENDATORY SECTION (Amending Order PT 87-5, filed 5/29/87)

WAC 458-53-160 Indicated personal property ratio—Computation. (1) For each personal property assessed value stratum, excluding properties identified in WAC 458-53-110(7) and 458-53-165, ~~((and))~~ an average sample assessed value, and an average sample true and fair value will be determined from the results of selected audit studies. ~~((These))~~ The average ((stratum)) sample assessed value((s will be multiplied by the corresponding number of personal property accounts in each stratum to derive a stratum estimated total assessed value and a stratum estimated total true and fair value. These estimated stratum total estimated assessed and true and fair values will be added to provide a county total estimated assessed value and a county total estimated true and fair value)) for each stratum divided

by the average sample true and fair value determines the ratio for each assessed value stratum.

(2) ((To the actual personal property assessed value and ratio related true and fair value totals for a county (subsection (1) of this section) are added assessed values of those properties identified in WAC 458-53-110(7) and 458-53-165 and related true and fair values calculated by the ratio relationships determined for those same properties)) The actual total assessed value of the county for each stratum divided by the ratio for each assessed value stratum, as determined by using the calculation set forth in subsection (1) of this section, determines the indicated true and fair value of each stratum for the county.

(3) ((The sum of the total personal property assessed and true and fair values as determined by subsections (1) and (2) of this section shall be the basis for the county's indicated personal property ratio. The sum total of assessed values

will be divided by the sum total of true and fair values to derive the ratio. Values from each county's Assessor's Certificate of Assessment Rolls to County Board of Equalization will be used in the computation of each county's indicated personal property ratio except as provided in WAC 458-53-150(6)) The actual county total assessed values of properties identified in WAC 458-53-110(7) and 458-53-165 are added as separate categories to the assessed value stratum. Ratios determined for these properties are applied against the total assessed values to determine the related total true and fair values.

(4) ((The following illustration, using simulated values and ratios, indicates simplified ratio study computation procedures for personal property)) The sum of the actual total county assessed values will be divided by the sum of the related true and fair values to determine the overall county indicated personal property ratio.

((Step 1 - Determination of Average Sample Values

| | (1) | (2) | (3) | (4) | (5) |
|-----------------|-------------------|---------------------------------|---|-------------------------------|---|
| | | Total Assessed Value of Samples | Average Assessed Value of Samples (Col. 2 ÷ Col. 1) | Total Market Value of Samples | Average Market Value of Samples (Col. 4 ÷ Col. 1) |
| Stratum | Number of Samples | Assessed Value of Samples | Average Assessed Value of Samples (Col. 2 ÷ Col. 1) | Total Market Value of Samples | Average Market Value of Samples (Col. 4 ÷ Col. 1) |
| \$ 0 - 9,999 | 15 | \$ 75,000 | \$ 5,000 | \$100,000 | \$ 6,667 |
| 10,000 - 39,999 | 20 | 400,000 | 20,000 | 500,000 | 25,000 |
| Over 39,999 | 10 | 500,000 | 50,000 | 750,000 | 75,000 |

Step 2 - Weighting of Average Sample Values

| | (1) | (2) | (3) | (4) | (5) | (6) |
|-----------------|-------------------------|-------------------------------|--|-----------------------------|--|-------------------------|
| | Total Property Listings | Average Sample Assessed Value | Total Estimated Assessed Value (Col. 2 x Col. 1) | Average Sample Market Value | Total Estimated Market Value (Col. 4 x Col. 1) | Ratio (Col. 3 ÷ Col. 5) |
| Stratum | Total Property Listings | Average Sample Assessed Value | Total Estimated Assessed Value (Col. 2 x Col. 1) | Average Sample Market Value | Total Estimated Market Value (Col. 4 x Col. 1) | Ratio (Col. 3 ÷ Col. 5) |
| \$ 0 - 9,999 | 125 | \$ 5,000 | \$ 625,000 | \$ 6,667 | \$ 833,375 | .7500 |
| 10,000 - 39,999 | 216 | 20,000 | 4,320,000 | 25,000 | 5,400,000 | .8000 |
| Over 39,999 | 79 | 50,000 | 3,950,000 | 75,000 | 5,925,000 | .6667 |
| Outriders | 2 | | 1,000,000 | | 1,366,775 | .7316 |
| | | | \$9,895,000 | | \$13,525,150 | 3.16 |

Sample study weighted ratio 73.16%

Step 3
Application of Sample Weighted Relationship to Actual Assessed Value.

| | (1) | (2) | (3) |
|--|--------------|----------------------------|--|
| Actual County Assessed Value | | Determined | County Market Value Related |
| Personal Property (From Assessor's Certificate) | | Assessment to Market Ratio | to Actual Assessed Value (Col. 1 ÷ Col. 2) |
| | \$ 9,100,000 | .7316 | \$ 12,438,491 |
| Add | | (from Step 2) | |
| Other (WAC 458-53-110(7) or 458-53-165 properties) | 100,000 | 1,000 | 100,000 |
| Totals | \$ 9,200,000 | | \$ 12,538,491 = .7337 |
| County Indicated Personal Property Ratio | | | 73.37% |

(5) Individual assessed or true and fair personal property values, classified as "outliers" according to WAC 458-53-150(8), will be used in personal property ratio computation in a manner similar to that used for real property outliers in real property ratio computation.)

(5) The following illustration, using simulated values and ratios, indicates the ratio computation procedures for personal property.

STEP 1 - STRATUM AVERAGE VALUE AND RATIO COMPUTATIONS

| | (1) | (2) | (3) | (4) |
|-----------------|--------------------------|--|--|--|
| <u>Stratum</u> | <u>Number of Samples</u> | <u>Average Assessed Value of Samples</u> | <u>Average Market Value of Samples</u> | <u>Stratum Ratio (Col. 2 ÷ Col. 3)</u> |
| \$0 - 9,999 | 20 | \$6,000 | \$7,800 | .769 |
| 10,000 - 39,999 | 20 | 20,000 | 38,000 | .526 |
| Over 40,000 | 20 | 80,000 | 90,000 | .889 |

STEP 2 - APPLICATION OF STRATUM RATIOS TO ACTUAL COUNTY ASSESSED VALUES

| | (1) | (2) | (3) |
|---|--|--------------|--|
| <u>Stratum</u> | <u>Actual County Personal Property Assessed Values</u> | <u>Ratio</u> | <u>County Market Value Related to Actual Assessed Value (Col 1 ÷ Col. 2)</u> |
| \$0 - 9,999 | \$12,500,000 | .769 | \$ 16,254,876 |
| 10,000 - 39,999 | 33,000,000 | .526 | 62,737,643 |
| Over 40,000 | 90,000,000 | .889 | 101,237,345 |
| <u>WAC 458-53-110(7) or 458-53-165 Properties</u> | <u>0</u> | | <u>0</u> |
| Totals | \$135,500,00 | ÷ | \$180,229,864 = .752 |
| County Indicated Personal Property Ratio | | | 75.2% |

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-169
PROPOSED RULES
DEPARTMENT OF REVENUE
 [Filed December 21, 1993, 4:26 p.m.]

Original Notice.

Title of Rule: Amend and add sections to chapter 458-16 WAC, Property tax—Exemptions; amending WAC 458-16-100 Property tax exemptions, generally, rules of construction, 458-16-110 Applications—Who must file, filing requirement, application forms, what covered, filing fee, financial statement, evidence of timely filing, 458-16-111 Filing fees, penalties and refunds, 458-16-130 Real property sold or acquired by property owner deemed to be exempt, 458-16-150 Cessation of use—Taxes collectible, 458-16-180 Cemeteries, 458-16-190 Churches, parsonages and convents, 458-16-200 Grounds upon which a church or parsonage shall be built, 458-16-210 Nonprofit, nonsectarian organizations, 458-16-220 Church camps, 458-16-230 Character building organizations, 458-16-240 Veterans organizations, 458-16-260 Day care centers, libraries, orphanages, homes for the aged, homes for sick or infirm, hospitals, 458-16-270 Schools and colleges, 458-16-280 Art, scientific and historical collections—Fire companies—Humane societies, 458-16-282 Musical, dance, artistic, dramatic and literary associations, 458-16-290 Nature conservancy lands, 458-16-300 Public meeting facilities, and 458-16-310 Community celebration facilities; and new sections WAC 458-16-165 Conditions under which nonprofit organizations, associations, or corporations may obtain a property tax exemption, 458-16-245 Student loan agencies, 458-16-284 Fire companies, 458-16-286 Humane societies, 458-16-320 Sheltered workshops for the handicapped, and 458-16-330 Emergency or transitional housing.

Purpose: To clarify language and to provide information to nonprofit organizations, associations, and corporations seeking a property tax exemption. To implement changes that resulted from 1993 legislative session.

Statutory Authority for Adoption: RCW 84.08.010 and 84.08.070.

Statute Being Implemented: Chapter 84.36 RCW.

Summary: These rules implement the statutes that allow nonprofit organizations, associations, and corporations to exempt real and personal property from property taxation.

Name of Agency Personnel Responsible for Drafting: Kim Qually, 711 Capitol Way, #303, Olympia, (206) 664-0086; Implementation and Enforcement: William Rice, 6004 Capitol Boulevard, Tumwater, (206) 753-5503.

Name of Proponent: Department of Revenue, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: These rules implement the statutes that allow nonprofit organizations, associations, and corporations to exempt real and personal property from property taxation.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The Department of Revenue has reviewed administrative provisions contained in this rule in order to lessen the economic impact on small businesses. A small business economic impact statement is not required for the following

reason(s): The changes to this rule will not have any economic impact on industry; and the department is not aware of any administrative responsibilities placed on business solely as a result of the changes made to this rule.

Hearing Location: Evergreen Plaza Building, 2nd Floor Conference Room, 711 Capitol Way South, Olympia, WA, on February 2, 1994, at 9:30 a.m.

Submit Written Comments to: Kim Qually, Counsel, Department of Revenue, Legislation and Policy, P.O. Box 47467, Olympia, WA 98504-7467, FAX (206) 664-0972, by February 2, 1994.

Date of Intended Adoption: February 11, 1994.

December 21, 1993

Linda Lethlean

Deputy Assistant Director

Property Tax

AMENDATORY SECTION (Amending Order PT 83-5, filed 9/14/83)

WAC 458-16-100 Property tax exemptions, generally, rules of construction. ~~((All property having situs in Washington is subject to assessment and taxation, except property expressly exempted from taxation by law (RCW 84.36.005). In interpreting statutes which exempt property from taxation, the following principles shall govern:~~

(1) ~~Statutory language shall be construed strictly, though fairly, and in keeping with the ordinary meaning of the language employed (Group Health Co-op of Puget Sound, Inc. v. Wash. State Tax Comm'n., 72 Wn.2d 424, (1967))—in favor of the public and the right to tax. Thurston County v. Sisters of Charity of House of Providence, 14 Wash. 264 (1896). Taxation is the rule; exemption is the exception (Spokane County v. Spokane, 169 Wash. 355 (1932)).~~

(2) ~~If a justifiable doubt exists as to the meaning of an exemption statute, that doubt shall be construed in favor of the power to tax. Spokane County v. Spokane, 169 Wash. 355 (1932).~~

(3) ~~If an exemption from taxation is found to exist, that exemption shall not be enlarged by construction, since the state legislature has presumably granted in express terms all that it intended to grant. Norwegian Lutheran Church v. Wooster, 176 Wash. 581 (1934).~~

(4) ~~Applicants claiming initial and continuing property tax exemption will make this property available for visitation, investigation or examination at all times and upon request provide to the employee of the department of revenue all records, documents or facts required so that the department may determine the exempt or taxable status of the property.~~

~~Failure to fully cooperate with the examining employee of the department may result in a taxable determination for that year's taxes.~~

(5) ~~The burden rests upon the one claiming exemption to show clearly that the property is within the exempting statute (Pacific Northwest Conference of the Free Methodist Church of North America v. Barlow, 77 Wn.2d 487). The burden of proof is upon the one alleging the exemption. (In Re All State Construction Co., Inc., 70 Wn.2d 657.) When implementing the foregoing, the department of revenue shall adhere to and operate within the bounds of the overriding principle that its duty is to effectuate to the fullest extent the~~

legislative intent (*Thurston County v. Sisters of Charity of House of Providence*, 14 Wash. 264 (1896)).

The principles herein enumerated are set forth as guidelines for assisting in statutory construction, and shall not be interpreted as a license for unjustifiably denying any exemption, and thereby forcing the organizations, corporations, or associations to establish their exempt status through court action.)) (1) **Introduction.** This section explains how statutes exempting property from taxation should be read and interpreted.

(2) **General rules of construction.** All property located in Washington is subject to assessment and taxation, except property expressly exempted from taxation by law. The following principles shall govern the construction of statutes that exempt property from taxation:

(a) There is no need to construe a statute when its language is plain.

(b) The burden of proving entitlement to a property tax exemption rests upon the taxpayer claiming exemption.

(c) Statutes exempting property from taxation shall be strictly construed, though fairly and in keeping with the ordinary meaning of the language employed.

(d) If there is any doubt regarding the exact meaning of a statute exempting property from taxation, the statute shall be construed in favor of the power to tax and against the person claiming the exemption because taxation is the rule and exemption is the exception.

(e) If the legislature has created an exemption, the exemption must not be enlarged by construction since it is reasonable to presume that the legislature has granted in express terms all that it intended to grant. An exemption must be limited to the very terms of the statute enacted; if not so limited, the exemption would be enlarged beyond what the legislature intended to exempt.

(f) Property shall be exempt from taxation only when the legislature has created an exemption by clear and explicit language.

(3) **General requirements.** Applicants seeking an initial or continuing property tax exemption shall make the subject property available to the department of revenue at reasonable times for physical inspection, investigation, or examination. Applicants shall also provide to the department of revenue, upon request, all records, documents, or facts necessary for the department to determine the exempt or taxable status of the property. Failure to fully cooperate with the department may result in a determination that the property is taxable for the current year.

AMENDATORY SECTION (Amending Order PT 85-1, filed 2/15/85)

WAC 458-16-110 Applications—Who must file, ((filing requirement, application forms, what covered, filing fee, financial statement, evidence of timely filing)) initial applications, renewal applications, annual certifications. ((All foreign national governments, cemeteries, nongovernmental nonprofit corporations, organizations, and associations, and soil and water conservation districts seeking exemption from ad valorem property taxation under the provisions of chapter 84.36 RCW shall make application for exemption with the State of Washington Department of

Revenue General Administration Building, Olympia, WA 98504.

(1) Initial applications for exemption shall be filed on or before March 31 or within sixty days of the date of acquisition or conversion to an exempt use. Renewal applications and annual recertifications shall be filed on or before March 31.

Initial and renewal applications and recertifications received after the due date are subject to late filing penalties. The department of revenue shall allow a reasonable extension of time for filing upon written request filed on or before the required filing date and for good cause shown.

(a) ~~Initial applications: The original application an organization files or an application by such organization for additional property not currently claimed for exemption.— Fee due.~~

(b) ~~Renewal application: The claim for continued exemption filed every fourth year after the latest initial application.— Fee due.~~

(c) ~~Recertifications: A certification on department of revenue forms, that the use and exempt status of the real and personal property claimed by the exempt organization has not changed.— No fee due.~~

All initial and renewal applications and recertifications for exemption shall be filed on forms prescribed by the department of revenue and shall be signed by an authorized agent. On or before January 1 of each year the department shall mail the forms to each legal owner that was granted an exemption for the previous year. Applications shall be available from the department of revenue or from the county assessor's office. No property shall be granted an exempt status without the owner first filing for exemption, for the specific property for which exemption is sought. The filing shall be due regardless of whether the legal owner has received forms for exemption from the department.

To retain exempt status, applicants except nonprofit cemeteries must file a renewal application on or before March 31 of every fourth year following the date of the initial application. When an applicant previously granted exemption acquires or otherwise converts real property to exempt status, such applicant shall file an initial application within sixty days following the conversion of such real property to exempt status without penalty. Failure to file an initial application within sixty days of conversion of such real property to exempt status shall result in a late filing penalty. See WAC 458-16-111 for computation of penalty.

In the years renewal applications are not due, an applicant previously granted exemption shall annually file a recertification: *Provided*, That when the annual filing has not been made by March 31, the ten dollars per month filing penalty will apply to the date the application is completed. Failure to file an annual claim will result in a taxable determination for current year taxes.

(2) The property covered by each application for property tax exemption shall include all the real and personal property which is contiguous, and which is used as a homogeneous unit.

(a) The term "homogeneous unit" means property under the control of a single applicant, the operation and use of which is integrated with and directly related to the activity of the entity seeking exemption.

(b) The term "contiguous" means all property which is geographically one unit without separation except for separations caused by public streets and roads.

Examples:

A church owns a single piece of property upon which is constructed a church, parsonage, and elementary school. All three buildings are owned by the church and constitute a homogeneous unit in that they are integrated with and directly related to the activities of the church. This requires only one application because the property is geographically contiguous and is a homogeneous unit.

O corporation, the supervising entity of a nonprofit recognized religious denomination, holds title to five separate units in a county. The operation of each church unit is integrated with the activity of and supervised by O. To properly apply for an exemption for these five church units O would be required to file a separate application for each church unit as they are geographically separate.

No application shall be acted upon until complete. To be complete an applicant must have on file with the department of revenue copies of their articles of incorporation and all amendments and a copy of their current bylaws. All initial applications must be accompanied by an accurate map identifying by dimension the use or proposed use of all areas including building sites, parking, landscaping, and vacant areas from which an accurate determination for exemption or a segregation for partial exemption can be made. Legal descriptions and county parcel numbers must also be provided. The department of revenue will not act on any application until all fees and penalties have been submitted.

Organizations claiming exemption under RCW 84.36.030 through 84.36.480 are required to provide financial information to the department of revenue upon request.

Property leased may be claimed by the lessor or lessee, provided the lessee has permission of the lessor to claim exemption. Property claimed by the lessee must be specifically identified by owner and location of the property. Claims for leased property must be accompanied by a complete copy of the lease agreement.

The department of revenue shall have access to all books and records necessary to determine if the requirements for exemption have been complied with. The department of revenue shall have the authority to request additional information relevant to the claim for exemption as the department deems necessary. (1) **Introduction.** This section explains the procedures property owners must follow to apply for and to renew all real and personal property tax exemptions provided under chapter 84.36 RCW for which the taxpayer must apply to receive.

(2) **Application required.** All foreign national governments, cemeteries, nongovernmental nonprofit corporations, organizations, and associations, and soil and water conservation districts seeking exemption from ad valorem property taxation under the provisions of chapter 84.36 RCW shall apply for exemption with the department of revenue. Unless otherwise exempted by law, no real or personal property shall be exempt from taxation unless an application has first been filed and exemption has been granted therefor.

(3) **Initial applications.** In general, initial applications for exemption of real or personal property shall be filed with the department of revenue on or before March 31. However, when real property that may qualify for exemption is

acquired or when real property is converted to a use that may qualify the property for exemption, in order for the property to be granted exemption, an initial application must be filed with respect to the property within sixty days following acquisition or conversion; if this application is not received within this period, the penalties set forth in WAC 458-16-111 will be applied. All initial applications shall comply with the following:

(a) The application shall be made on a form prescribed by the department and signed by an authorized agent of the applicant.

(b) To the extent exemption is sought for real property, each application may include all property that is contiguous and part of a homogeneous unit. Except with respect to applications for exemption of church property involving a noncontiguous parsonage or convent, a separate application must be submitted for real property that is not both contiguous and part of a homogeneous unit.

(i) Contiguous property means real property adjoining other real property, all of which is under the control of a single applicant even though the properties may be separated by public roads, railroads, rights of way or waterways.

(ii) A homogeneous unit means one where the property is under the control of a single applicant and the operation and use of the property is integrated with and directly related to the activity of the applicant.

(c) The application shall include copies of the articles of incorporation or association, or constitution or other establishing document, together with all current amendments thereto, and also include a copy of the bylaws of the applicant. The application shall also include a copy of any current letter from the Internal Revenue Service that grants the applicant exemption from payment of federal income taxes. If copies of these documents have previously been filed with the department and are still current, the application need not include them.

(d) The application shall include an accurate map identifying by dimension the use or proposed use of all real property including buildings, building sites, parking areas, landscaping, vacant areas, and, if requested by the department, floor plans of multistoried buildings from which a determination exempting the total area can be made or from which a segregation for partial exemption can be made.

(e) The application shall accurately describe the real and personal property for which exemption is sought. The application shall include a legal description of all real property and provide the county tax parcel number for each parcel of real property. A copy of the current deed relative to the real property shall also be included with the application.

(f) The application shall indicate whether any of the real or personal property that is the subject of the application is leased or loaned from or to others, and if so, include a copy of the lease agreement and further indicate the following:

(i) Which property is leased or loaned;

(ii) The amount of the rent or other consideration;

(iii) To whom or from whom the property is loaned or leased;

(iv) What use is being made of the property; and

(v) What is the monthly amount of operation and maintenance costs.

(4) **Renewal applications.** In order to requalify for exemption, each applicant (except nonprofit cemeteries) shall submit a renewal application not later than March 31 of each fourth year following the date of the most recent initial application. The renewal application shall be made on forms prescribed by the department and signed by an authorized agent of the applicant, and shall include information regarding any change in use or in exempt status or any change in the items covered in subsection (3)(b) through (f) of this section, since the filing of the initial application or since the filing of the previous renewal application.

(5) **Annual certifications - affidavit.** In order to retain the exemption from property taxation, each applicant (except nonprofit cemeteries) that has previously been granted exemption shall annually file an affidavit with the department certifying that the use and exempt status of the real and personal property claimed as exempt has not changed. These affidavits shall be on forms prescribed by the department and shall be in accordance with the following:

(a) The department shall annually on or before January 1 mail affidavit forms or, when appropriate, renewal forms to owners of record of exempt property at their last known address.

(b) The affidavit form or renewal form shall be filed with the department no later than March 31 and signed by an authorized agent of the applicant. The filing shall be due by March 31 regardless of whether the form was received by the applicant from the department.

(c) If the applicant fails to file the affidavit or renewal form within a reasonable time after the due date, and after the department has mailed an additional notice to the applicant at the applicant's last known address, the department may remove the exemption from the property and upon removal shall so notify the assessor in the county where the property is located.

(6) **Failure to file renewal application or annual certification.** When the exemption has been removed as a result of an applicant's failure to file a renewal application or an annual certification, if the applicant wishes to requalify for exemption:

(a) Within the same assessment year, the applicant must complete and file a renewal application or an annual certification together with any required late filing penalties; or

(b) Within a subsequent assessment year, the applicant must file an initial application together with the initial filing fee and any required late filing penalties.

(7) **Filing fees and penalties.** All initial applications, renewal applications or annual certifications are subject to the filing fees and penalties set forth in WAC 458-16-111.

(8) **Effective date of exemption.** Applications that are approved shall be effective for property taxes due and payable the year following the year of application. Applications for previous years, up to a maximum of three years from the date of payment of the tax, may be accepted if the applicant provides proof acceptable to the department that the property qualified for exemption in the assessment year prior to the tax year for which exemption is claimed and the initial filing fee and late filing penalties are paid.

(9) **Where to obtain application forms.** Applications for exemption may be obtained from any county assessor's office or from the department of revenue.

AMENDATORY SECTION (Amending Order PT 88-8, filed 6/9/88)

WAC 458-16-111 Filing fees, penalties and refunds. ((Filing fee:

~~The filing fee of \$35.00 shall be collected before the department of revenue considers either an initial or renewal application (as defined in WAC 458-16-110) for property tax exemption.~~

~~Late penalties:~~

~~A late filing penalty of \$10.00 per month or portion of a month shall be collected before the department of revenue will consider any claim for property tax exemption when the completed claim is not filed by the due date. Late filing penalties are computed from the date the filing should have been made to the date the claim was received. The department will allow a two week period in writing when notifying applicants of late filing penalties needed. Applicants not completing the application in the period allowed, must be assessed late filing penalties to the date all fees are received. Applications for previous years' taxes may be accepted if the applicant provides proof the property was used for exempt purposes in the assessment year prior to the tax year and the initial filing fees and late filing penalties are submitted for the period the application for exemption should have been filed to the date the application is completed.~~

~~Refunds:~~

~~Fees and penalties will be refunded if:~~

~~(1) A duplicate claim for the same property is filed by the same legal owner for the same year.~~

~~(2) A claim is improperly received by the department of revenue and it has no authority to consider it. (Example: Claim filed by government entity.)~~

~~(3) A request for withdrawal of the application for exemption is received in writing prior to the department issuing a determination. The request shall include a signed statement clearly withdrawing the claim for exemption. The person requesting the withdrawal must be the same person who signed the application or another person authorized by the legal owner.~~

~~The department of revenue has no authority to refund fees or penalties after a determination is issued.) (1)~~

Introduction. This section explains the fee that must accompany an initial application or renewal application for property tax exemption made under the provisions of chapter 84.36 RCW. This section also describes the late filing penalty that is assessed whenever an initial application, renewal application, or annual certification is received after the filing deadline.

(2) **Filing fee.** A filing fee of thirty-five dollars is due with each initial application and each renewal application, as these applications are described in WAC 458-16-110. There is no fee for annual certifications.

(3) **Late filing penalty.** A late filing penalty of ten dollars is due for every month or portion thereof when initial applications, renewal applications or annual certifications are filed after the due date. (See WAC 458-16-110 for the specific deadlines for each type of application or certification.) Late filing penalties are calculated from the date the filing was due to the date of the postmark.

(4) **Full payment required before application or certification will be considered.** The department will not

consider an application or a certification for property tax exemption until all filing fees and penalties have been paid. Upon receipt of an application or certification accompanied by less than the full amount due, the department shall promptly notify the applicant in writing of the amount due.

(5) Refunds. No filing fees or late filing penalties will be refunded after a determination on the application or certification is issued by the department. However, filing fees and late filing penalties will be refunded under the following circumstances:

(a) When a duplicate application or certification for exemption for the same property is filed for the same year;

(b) When an application for exemption is received by the department and the department has no authority to consider the application. For example, an application filed by a governmental entity is not one which the department may consider; or

(c) When a written request for withdrawal of the application for exemption is received before a determination has been issued by the department. The request for withdrawal must be signed by an authorized agent of the applicant.

AMENDATORY SECTION (Amending Order PT 88-8, filed 6/9/88)

~~WAC 458-16-130 ((Real property sold or acquired by property owner deemed to be exempt.)) Change in taxable status of nongovernmental real property. ((As required by RCW 84.36.855, real property which is transferred or converted by an exempt body to taxable ownership or use or which is no longer exempt for any reason shall be subject to a prorata portion of taxes allocable to that property for the remaining portion of that year, after the date of the execution of the instrument of sale, contract or exchange, or the conversion to a taxable use or the date the property is no longer exempt as provided in RCW 84.40.350 through 84.40.390. Real property exempted pursuant to RCW 84.36.030, 84.36.037, 84.36.040, 84.36.050 and 84.36.060 is also subject to the provisions of RCW 84.36.810.~~

~~When any property owner determined to be, or could be, exempt under chapter 84.36 RCW acquires ownership of real property which was in other ownership as of January 1 or converts real property from a taxable to an exempt use must apply for and provide proof that under the specific RCW section and appropriate WAC, the property is entitled to exemption or continued exemption from time of transfer or conversion.~~

~~When organizations acquire or convert real property to an exempt use, the property will upon approval of the application for exemption, be entitled to exemption for the following year. Exempt property transferring from one nonprofit organization to another, will enjoy a continuing exemption upon approval, of proper application by the purchasing organization. If the taxes have been paid or if the timing of granting the exemption requires it, the department of revenue will reconvene the June session of the county board of equalization, under the provisions of RCW 84.56.400, in order to cancel the taxes and/or to institute a refund as provided in chapter 84.69 RCW.)) (1) **Introduction.** This section explains what occurs when a change in ownership or use of real property owned by a nongovern-~~

~~mental entity causes the property to either gain or lose its tax exempt status.~~

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Cessation of use" means that an owner of exempt real property has ceased to physically use the property for an exempt use. The term also refers to property that has lost its exempt status because it was transferred, loaned, or rented to an owner that is not entitled to an exemption.

(b) "Real property" means real property owned by a nongovernmental organization, association, corporation, or private individual.

(c) "Rollback" refers to the provisions of RCW 84.36.810 that make previously exempt property subject to back taxes and interest because of a change in ownership or a cessation of an exempt use unless the subject property has been exempt for at least ten years.

(3) Exempt to taxable status. A change in the ownership or use of real property that makes the property no longer exempt from taxation shall cause the real property to be assessed and taxed as of the date of the cessation of use or change of ownership, as provided in RCW 84.40.350 through 84.40.390. If the owner or new owner begins to use the property for an exempt use within one hundred twenty days of the date the previous exempt use ceased, the property will not be placed back on the tax assessment roll as of the date of cessation. However, if an agreement establishing an alternate exempt use has not been signed within one hundred twenty days, the property will be placed back on the assessment roll and, if appropriate, the rollback provisions of RCW 84.36.810 will be applied as of the date the cessation of use occurred. All real property that is no longer exempt from taxation shall be subject to a pro rata share of taxes allocable for the remaining portion of the year in which the cessation of use or change in ownership occurred. If only a portion of the property no longer qualifies for tax exemption, only that portion shall be assessed and taxed.

(a) Real property changes from exempt to taxable status whenever the property:

(i) Is transferred through either sale, exchange, gift, or contract from tax exempt ownership to taxable ownership;

(ii) Is transferred through either sale, exchange, gift, or contract from tax exempt ownership to another nonprofit organization, association, or corporation that has not applied for a property tax exemption;

(iii) Is converted to a taxable use; or

(iv) When it otherwise loses its exempt status.

(b) Examples.

(i) Example 1. For at least ten years, nonprofit "A" operates a rehabilitative social service facility and receives a property tax exemption for this property. Nonprofit "A" transfers this property to nonprofit "B," who continues to receive the exemption for this property. Nonprofit "B" subsequently moves the exempt activity to another location and the exempt property is not used or occupied by nonprofit "B" for an exempt purpose after the move. One hundred days after the exempt activity ceased, nonprofit "B" sells the exempt property to XYZ Printing Company, a profit seeking business. This property became taxable at the time nonprofit "B" vacated the premises. The provisions of RCW 84.34.810 will be applied as of the date of the move.

(ii) Example 2. A nonprofit hospital owns and occupies a building for which it receives a property tax exemption. The hospital ceases to use the property on January 1, 1992, and does not intend to use or occupy the exempt property any longer. It intends to rent this property to another nonprofit organization and actively advertises and looks for such a tenant. On April 15, 1992, a nonprofit nursing home signs a lease agreement with the hospital to use and occupy the property for an exempt purpose effective June 1, 1992. In this instance, the property will not be subject to taxation for the interim period.

(c) The taxes owing when property changes from exempt to taxable ownership shall be prorated as of:

(i) The date the instrument of sale, exchange, gift, or contract is executed; or

(ii) The date the property is converted to a taxable use.

(d) When the status of real property changes from exempt to taxable, the rollback provisions of RCW 84.36.810 apply. Taxes are collected by the county treasurer in accordance with that statute if this property was previously exempt from ad valorem taxation under any of the following provisions:

(i) It was owned and used by:

(A) A nonprofit organization, association or corporation for character building, benevolent, protective, or rehabilitative social services (RCW 84.36.030);

(B) A nonprofit church, denomination, group of churches, or an organization or association, the membership of which is comprised solely of churches and/or their qualified representatives, as a church camp (RCW 84.36.030);

(C) An organization or society of veterans of any war of the United States (RCW 84.36.030);

(D) Corporations formed under an act of congress to furnish volunteer aid to members of the armed forces of the United States (RCW 84.36.030);

(E) Corporations formed under an act of congress to carry on a system of national and international relief to mitigate and to prevent suffering caused by pestilence, famine, fire, floods, and other national calamities (RCW 84.36.030);

(F) Nonprofit organizations exempt from federal income tax under section 501(c)(3) of the Internal Revenue Code that are guarantee agencies under the federal guaranteed student loan program or guarantee agencies that issue debt to provide or acquire student loans (RCW 84.36.030);

(G) Nonprofit organizations, associations or corporations in connection with the operation of a public assembly hall, public meeting place, community meeting hall, or community celebration facility (RCW 84.36.037);

(H) Nonprofit organizations for solicitation or collection of gifts, donations, or grants for character building, benevolent, protective, or rehabilitative social services or for distribution to at least five other nonprofit organizations or associations that provide such social services (RCW 84.36.550);

(I) Associations maintaining and exhibiting art, scientific or historical collections for the benefit of the general public and not for profit (RCW 84.36.060);

(J) Fire companies for preventing and fighting fires (RCW 84.36.060); or

(K) Humane societies (RCW 84.36.060).

(ii) It was used by:

(A) Nonprofit day care centers (RCW 84.36.040);

(B) Free public libraries (RCW 84.36.040);

(C) Nonprofit orphanages (RCW 84.36.040);

(D) Nonprofit homes for the sick or infirm or nonprofit hospitals for the sick (RCW 84.36.040);

(E) Nonprofit outpatient dialysis facilities (RCW 84.36.040); or

(F) Nonprofit homes for the aging (RCW 84.36.041).

(iii) It was owned or used for nonprofit schools or colleges (RCW 84.36.050).

(iv) It was owned or leased, and used by:

(A) Nonprofit organizations providing emergency or transitional housing to low-income homeless persons or victims of domestic violence (RCW 84.36.043); or

(B) Associations engaged in the production and performance of musical, dance, artistic, dramatic, or literary works for the benefit of the general public and not for profit (RCW 84.36.060).

(e) When real property that was previously exempt under the provisions of RCW 84.36.260, that is, the property was used to conserve ecological systems, natural resources, or open space, becomes taxable, the rollback provisions of RCW 84.36.262 shall apply.

(4) Acquiring tax exempt status. Within sixty days of acquiring real property that may qualify for exemption, or within sixty days of converting real property to a use that may qualify for exemption, any nongovernmental organization, association, or corporation that wishes to have the property exempted from ad valorem taxation must file an application with the department of revenue relating to the subject property seeking either a new or continued exemption from property tax under the provisions of chapter 84.36 RCW. All applications must comply with the requirements set forth in WAC 458-16-110 and 458-16-111.

(a) If the application is approved, the property will be exempt from taxes payable the following year.

(b) If exempt property is transferred from one nonprofit organization, association, or corporation to another, the property shall continue to be exempt from taxation upon the timely receipt of the required application from the purchasing organization and after approval of this application.

AMENDATORY SECTION (Amending Order PT 86-2, filed 5/30/86)

WAC 458-16-150 Cessation of use—Taxes collectible for prior years. ((Upon cessation of any use exempted under RCW 84.36.030, 84.36.037, 84.36.040, 84.36.050 and 84.36.060, the taxes that would have been paid had the property not been exempt during the three years preceding, or for the life of the exemption, if such be less than three years, shall be collectible.

If the property has been exempt for more than ten years the rollback will not be implemented.

The property owner, county assessor, or any other public official having information or knowledge of any change in use, including lease or rental of all or a part of such properties, which may constitute cessation of use, shall notify the department of any such changes in use which may be brought to their attention. The department shall notify the current property owner, and the legal owner previously granted exemption, of the reported change in use and if

~~necessary examine the property to determine if the reported change has taken place. The property owner shall have 30 days from the time of notification by the department to submit any information which may be relevant to the question of changing use.~~

~~The department shall determine, upon the information supplied by the assessor or the public official, the property owner, or from the inspection of the property, whether such a cessation of use as warrants the rollback has occurred.~~

~~The county treasurer, upon notification from the department of revenue, shall compute the taxes payable, together with interest, at the same rate and computed in the same manner as that upon delinquent property taxes. The tax shall be distributed by the county treasurer in the same manner as taxes were distributed for those years that taxes would have been paid if the property had not been exempt. The interest shall be placed in the county current expense fund. If such a cessation of use involves a portion of the total property, the taxes collectible shall attach to only that portion affected. The rollback will be implemented only upon transfer of the property or when 51% or more of the property has ceased to qualify for exemption. The percentage of nonqualifying use will be determined separately for the land and improvements.~~

~~If the cessation of use resulted solely from one of the six conditions identified as (3)(a) through (f) in RCW 84.36.810, the provisions of this section shall not apply.~~

~~Lease or rental of all or part of such properties may constitute a cessation of use and knowledgeable authorities should report same to the department of revenue.~~

~~"Relocation of the activity" means the use of another location or site for the same activity that was carried on at the original site to the extent that it is a new location or site, or it is an existing site whose facilities have expanded to accommodate the relocated activity.~~

~~Property exempted for an intended use, but never put to such use will be subject to a rollback for the life of the exemption when sold or put to a disqualifying use, or when it is determined the intended use will not be achieved.)) (1)~~

~~**Introduction.** This section explains what occurs when property loses its tax exempt status and is placed back on the tax rolls, as well as the back taxes and interest that are collected under the provisions of RCW 84.36.810 when an exempt use ceases, unless the property has been exempt for more than ten years or is otherwise exempt from the provisions of this statute.~~

~~(2) **Definitions.** For purposes of this section, the following definitions apply:~~

~~(a) "Cessation of use" means that an owner of exempt real property has ceased to physically use the property for an exempt purpose. The term also refers to property that has lost its exempt status because it was transferred, loaned, or rented to an owner that is not entitled to an exemption.~~

~~(b) "Relocation of the activity" means that a portion or all of an exempt use has been relocated from the original site to a new location. The term shall not include undeveloped property of camp facilities.~~

~~(c) "Rollback" refers to the provisions of RCW 84.36.810 that make previously exempt property subject to back taxes and interest because of a cessation of an exempt use or a change in ownership unless the subject property has been exempt for at least ten years.~~

(3) **Applicability of this section.** In accordance with RCW 84.36.810, upon cessation of any exempt use the county treasurer shall collect all taxes that would have been paid if the property had not been exempt during the preceding three years, or for the life of the exemption, whichever is less, plus interest computed at the same rate and in the same manner as that upon delinquent property taxes. If the property has been exempt for more than ten years, this section is not applicable.

(a) When the status of real property changes from exempt to taxable, the rollback provisions of RCW 84.36.810 apply. Taxes are collected by the county treasurer in accordance with that statute if this property was previously exempt from ad valorem taxation under any of the following provisions:

(i) It was owned and used by:

(A) A nonprofit organization, association or corporation for character building, benevolent, protective, or rehabilitative social services (RCW 84.36.030);

(B) A nonprofit church, denomination, group of churches, or an organization or association, the membership of which is comprised solely of churches and/or their qualified representatives, as a church camp (RCW 84.36.030);

(C) An organization or society of veterans of any war of the United States (RCW 84.36.030);

(D) Corporations formed under an act of congress to furnish volunteer aid to members of the armed forces of the United States (RCW 84.36.030);

(E) Corporations formed under an act of congress to carry on a system of national and international relief to mitigate and to prevent suffering caused by pestilence, famine, fire, floods, and other national calamities (RCW 84.36.030);

(F) Nonprofit organizations exempt from federal income tax under section 501(c)(3) of the Internal Revenue Code that are guarantee agencies under the federal guaranteed student loan program or guarantee agencies that issue debt to provide or acquire student loans (RCW 84.36.030);

(G) Nonprofit organizations, associations or corporations in connection with the operation of a public assembly hall, public meeting place, community meeting hall, or community celebration facility (RCW 84.36.037);

(H) Nonprofit organizations for solicitation or collection of gifts, donations, or grants for character building, benevolent, protective, or rehabilitative social services or for distribution to at least five other nonprofit organizations or associations that provide such social services (RCW 84.36.550);

(I) Associations maintaining and exhibiting art, scientific or historical collections for the benefit of the general public and not for profit (RCW 84.36.060);

(J) Fire companies for preventing and fighting fires (RCW 84.36.060); or

(K) Humane societies (RCW 84.36.060).

(ii) It was used by:

(A) Nonprofit day care centers (RCW 84.36.040);

(B) Free public libraries (RCW 84.36.040);

(C) Nonprofit orphanages (RCW 84.36.040);

(D) Nonprofit homes for the sick or infirm or nonprofit hospitals for the sick (RCW 84.36.040);

(E) Nonprofit outpatient dialysis facilities (RCW 84.36.040); or

(F) Nonprofit homes for the aging (RCW 84.36.041).
(iii) It was owned or used for nonprofit schools or colleges (RCW 84.36.050).

(iv) It was owned or leased, and used by:

(A) Nonprofit organizations providing emergency or transitional housing to low-income homeless persons or victims of domestic violence (RCW 84.36.043); or

(B) Associations engaged in the production and performance of musical, dance, artistic, dramatic, or literary works for the benefit of the general public and not for profit (RCW 84.36.060).

(b) This section applies only when the ownership of the property is transferred or when fifty-one percent or more of the area has lost its exempt status. For example, if a nonprofit school or college that owns or uses two hundred acres for educational purposes and is receiving a property tax exemption for this property transfers ten acres, the ten acres are subject to the rollback provisions set forth in subsection (3) of this section if the property has been exempt for ten years or less. The nonprofit school or college will continue to receive a property tax exemption for the remaining one hundred ninety acres as long as the exempt property is used for the exempt use.

(c) This additional tax shall not be imposed if the cessation of use results solely from any of the following:

(i) Transfer to a nonprofit organization, association, or corporation for a use that also qualifies for and is granted exemption under the provisions of chapter 84.36 RCW;

(ii) A taking through an exercise of the power of eminent domain;

(iii) A sale or transfer to an entity having the power of eminent domain in anticipation of the exercise of this power;

(iv) An official action by an agency of the state of Washington or by the county or city within which the exempt property is located that disallows the present exempt use of the property;

(v) A natural disaster (such as a flood, windstorm, earthquake, or other such calamity) that changes the use of the property;

(vi) Relocation of the activity and use of another location or site;

(vii) Cancellation of a lease on property previously exempt as:

(A) A nonprofit day care center;

(B) A library;

(C) An orphanage;

(D) A home for the sick or infirm;

(E) A hospital;

(F) An outpatient dialysis facility;

(G) A nonprofit home for the aging;

(H) A nonpermanent shelter for low-income homeless persons or victims of domestic violence; and

(I) An organization that either produces or performs, or both, musical, dance, artistic, dramatic, or literary works.

(viii) A change in the exempt portion of a home for the aging, as long as some portion of the home remains exempt; or

(ix) The conversion of a home for the aging from full exemption to a partial exemption or to taxable status for taxes payable in 1994, 1995, and 1996 (RCW 84.36.041).

(4) Duty to notify.

(a) An owner of exempt property who knows of or who has information regarding a change in the use of exempt property shall notify the department of revenue of this change. An owner of exempt property must also report the loan or rental of all or a portion of the exempt property since the loan or rental of exempt property may change its taxable status.

(b) Any other person who knows or has information regarding a change in use of exempt property shall notify the county assessor of any such change. The assessor, in turn, shall report this information to the department of revenue.

(c) After being notified about a change in use of exempt property, the department may physically inspect the property to determine if the reported change has taken place.

(d) After a change in use, the final determination of the taxable status of the subject property will be made by the department of revenue.

(5) Notice to owner. When it is determined that a change in use has occurred and the rollback provisions may apply, the department of revenue shall notify the current owner of exempt property and, in the case of a transfer, the previous legal owner of exempt property that the change in use may change the taxable status of the property and that the property may be subject to the rollback provisions set forth in subsection (3) of this section. The owner(s) of this property shall have thirty days from the date of the notice to submit any comments or information relevant to this change in use to the department. The department shall then issue a final determination about the taxable status of this property.

(6) County treasurer. Upon notification from the department of revenue that the exempt use of the property has ceased, the county treasurer shall compute and collect the taxes payable, including interest computed at the same rate and in the same manner as that upon delinquent property taxes. The interest collected shall be placed in the county current expense fund.

AMENDATORY SECTION (Amending Order PT 77-2, filed 5/23/77)

WAC 458-16-180 Cemeteries. ~~((The following property shall be exempt from taxation, when used without discrimination as to race, color, national origin, or ancestry:~~

~~All lands, and buildings required for necessary administration and maintenance of public burying grounds or cemeteries, which are used, or to the extent used exclusively for public burying grounds or cemeteries. Use shall be evidenced in one of the following manners:~~

~~(1) Actual entombment of human remains;~~

~~(2) A contractual limitation to limit the use of the property to entombment of human remains, i.e., sale of grave plot;~~

~~(3) Dedication of property as a cemetery as provided under chapter 68.24 RCW; provided other nonqualifying use is not made of the property.~~

~~Lands owned by a nonprofit cemetery association, exempted under the provisions of RCW 68.20.110, but not exceeding 80 acres. Expansion, by additional 20 acre sections, when necessary for continuing the operation of the cemetery, may be included; this limitation does not apply to a corporation sole.~~

~~Necessary administration and maintenance of cemeteries shall be construed to mean those functions, the necessity of which would be nonexistent but for the presence of the cemetery, the performance of which is a direct benefit to the cemetery. This may include the groundskeeping or maintenance building and the administration building used in connection with the general conduct of a cemetery business. Residential use of the grounds is not generally within the scope of this construction, but under certain circumstances, listed below, the department may allow such use in a limited manner.~~

~~(1) The residence is necessary for the protection of the property.~~

~~and~~

~~(2) The size is reasonable for the purpose.~~

~~and~~

~~(3) The caretaker is required to be on the premises 365 days a year without exception unless a substitute is in place. This requirement would apply to all hours that the cemetery would be normally closed or during the time when vandalism or other damage is most likely to take place.~~

~~and~~

~~(4) No rent is paid to the cemetery by the caretaker but is provided to him as part of his employment.~~

~~and~~

~~(5) Protection is afforded by the caretakers, not merely by their presence, but that they regularly patrol the grounds, lock gates if necessary, and generally act in the capacity of ensuring the property is secure.~~

~~Exempt properties held by families or individuals for the purposes of burial are not subject to the requirement applying for exemption.~~

~~Nonprofit cemeteries are only required to file an initial application and additional filings are not required on property approved for exemption by the state department of revenue.)~~ (1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.020 to public burying grounds or cemeteries.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Burial" means the placement of uncremated human remains in the ground.

(b) "Dedicated" means a written declaration of dedication of the property to which the exemption is to be applied has been filed with the county auditor in the county where the property is located, dedicating the property exclusively as a public burying ground or cemetery.

(c) "Entombment" means the placement of uncremated human remains in a crypt in a mausoleum.

(d) "Interment" means the disposition of human remains by cremation and inurnment, entombment, or burial in a place used, or intended to be used, and dedicated, for a public burying ground or cemetery.

(e) "Inurnment" means placing cremated remains in an urn or other container.

(f) "Necessary administration and maintenance" means those administrative and maintenance functions necessary to administer and maintain the cemetery and the necessity of

which would be nonexistent but for the presence of the cemetery.

(g) "Public burying grounds or cemeteries" means places used, and dedicated, for the interment of human remains, and also includes:

(i) An "abandoned cemetery," "historical cemetery," and "historic grave" as defined in chapter 68.60 RCW;

(ii) Indian graves as protected under chapter 27.44 RCW; and (iii) Nonprofit cemeteries owned or operated by any recognized religious denomination or any of its churches that qualifies for a property tax exemption under the provisions relating to churches under the provisions of RCW 84.36.020.

(3) Exemption. The following property shall be exempt from taxation when used without discrimination as to race, color, national origin, or ancestry:

(a) All lands used, or to the extent used, exclusively for public burying grounds or cemeteries.

(b) All buildings required for and used, or to the extent used, exclusively for necessary administration and maintenance of public burying grounds or cemeteries including, but not limited to, the groundskeeping or maintenance building and the administration building. This exemption does not generally include a residential building; however, a caretaker's residence may be exempt if the following conditions are met:

(i) The caretaker's duties include regular surveillance and patrolling of the property;

(ii) The size of the residence is reasonable and appropriate in light of the caretaker's duties and the size of the exempt property;

(iii) The caretaker, or the caretaker's substitute, is required on the premises at all hours the cemetery is closed or at least during the time when vandalism or other damage is most likely to occur; and

(iv) The caretaker receives the use of the residence as part of his or her compensation and does not pay rent. Reimbursement of utilities expenses created the caretaker's presence will not be considered as rent.

(4) Applications and annual certifications. Nonprofit cemetery corporations or associations are only required to file an initial application for exemption as described in WAC 458-16-110. For profit cemetery corporations or associations shall file renewal applications and annual certifications as required by WAC 458-16-110.

AMENDATORY SECTION (Amending Order PT 82-8, filed 11/2/82)

WAC 458-16-190 Churches, parsonages and convents. ((All churches and grounds that are owned by religious organizations and exclusively used for church purposes shall be exempt to the following extent:

(1) The area upon which a church and parsonage is or shall be built, not exceeding five acres of land. The area exempt includes the ground covered by the church, parsonage, and convent, the buildings and improvements required for the maintenance and security of such property and the structures and ground necessary for street access, parking, light and ventilation. (AGO 5-1-1952; PTB No. 217)

(2) If the requirements of subsection (1) are met the exemption will apply to a parsonage or convent and a church

built on nonecontiguous lots, or to the construction of separate parsonages for a minister and assistant minister (AGO 4-9-1947), and to caretakers quarters when the following conditions are met:

(a) The residential use is necessary for the protection of property.

and

(b) The size is reasonable for the purpose.

and

(c) The caretaker is required to provide security or provide custodial service indicated in (c)(i) or (c)(ii).

and

(d) No rent is paid to the church by the caretaker. Living quarters are provided in lieu of wages or salary. The service provided by the caretaker is considered of equal or greater value than the provision of living quarters. Reimbursement of utilities expense created by the caretaker will not be considered as rent.

and

(e)(i) Protection is afforded by the caretakers, not merely by their presence, but their duties will include periodic inspection of the property to ensure its security.

or

(e)(ii) Necessary on a daily basis to open and close the premises at irregular hours, activate or shut down environmental systems, and other maintenance activities necessary for the effective operation and utilization of the facilities.

(3) Land unoccupied or not covered by a church, parsonage or convent, and not occupied for church or related purposes, is exempt up to an area the equivalent of 120 feet by 120 feet, except where additional unoccupied land may be required to conform with state or local codes, zoning, or licensing requirements.

(4) Where property is used for nonchurch purposes, the exemption is lost. If a portion of the church building or grounds is used for commercial rather than church purposes, that portion must be segregated and taxed whether or not the profit reserved by the church from the commercial use is applied to church purposes. (*Norwegian Lutheran Church v. Wooster*, 176 Wash. 581 (1934).)

(5) The rental or lease of any portion of the church building or grounds is subject to the following provisions:

(a) Must be to a nonprofit organization, association, corporation or school.

(b) Must be for an eleemosynary use (see definition below).

(c) Rental must be reasonable and solely for operation and maintenance of property.

(6) Definitions:

(a) "Church purposes" shall be construed to mean the use of real and personal property owned by a nonprofit religious organization for religious worship or related administrative, educational, eleemosynary, and social activities. This definition is to be broadly construed.

(b) "Eleemosynary" shall be construed to mean charitable; not limited to the distribution of alms, but also includes activities when some social objective is served or general

welfare is advanced, and where, but for the activity, government might be required to provide the service.

(c) "Convent" means a house or set of buildings occupied by a community of clergymen or nuns devoted to religious life under a superior.

(d) "Parsonage" means a residence, owned in fee or contract purchase by the church, which is occupied by a clergyman who is designated for a particular congregation and who holds regular services therefor. Property, title of which will be transferred to an individual upon completion of a tour of duty or other obligations, will not qualify for property tax exemption.

(e) "Clergyman" means the female as well as the male gender.

(f) "Owned" means owned in fee or by contract purchase.

With regard to property covered by this rule, the department of revenue may request additional information, in the area of finances, relative to the lease rental or license to use the properties claimed for exemption. This shall not be construed as a license to require general information relating to the amount of revenue received as donations, gifts, bequests, or tithes. The department shall have access to financial information, where necessary, to establish nonprofit status, if requested in writing.)) (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.020 to churches, parsonages, and convents.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Church purposes" means the use of real and personal property owned by a nonprofit religious organization for religious worship or related administrative, educational, eleemosynary, and social activities. This definition is to be broadly construed. The term "use" includes real property owned by a nonprofit religious organization upon which a church shall be built.

(b) "Clergy person" means a person ordained or regularly licensed for religious service and includes both male and female individuals.

(c) "Commercial" refers to an activity or enterprise that has profit making as one of its primary purposes.

(d) "Convent" means a house or set of buildings occupied by a community of clergy or nuns devoted to religious life under a superior.

(e) "Eleemosynary" means charitable, including types of activities in which some social objective is served or general welfare is advanced.

(f) "Owned" means owned in fee or by contract purchase.

(g) "Parsonage" means a residence, owned by a church, that is occupied by a clergy person designated for a particular congregation and who holds regular services for that congregation.

(h) "Regular services" means religious services that are conducted on a routine and systematic basis at prearranged times, days, and places. This term includes religious services that are conducted by a visiting or circuit clergy person who may only hold services once a month in a particular location if that person is scheduled to conduct services on a routine and prearranged basis on the exempt property.

(i) "Unoccupied land" means land that is undeveloped, unused, and upon which no structures or improvements have been built.

(A) This land includes, but is not limited to, greenbelt, wetland, and other undeveloped areas contiguous to an exempt church, parsonage, or convent.

(B) This land does not include parking lots, landscaped grounds, or playing fields.

(3) Property exempt and extent of exemption. All churches and the ground upon which a church is or shall be built, together with a parsonage, convent, structures and ground necessary for street access, parking, light, ventilation, and buildings and improvements required to maintain and safeguard the property owned by a nonprofit religious organization and wholly used for church purposes shall be exempt from property taxation to the following extent:

(a) The exempt area shall not exceed five acres of land, including ground that is occupied and unoccupied. Occupied ground is ground covered by the church, parsonage, convent, structures and ground necessary for street access, parking, light, ventilation, and buildings and improvements required for the maintenance and security of such property.

(b) The unoccupied land included within this five-acre limitation may not exceed one-third of an acre (fourteen thousand four hundred square feet), unless additional unoccupied land is required to conform with state or local codes, zoning, or licensing requirements.

(4) Noncontiguous property. A parsonage or convent may qualify for exemption even if located on land that is not contiguous to the church property; however, the five acre limitation still applies, as does the limitation described in subsection (3)(b) of this section with respect to unoccupied land.

(5) Exemption of caretaker's residence. A caretaker's residence located on church property may qualify for exemption if the following conditions are met:

(a) The caretaker's duties include regular surveillance and patrolling of the property;

(b) The size of the residence is reasonable and appropriate in light of the caretaker's duties and the size of the exempt property;

(c) The caretaker is required to provide either security or maintenance service described as follows:

(i) Security of the premises is provided by the caretaker, not merely by his or her presence, but by regular surveillance and patrolling of the grounds, locking gates if necessary, and generally acting in a manner to ensure the security of the property; or

(ii) Maintenance service is provided on a daily basis to open and close the premises, activate or shut down environmental systems, and provide other maintenance and custodial services necessary for the effective operation and utilization of the facilities; and

(d) The caretaker receives the use of the residence as part of his or her compensation and does not pay rent. Reimbursement of utilities expenses created by the caretaker's presence will not be considered as rent.

(6) Property not used for church purposes. When property is not used for church purposes, the exemption is lost. If a portion of the exempt property is used for commercial rather than church purposes, that portion must be segregated and taxed whether or not the proceeds received

by the church from the commercial use are applied to church purposes.

(7) Loan or rental of exempt property. The tax exempt status of any property exempt under this section will not be affected if it is loaned or rented under the following conditions:

(a) The loan or rental must be to a nonprofit organization, association, corporation, or school;

(b) The loan or rental must be for an eleemosynary activity; and

(c) The rental income must be reasonable and devoted solely to the operation and maintenance of the property.

(8) Fund-raising activities. The use of exempt property for fund-raising activities sponsored by an exempt organization, association, or corporation does not subject the property to taxation if the fund-raising activities are consistent with the purposes for which the exemption was granted. The term "fund-raising" means any revenue-raising activity limited to less than five days in length, that disburses fifty-one percent or more of the profits realized from the activity to the exempt nonprofit organization, association, or corporation that is holding the fund-raising, and that takes place on exempt property.

(a) Example 1. A nonprofit social service agency holds an art auction in the church basement to raise funds. Since the fund-raising activity is being held on exempt property, the activity must be less than five days in length and fifty-one percent of the profits must be disbursed to the social agency.

(b) Example 2. The women's auxiliary of the church has a candy sale to raise funds for the church's program to provide meals to the homeless during which the candy is sold door-to-door by members of the auxiliary. Since the candy sale is not being held on the exempt property, the sale is not limited to five days in duration nor do fifty-one percent of the profits from this fund-raising activity have to be remitted to the church.

AMENDATORY SECTION (Amending Order PT 77-2, filed 5/23/77)

WAC 458-16-200 ((Grounds)) Land upon which a church or parsonage shall be built. ((Any church claiming exemption from ad valorem taxation on the property upon which a church, parsonage, or convent is to be built, shall have a specific plan and clear intent to hold such land for this and no other purpose.

It shall be the responsibility of such organizations to sustain the burden of proof that a reasonably specific and active program is being carried out to accomplish the construction of a church, parsonage, or convent within a reasonable period of time. Such proof should include sufficient information from which the department may be able to determine what portion of the property will qualify for exemption when construction is completed.

Proof which may be submitted to evidence the required intent to build may include, but is not limited to:

(1) Affirmative action by the board of directors, trustees, or governing body toward an active program of construction.

(2) Itemized reasons for the proposed construction, such as

(a) Need for expansion due to growth;

- (b) Replacement of wornout buildings;
- (c) Initial facilities for a newly organized congregation;
- (3) Clearly established plans for financing the construction.

(4) Proposed architectural plans which would tend to show what portion of the property will be under actual use.

- (5) Building permits.

(6) Such other proof as the department may deem relevant to show an active program aimed at construction. The length of time under which a property may be held for future construction shall be dependent upon the intent evidenced under the circumstances of each individual situation.)) (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.020 to land upon which a church is to be built or upon which a parsonage or convent is being built in conjunction with and on land contiguous to a church.

(2) **Exemption.** Any property upon which a church is to be built may be exempt from ad valorem taxation if the church has a specific plan and clear intent to use the land for this and no other purpose.

(a) This property may include land upon which a parsonage or convent is to be built on land contiguous to a church.

(b) A parsonage or convent to be built on noncontiguous real property shall not be entitled to exemption until the parsonage or convent is built and occupied by a clergy person.

(3) **Burden of proof.** A nonprofit religious organization claiming this exemption must submit proof that a reasonably specific and active program is being carried out to construct a church within a reasonable period of time. Such proof shall include sufficient information from which the department will be able to determine what portion of the property will qualify for exemption when construction is completed.

(4) **Proof of required intent.** Proof that may be submitted to evidence the required intent to build may include, but is not limited to:

(a) Affirmative action by the board of directors, trustees, or governing body of the nonprofit religious organization toward an active program of construction.

(b) Itemized reasons for the proposed construction, such as:

- (i) Need for expansion due to growth;
- (ii) Replacement of wornout buildings; or
- (iii) Initial facilities for a newly organized congregation or nonprofit religious organization;

(c) Clearly established plans for financing the construction;

(d) Proposed architectural plans that would show what portion of the property will be under actual exempt use;

- (e) Building permits; or

(f) Any other proof the department may deem relevant to show an active program aimed at construction.

(5) **Time limit regarding future construction.** The length of time under which a property may be held for future construction under this section shall be dependent upon the intent evidenced under the circumstances of each individual situation. If there is no evidence of progress towards construction within a calendar year, the exemption will be removed.

AMENDATORY SECTION (Amending Order PT 87-10, filed 12/28/87)

WAC 458-16-210 Nonprofit(, nonsectarian)) organizations or associations organized and conducted for nonsectarian purposes. ((1) The real and personal property owned by nonsectarian organizations is exempt from taxation, provided that: (a) The organization is nonprofit and is organized and conducted primarily for nonsectarian purposes, (b) the property is, except as provided in RCW 84.36.805 and subsections (2) and (4) of this section, used for character building, benevolent, protective, rehabilitative social services directed at persons of all ages or used by a student loan agency and (c) if these organizations were not conducting these activities the government would provide this service.

These are the primary uses and the word "fraternal" is not among them, therefore, organizations whose main function is fraternal would not qualify under this section.

This exemption extends to property of nonprofit, nonsectarian organizations which are used for benevolent, protective or rehabilitative social services and those which are actually related to those purposes. If any portion of the property of the organization is used for commercial rather than nonsectarian purposes, that portion must be segregated and taxed. Thrift store operations, restricted to the sale of "donated merchandise" will not jeopardize the exemption if the claimant can verify the proceeds are directed to an exempt purpose.

Organizations claiming exemption on property used to provide short term emergency shelter to homeless persons will upon request provide complete financial information regarding the claimed property, and will also provide the policy used in screening clients, the maximum term of stay, the fee schedule and the number of persons housed.

(2) The loan or rental of the property does not subject the property to tax if (a) the rents and donations received for the use of the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented, and (b) the property would be exempt from tax if owned by the organization to which it is loaned or rented. (RCW 84.36.805): *Provided, however,* That the loan or rental of property to other nonprofit organizations, for periods of less than fifteen days shall not be subject to the restrictions of (a) of this subsection so long as all income received therefrom is devoted exclusively to exempt purposes. Maintenance and operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles. Property rented or leased for the purpose of deriving revenue from it, shall not be exempt and must be segregated and taxed whether or not such revenue is devoted to exempt purposes. For purposes of this subsection the term "revenue" means income received from the loan, lease or rental of property when such income exceeds the amount of the maintenance and operation expenses attributable to the term and portion of the property loaned or rented.

(3) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:

~~(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization.~~

~~(b) The financial records of the exempt organization will identify all receipts and expenses of the programs.~~

~~(c) The program is compatible and consistent with the purposes of the exempt organization.~~

~~(d) A summary of all receipts and expenses of the program will be provided to the department upon request.~~

~~Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.~~

~~(4) The use of the property for fund raising activities sponsored by the exempt organization does not subject the property to tax if the fund raising activities are consistent with the purposes for which exemption is granted. The term "fund raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of the property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the organization.)~~ **(1) Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.030(1) to nonprofit organizations or associations organized and conducted for nonsectarian purposes.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Benevolent" refers to social services or programs that are directed at persons of all ages, that arise from or are prompted by motives of charity or a sense of benevolence, that are marked by a kindly disposition to promote the happiness and prosperity of others, by generosity in and pleasure at doing good works, or that are organized for the purpose of doing good. For example, a benevolent organization may provide a food bank, a soup kitchen, or counseling services at cost.

(b) "Character building" means social services or programs that are designed for the general public good, that assist people with general living skills, that develop interview and job seeking skills, or that assist people in working towards independent living and self sufficiency. These services include, but are not limited to, programs designed to develop an individual's moral or ethical strength, leadership, integrity, self-discipline, fortitude, self-esteem, and reputation.

(c) "Commercial" refers to an activity or enterprise that has profit making as its primary purpose.

(d) "Community outreach group" means a nonprofit group organized to extend social services to a particular segment of the community; for example, a rescue mission organized to feed the homeless or a program that targets juveniles "at risk" of criminal or abusive behavior.

(e) "Nonsectarian purpose" means a purpose that is not associated with or limited to a particular religious group.

(f) "Protective" refers to activities that are meant to cover, to guard, or to shield other persons from injury or destruction or to save others from financial loss. For example, a protective organization may provide housing for battered persons or for the developmentally disabled or may

assist persons with behavioral problems by providing encouragement, support, and training.

(g) "Rehabilitative or rehabilitation" refers to activities designed to restore individuals to a former capacity, to a condition of health, or to useful or constructive activity. For example, a rehabilitative organization may assist persons to overcome alcohol or substance abuse, or to overcome the affects of a physical injury, stroke, or heart attack.

(h) "Social service" means programs designed to help people resolve problems, become more self-sufficient, prevent dependency, strengthen family relationships, and/or enhance the functioning of individuals in society. These services include, but are not limited to, programs in the general categories of:

(i) Socialization and development; and

(ii) Therapy, help, rehabilitation, and social protection.

(3) Exemption. The real and personal property owned by a nonprofit organization or association is exempt from taxation if the organization, association, or corporation is organized and conducted for nonprofit and nonsectarian purposes. To be exempt, the property must be used for and integrally related to character-building, benevolent, protective, or rehabilitative social services directed at persons of all ages.

(a) To qualify for this exemption, there must be an element of gift and giving in the nonprofit organization's, association's, or corporation's activities, in relation to the people it serves. This element of gift and giving requires the giving something of value with no expectation of compensation or remuneration. The words "gift" and "giving," within the context of this section, mean a voluntary act. In order to meet this requirement of gift and giving, the nonprofit organization, association, or corporation must annually meet one of the following conditions:

(i) Provide goods and/or services free of charge or at a rate that is at least twenty percent below the total actual cost of such goods and/or services to a minimum of fifteen percent of the total number of people assisted by that nonprofit organization, association, or corporation; or

(ii) Contribute at least ten percent of its total annual income towards the support of character-building, benevolent, protective or rehabilitative social services or programs. "Total annual income" refers to the total income reported to the Internal Revenue Service for that year and includes, but is not limited to, funds received through direct and indirect public support, government grants, membership fees, and other contributions. The term does not include funds that are specifically donated or contributed for capital improvements.

(A) In order to meet this ten percent requirement, a nonprofit organization, association, or corporation may include, but is not limited to, the value of time volunteers donate to carry out program services and functions, the loan of its facilities to community outreach groups, and gifts of scholarships and other fee subsidies.

(B) If a nonprofit organization utilizes volunteer time to reach the ten percent requirement, it must maintain records identifying the individuals who donate their services and the number of hours they donate. The value of donated time will be calculated by using the federal minimum wage standard.

(C) If a nonprofit organization allows community outreach groups to use its facilities free of charge, it must maintain records identifying the community outreach groups that used the exempt property and the number of hours each group used the exempt property. The value of this use will be calculated by multiplying the number of hours, or any portion of an hour, the facility is used by these groups times the usual and customary charge the nonprofit organization, association, or corporation charges to rent its facility to any other group.

(b) A nonprofit organization, association, or corporation may not impose conditions or restrictions on the use of the exempt property by persons who do not personally pay the total actual cost of a social service, except conditions or restrictions that are reasonably necessary to safeguard the exempt property and to comply with the purposes of this exemption.

(c) Property used by a fraternal organization or association for fraternal purposes does not qualify for an exemption under this section.

(d) If any portion of the organization's or association's property is used for a commercial rather than a nonprofit, nonsectarian exempt purpose that portion must be segregated and taxed.

(e) The sale of donated merchandise shall not be considered a commercial use of the property if the proceeds are dedicated to the exempt purpose associated with the nonprofit, nonsectarian organization or association. For example, thrift store operations that are restricted to the sale of "donated merchandise" will not jeopardize this exemption if the claimant can verify the proceeds are directed to an exempt purpose.

(f) This exemption shall also include the real and personal property owned by a nonprofit organization, association, or corporation that is used for the solicitation or collection of gifts, donations, or grants if the organization, association or corporation:

(i) Is organized and conducted for nonsectarian purposes;

(ii) Is affiliated with a state or national organization that authorizes, approves, or sanctions volunteer charitable fund-raising organizations;

(iii) Is qualified for exemption under section 501 (c)(3) of the federal Internal Revenue Code;

(iv) Is governed by a volunteer board of directors; and

(v) Does one or both of the following:

(A) Uses the gifts, donations, and grants for character building, benevolent, protective, or rehabilitative social services directed at persons of all ages;

(B) Distributes gifts, donations, or grants each year to at least five other nonprofit organizations, associations, or corporations that are organized and conducted for nonsectarian purposes and provide character building, benevolent, protective, or rehabilitative social services directed at persons of all ages.

(4) Additional requirements. Any organization or association that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.030.

AMENDATORY SECTION (Amending Order PT 86-2, filed 5/30/86)

WAC 458-16-220 Church camps. ((The property owned by a nonprofit church or an organization or association comprised solely of churches or their qualified representatives which is, except as provided in RCW 84.36.805 and subsections (1) and (3) of this section, used exclusively or jointly used for organized and supervised recreational or educational activities and church purposes as related to such camp facilities are exempt from ad valorem taxation up to a maximum of 200 acres as selected by the church, including buildings and other improvements thereon.

(1) The loan or rental of the property does not subject the property to tax if (a) the rents and donations received for the use of the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented; and (b) the property would be exempt from tax if owned by the organization to which it is loaned or rented. (RCW 84.36.805) *Provided, however,* That the loan or rental of property to other nonprofit organizations, for periods of less than fifteen days shall not be subject to the restrictions of (a) of this subsection so long as all income received therefrom is devoted exclusively to exempt purposes. Maintenance and operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles. Property rented or leased for the purpose of deriving revenue from it, shall not be exempt and must be segregated and taxed whether or not such revenue is devoted to exempt purposes. For purposes of this subsection the term "revenue" means income received from the loan, lease or rental of property when such income exceeds the amount of the maintenance and operation expenses attributable to the term and portion of the property loaned or rented.

(2) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:

(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization.

(b) The financial records of the exempt organization will identify all receipts and expenses of the programs.

(c) The program is compatible and consistent with the purposes of the exempt organization.

(d) A summary of all receipts and expenses of the program will be provided to the department upon request.

Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.

(3) The use of the property for fund raising activities sponsored by the exempt organization does not subject the property to tax if the fund raising activities are consistent with the purposes for which exemption is granted. The term "fund raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of the property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the organization.

~~It shall be the burden of the organization owning the property to insure that the lessee abides by the terms of the statute under which the exemption is obtained and provide evidence of compliance upon request.))~~ (1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.030(2) to property used as a church camp and owned by a nonprofit church, denomination, group of churches, or an organization or association of churches.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Church purposes" means the use of real and personal property as a church camp and owned by a nonprofit religious organization for religious worship or related administrative, educational, eleemosynary, and social activities.

(b) "Property" means real or personal property owned by a nonprofit church, denomination, group of churches, or an organization or association of churches.

(3) Exemption. Property owned by a nonprofit church, denomination, group of churches, or an organization or association comprised solely of churches or their qualified representatives that is used exclusively on a regular and scheduled basis for organized and supervised recreational or educational activities and church purposes related to such camp facilities is exempt from ad valorem taxation up to a maximum of two hundred acres as selected by the church, including buildings and other improvements thereon.

(4) Additional requirements. Any organization or association that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.030.

AMENDATORY SECTION (Amending Order PT 86-2, filed 5/30/86)

WAC 458-16-230 Character building organizations.

~~((1) Property, including buildings and improvements required for the maintenance and safeguarding of such property, which is owned by organizations and associations engaged in character building of boys and girls under eighteen years of age, is exempt from taxation to the extent that it is, except as provided in RCW 84.36.805 and subsections (2) and (4) of this section, solely used, or to the extent used, for such purposes and uses: *Provided*, That (a) the group is nonprofit, and (b) the purposes of the group are for the general good and its properties are devoted to the general public benefit. Only that property solely used is exempt, and property used for other purposes, whether commercial or otherwise, must be segregated and taxed.~~

~~If the existing charters of such organizations or associations provide for services to boys and girls up to the age of twenty one years, then such organizations or associations shall be deemed qualified under this rule.~~

~~(2) The loan or rental of the property does not subject the property to tax if (a) the rents and donations received for the use of the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented; and (b) the property would be exempt from tax if owned by the~~

~~organization to which it is loaned or rented. (RCW 84.36.805): *Provided, however*, That the loan or rental of property to other nonprofit organizations, for periods of less than fifteen days shall not be subject to the restrictions of (a) of this subsection so long as all income received therefrom is devoted exclusively to exempt purposes. Maintenance and operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles. Property rented or leased for the purpose of deriving revenue from it, shall not be exempt and must be segregated and taxed whether or not such revenue is devoted to exempt purposes. For purposes of this subsection the term "revenue" means income received from the loan, lease or rental of property when such income exceeds the amount of the maintenance and operation expenses attributable to the term and portion of the property loaned or rented.~~

~~(3) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:~~

~~(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization.~~

~~(b) The financial records of the exempt organization will identify all receipts and expenses of the programs.~~

~~(c) The program is compatible and consistent with the purposes of the exempt organization.~~

~~(d) A summary of all receipts and expenses of the program will be provided to the department upon request.~~

~~Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.~~

~~(4) The use of the property for fund raising activities sponsored by the exempt organization does not subject the property to tax if the fund raising activities are consistent with the purposes for which exemption is granted. The term "fund raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of the property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the organization.))~~ (1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.030(3) to property owned by a nonprofit organization or association engaged in character building of children under eighteen years of age.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Character building" refers to activities for children under eighteen years of age that are for the general public good. The activities may build, improve, or enhance a child's moral constitution by developing moral or ethical strength, leadership, integrity, self-discipline, fortitude self-esteem, and reputation. For example, "character building" activities may involve organized and supervised recreational activities including, but not limited to, exploring, hiking, beachcombing, swimming, fishing, studying, and discussion groups.

(b) "Commercial" refers to as activity or enterprise that has profit making as its primary purpose.

(c) "Property" means real and personal property owned and used by a nonprofit organization or association engaged in character building of children under eighteen years of age and includes all buildings, structures, and improvements required to maintain and to safeguard the property.

(3) Exemption. Property that is owned by nonprofit organizations or associations engaged in character building of children under eighteen years of age is exempt from taxation if it is exclusively used, or to the extent it is exclusively used, to promote character building.

(a) To be entitled to receive this exemption, the organization or association must be nonprofit and its purpose must be for the general public good. All property of a character building organization or association must be devoted to the general public benefit.

(b) Only property that is exclusively used for character building is exempt under this section. If the property is used for any other purpose, whether commercial or otherwise, it must be segregated and taxed.

(c) A nonprofit character building organization or association may also qualify for this exemption if, prior to 1971, its articles of incorporation or charter mandated the organization or association to provide services to children up to the age of twenty-one years.

(4) Additional requirements. Any organization or association that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.030.

(5) Related statute. See RCW 82.04.4271; if a "nonprofit youth organization" is exempt from property taxation under RCW 84.36.030, it may deduct membership fees and certain service fees in calculating the amount of business and occupation tax due.

AMENDATORY SECTION (Amending Order PT 86-2, filed 5/30/86)

WAC 458-16-240 Veterans organizations. ((1) Property of veterans organizations, which are recognized by the department of defense and nationally chartered, are exempted from taxation. To qualify, these organizations shall have as their general purpose and objectives; (a) the preservation of war memories and associations, and (b) consecration of their efforts toward mutual helpfulness and patriotic or community services. To be exempt the property must be, except as provided in RCW 84.36.805 and subsections (2) and (4) of this section, used for the purposes and objectives of the organization.

(2) The loan or rental of the property does not subject the property to tax if (a) the rents and donations received for the use of the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented; and (b) the property would be exempt from tax if owned by the organization to which it is loaned or rented. (RCW 84.36.805): *Provided, however,* That the loan or rental of property to other nonprofit organizations, for periods of less than fifteen days shall not be subject to the restrictions of (a) of this subsection so long as all income received therefrom is devoted exclusively to exempt purposes. Maintenance and

operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles. Property rented or leased for the purpose of deriving revenue from it, shall not be exempt and must be segregated and taxed whether or not such revenue is devoted to exempt purposes. For purposes of this subsection the term "revenue" means income received from the loan, lease or rental of property when such income exceeds the amount of the maintenance and operation expenses attributable to the term and portion of the property loaned or rented.

(3) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:

(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization.

(b) The financial records of the exempt organization will identify all receipts and expenses of the programs.

(c) The program is compatible and consistent with the purposes of the exempt organization.

(d) A summary of all receipts and expenses of the program will be provided to the department upon request.

Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.

(4) The use of the property for fund raising activities sponsored by the exempt organization does not subject the property to tax if the fund raising activities are consistent with the purposes for which exemption is granted. The term "fund raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of the property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the organization.) (1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.030(4) for real and personal property owned by organizations and societies of veterans of any war of the United States.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Inadvertent use or inadvertently used" means any unintentional or accidental use of exempt property by an individual, organization, association, or a corporation to promote business activities through either carelessness, lack of attention, lack of knowledge, mistake, surprise, or neglect.

(b) "Maintenance and operation expenses" means items of expense allowed under generally accepted accounting principles.

(c) "Property" means real and personal property owned by organizations or societies of war veterans.

(3) Exemption. Property owned by organizations or societies of war veterans, which are recognized by the department of defense and nationally chartered, is exempt from taxation.

(a) The general purposes and objectives of these organizations or societies shall be:

(i) To preserve memories and associations incident to war service; and

(ii) To devote their members' efforts to mutual helpfulness and to patriotic and community service to state and nation.

(b) In order to qualify for this exemption, the property must be used in a manner reasonably necessary to carry out the purposes and objectives of the organization or society of war veterans. For example, a building owned by a chapter of the veterans of foreign wars that is used to hold meetings to plan a Veterans Day celebration may qualify for exemption.

(c) The tax exempt status of the property will not be affected if it is loaned or rented and the amount of rent or donations collected for the use, loan, or rental of the exempt property:

(i) Is reasonable; and

(ii) Does not exceed the maintenance and operation expenses that are created by the corresponding use, loan, or rental.

(4) Use of property for pecuniary gain or to promote business activities. If property owned by an organization or society of veterans that is exempt under subsection (3) of this section is used for pecuniary gain or to promote business activities, the property tax exemption will be lost for the assessment year in which the exempt property was so used. The exemption will not be lost if:

(a) The exempt property is used for pecuniary gain not more than three days a year; or

(b) The exempt property is inadvertently used by an individual, organization, association, or a corporation to promote business activities as long as the inadvertent use is not a pattern of use. A "pattern of use" is presumed when an inadvertent use of the property to promote business activities is repeated within the same assessment year or within two or more successive assessment years.

(5) Additional requirements. Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.030.

AMENDATORY SECTION (Amending Order PT 87-10, filed 12/28/87)

WAC 458-16-260 **Nonprofit day care centers, libraries, orphanages, ((homes for the aged,)) homes for sick or infirm, hospitals, outpatient dialysis facilities. ((Buildings, grounds, and other real and personal property to the extent used, except as provided for in RCW 84.36.805 and subsections (9) and (11) of this section, by the following institutions are exempt from taxation:**

(1) Day care centers, as defined by RCW 74.15.020;

(2) Preschools;

(3) Free public libraries;

(4) Orphanages and orphan asylums;

(5) Homes for the aged;

(6) Homes for the sick or infirm;

(7) Hospitals for the sick including any portion of the hospital building or other buildings used as a nurse's home or residence for hospital employees, or operated as a portion of the hospital unit;

~~(8) Outpatient dialysis facilities.~~

~~Any portion of property owned by an organization which is used in a manner not furthering the purposes of the institution, (for example, hospital property used by a physician for private practice) must be segregated and taxed. (AGO 7-3-1935)~~

~~Property owned by an organization exempt under this rule which is irrevocably dedicated to the purposes of the organization is included in this exemption: *Provided*, That the organization can evidence irrevocable intent to put the property to a qualifying use. The forms of proof set forth in WAC 458-16-200 may be utilized for this purpose. To be exempted, the property must be in use or under construction which is designed for use.~~

~~The superintendent or manager of the organization claiming exemption under this statute shall allow the department of revenue access to the books and records of the organization and shall make, under oath, a report to the department showing that the income and receipts thereof, including donations to it, have been applied to the actual expenses of operating and maintaining it, or for its capital expenses and to no other purposes, also including a statement of the receipts and the disbursements of said organization.~~

~~An exemption may be granted to the real or personal property leased or rented by any organization, corporation, or association exempted under the provisions of RCW 84.36.040 and used exclusively by it: *Provided*, That the benefit of the exemption inures to the user. Such property must be specifically identified as leased in filing for exemption.~~

~~For the purposes of this rule a "hospital" is an organization primarily engaged in providing medical, surgical, nursing and/or related health care services in the prevention, diagnosis or treatment of human disease, pain, injury, disability, deformity or physical condition, or mental illness or retardation, and the equipment and facilities used by such organization to deliver such services on an inpatient basis. This definition shall include any portion of a hospital building, or other buildings used in connection therewith, and the equipment therein, operated as a portion of the hospital unit, or used as a residence for persons engaged or employed in the operation of a hospital.~~

~~(9) The loan or rental of this property does not subject the property to tax if (a) the rents and donations received for the use of the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented; and (b) the property would be exempt from tax if owned by the organization to which it is loaned or rented. (RCW 84.36.805) Maintenance and operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles.~~

~~(10) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:~~

~~(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization.~~

~~(b) The financial records of the exempt organization will identify all receipts and expenses of the programs.~~

~~(e) The program is compatible and consistent with the purposes of the exempt organization.~~

~~(d) A summary of all receipts and expenses of the program will be provided to the department upon request.~~

~~Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.~~

~~(11) The use of the property for fund raising activities sponsored by the exempt organization does not subject the property to tax if the fund raising activities are consistent with the purposes for which exemption is granted. The term "fund raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of the property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the organization.)~~

(1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.040 to property used by nonprofit day care centers, libraries, orphanages, homes for the sick or infirm, hospitals, and outpatient dialysis facilities.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Convalescent and chronic care" means any or all procedures commonly employed in caring for the sick including, but not limited to, administering medicines, preparing special diets, providing bedside nursing care, applying dressings and bandages, and carrying out any treatment prescribed by a duly licensed practitioner of the healing arts.

(b) "Day care center" means a facility that regularly provides care for a group of children for periods of less than twenty-four consecutive hours.

(c) "Home for the sick or infirm" means any home, place, or institution that operates or maintains facilities to provide convalescent or chronic care, or both, for three or more persons not related by blood or marriage to the operator, who by reason of illness or infirmity, are unable to properly care for themselves.

(i) The services must be provided to persons for a period in excess of twenty-four consecutive hours.

(ii) A boarding home, guest home, hotel, or similar institution that is held forth to the public as providing and supplying only room, board, or laundry services to persons who do not need medical or nursing treatment or supervision is not considered a "home for the sick or infirm" for purposes of this section.

(d) "Hospital" means a nonprofit organization, association, or corporation primarily engaged in providing medical, surgical, nursing or related health care services for the prevention, diagnosis or treatment of human disease, pain, injury, disability, deformity, mental illness, or retardation, as well as the equipment and facilities used by a nonprofit organization, association, or corporation to deliver such services to inpatients. These services must be provided for a period in excess of twenty-four consecutive hours.

(i) "Hospital" also means any portion of a hospital building, or other buildings used in connection therewith, and the equipment therein operated as a part of a hospital

unit or used as a residence for persons engaged or employed in the operation of a hospital.

(ii) "Hospital" does not mean:

(A) Hotels or similar places that furnish only food and lodging or simple domiciliary care;

(B) Clinics or physician's offices where patients are not regularly kept as bed patients for twenty-four consecutive hours;

(C) Nursing homes as defined in chapter 18.51 RCW; and

(D) Maternity homes as defined in 18.46 RCW.

(e) "Hospital unit" means all buildings or properties that are part of a homogeneous unit, contiguous to the main property, and exclusively used for exempt hospital purposes. The term includes residential units exclusively used to temporarily house families of inpatients in an integrated program of hospital therapy.

(f) "Property" means real or personal property used by a nonprofit organization, association, or corporation.

(3) Exemption for exclusively used property. All real and personal property exclusively used by a nonprofit organization, association, or corporation for the following institutions shall be exempt from taxation:

(a) Day care centers;

(b) Preschools;

(c) Free public libraries;

(d) Orphanages and orphan asylums;

(e) Homes for the sick or infirm;

(f) Hospitals for the sick including, but not limited to, any portion of the hospital building or other buildings used as a nurse's home, a residence for hospital employees, or operated as a portion of the hospital unit; and

(g) Outpatient dialysis facilities.

(4) Exemption for loaned or rented property. Property loaned to or rented by an institution listed in subsections (3)(a) through (f) of this section shall also be exempt from taxation if:

(a) The property is exclusively used by the nonprofit organization, association, or corporation;

(b) The benefit of the exemption inures to the user; and

(c) The property was specifically identified as loaned or rented when the application for exemption was made.

(5) Exclusive use required. Any portion of property exempt under either subsection (3) or (4) of this section that is not exclusively used in a manner furthering the exempt purposes of the nonprofit organization, association, or corporation must be segregated and taxed. For example, hospital property used by a physician to conduct his private practice must be segregated and taxed.

(6) Actual use and irrevocable dedication required. To be exempt from taxation under this section, all property owned by a nonprofit organization, association, or corporation must be:

(a) In use; and

(b) Irrevocably dedicated to the exempt purpose of the nonprofit organization, association, or corporation.

(7) Additional requirements. Any organization or association that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.040.

AMENDATORY SECTION (Amending Order PT 85-1, filed 2/15/85)

WAC 458-16-270 Schools and colleges. ((The property owned or used by any nonprofit school or college within this state shall be exempt to the extent that:

(1) The property is used for educational purposes, or cultural or art educational programs as defined in RCW 82.04.4328. The term "educational purposes" includes systematic instruction in any and all branches of learning from which a substantial public benefit is derived. In addition, the term "educational purposes" includes all purposes which seek to promote education:

(2) The real property so exempt shall not exceed four hundred acres in extent and except as provided in RCW 84.36.805 and subsections (6) and (8) of this section shall be used exclusively for college or campus purposes. College or campus purposes shall be construed to mean that the need for such property would be nonexistent, but for the presence of such school or college and the property is principally designed to further the educational functions of such college or schools. As used in this subsection, the term "educational functions" means any function, action, or activity sponsored by the nonprofit school, which promotes education or advances educational purposes:

(3) Institutions claiming exemption for property which is not a portion of the main campus must provide in detail when requested by the department of revenue:

- (a) The courses taught on site;
- (b) A calendar of uses; and
- (c) The number of students participating on site.

(4) The institution must be open to all persons on equal terms. However, there is no limitation on the types of courses which the institution may offer.

(5) For purposes of this exemption, "schools and colleges" will mean (a) those nonprofit educational institutions which are either accredited by the state or whose students and credentials are accepted without examination by schools and colleges established under Title 28A or 28B RCW and which offer to students an educational program of a general academic nature, or (b) those nonprofit institutions meeting the following criteria:

- (i) It must have a definable curriculum for a specific group with definable and measurable outcomes;
- (ii) It must have a qualified and/or certified faculty;
- (iii) It must have facilities and equipment that are designed for the primary purpose of the educational program;
- (iv) It must have an attendance specification;
- (v) It must have a schedule or course of study supporting the instructional curriculum;
- (vi) It must have accreditation or recognition by a professional association.

(6) The loan or rental of the property does not subject the property to tax if (a) the rents and donations received for the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the term and portion of the property loaned or rented; and (b) the property would be exempt from tax if owned by the organization to which it is loaned or rented. (RCW 84.36.805): *Provided, however,* That the loan or rental of school or college property to other nonprofit organizations, for periods of less than fifteen days shall not be subject to

~~the restrictions of this subsection so long as all income received therefrom is devoted exclusively to the support and maintenance of the school or college. Maintenance and operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles. Property of nonprofit schools owned, controlled, rented or leased for the purpose of deriving revenue from it, shall not be exempt and must be segregated and taxed whether or not such revenue is devoted to educational purposes. For purposes of this subsection the term "revenue" means income received by the school or college for the loan, lease, or rental of its property when such income exceeds the amount of the maintenance and operation expenses attributable to the term and portion of the property loaned or rented.~~

~~(7) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:~~

~~(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization:~~

~~(b) The financial records of the exempt organization will identify all receipts and expenses of the programs:~~

~~(c) The program is compatible and consistent with the purposes of the exempt organization:~~

~~(d) A summary of all receipts and expenses of the program will be provided to the department upon request.~~

~~Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.~~

~~(8) The use of the property for fund-raising activities sponsored by the exempt organization does not subject the property to tax if the fund-raising activities are consistent with the purposes for which exemption is granted. The term "fund-raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of school property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the school or college, or the use of school property for any educational purpose.~~

~~(9) Institutions claiming exemption within this rule shall allow the department of revenue access to all books and records of the institution and shall annually make, under oath, a report to the department showing that the income and receipts thereof, including donations to it, have been applied to the actual expenses of operating and maintaining it or for capital expenses for endowments, the income of which shall be used for the operation, maintenance or capital expenditures and to no other purpose, also including a statement of the receipts and disbursements of said organization. In addition, institutions claiming exemption under this rule shall submit a list of all property claimed to be exempt, the purpose for which it is used, the revenue derived from it during the preceding year, the use to which the revenue was applied, the number of students in attendance at the institution, the total revenues of the institution and the source from which they were derived, and the purposes to which such revenues were applied, giving the items of such revenues and expenditures in detail.)~~ (1) **Introduction.** This section

explains the property tax exemption available under the provisions of RCW 84.36.050 to property owned by or used for a nonprofit school or college.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Campus purposes" means property that is only needed because of the presence of the nonprofit school or college and is principally designed to further the educational purposes and functions of a nonprofit school or college.

(b) "Cultural or art education program" includes and is limited to:

(i) An exhibition or presentation of works of art or objects of cultural or historical significance, such as those commonly displayed in art or history museums;

(ii) A musical or dramatic performance or series of performances; or

(iii) An educational seminar or program, or series of such programs, offered by a nonprofit school or college to the general public on an artistic, cultural, or historical subject.

(c) "Educational purposes" means systematic instruction, either formal or informal, in any and all branches of learning directed to an indefinite class of persons and from which a substantial public benefit is derived. The term includes all purposes that seek to promote or advance education.

(d) "Schools and colleges" means:

(i) Nonprofit educational institutions that are approved by the superintendent of public instruction or whose students and credentials are accepted without examination by schools and colleges established under either Title 28A or 28B RCW and offer students an educational program of a general academic nature; or

(ii) Nonprofit institutions that meet the following criteria:

(A) They have a definable curriculum and measurable outcomes for a specific group of students;

(B) They have a qualified or certified faculty;

(C) They have facilities and equipment that are designed for the primary purpose of the educational program;

(D) They have an attendance policy and requirement;

(E) They have a schedule or course of study that supports the instructional curriculum; and

(F) They are accredited, recognized, or approved by an external agency that certifies educational institutions and the transferability of courses.

(e) "Revenue" means income received from the loan or rental of exempt property when the income exceeds the amount of the maintenance and operation expenses attributable to the portion of the property loaned or rented.

(3) Exemption. Property owned or used by any nonprofit school or college within this state shall be exempt to the extent that it is used exclusively for educational purposes or cultural or art educational programs.

(a) Real property exempt under this section shall not exceed four hundred acres and shall be used exclusively for school, college, or campus purposes. The property shall include, but is not limited to:

(i) Buildings and grounds principally designed for the educational, athletic, or social programs of the nonprofit school or college and the need for which would be nonexistent except for the existence of the school or college;

(ii) Buildings that house part-time or full-time students;

(iii) Buildings that house religious faculty; and

(iv) Buildings that house the chief administrator.

(b) All property that is not part of the main campus of a school or college and for which the institution wishes to obtain an exemption under this section, the department may require said institution to provide, in detail, the following information:

(i) The names of courses taught at the off-campus site;

(ii) A calendar of dates and times that shows how the subject property was used; and

(iii) The number of students that participated in the educational activities conducted at the off-campus site.

(c) To be eligible to receive this exemption, the nonprofit school or college must be open to all persons regardless of race, color, national origin, or ancestry. However, there is no limitation on the type of courses the institution may offer.

(4) Property leased to a nonprofit school or college. If property is leased to a nonprofit school or college, in order to be exempt, the property must be:

(a) Irrevocably dedicated to the purpose for which exemption has been granted; and

(b) The benefit of the exemption must inure to the user.

(c) For example, if a nonprofit foundation leases real or personal property to a nonprofit school or college to be used for educational purposes or cultural or art educational programs, the leased property may qualify for exemption if it meets the requirements of subsection (3)(a), (b), and (c) of this section.

(5) Production of financial records. In addition to the financial records that must be produced to comply with the requirements of WAC 458-16-165, a nonprofit school or college claiming exemption under this section shall annually submit a detailed summary containing the following information regarding the previous calendar year:

(a) A list of all property that it claimed was exempt;

(b) The purpose for which the property was used;

(c) The income derived from the property;

(d) The manner in which the income received was applied;

(e) The number of students who attended the school or college;

(f) The total revenue of the school or college and the sources from which it was derived; and

(g) The purposes to which the total revenue of the school or college was applied including, but not limited to, all income received and expenditures made.

(6) Additional requirements. Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.050.

AMENDATORY SECTION (Amending Order PT 86-2, filed 5/30/86)

WAC 458-16-280 Art, scientific, and historical collections(~~—Fire companies—Humane societies~~). (~~((1)—All art, scientific, or historical collections, together with all real and personal property used exclusively, except as provided~~

in RCW 84.36.805 and subsections (4) and (6) of this section, for the safekeeping, maintaining or exhibiting of such, which are maintained or exhibited for the general public and not for profit, shall be exempt from taxation under the following conditions:

(a) Such organization must be organized and operated exclusively for artistic, scientific, historical, literary or educational purposes, and

(b) Receive a substantial part of its income (exclusive of income received in the exercise or performance by such organization of its purpose or function) from the United States, any state or political subdivision thereof, or from direct or indirect contributions from the general public.

(2) Fire engines and other implements used to put out fires, and the buildings or fire stations to the extent that they are exclusively used for the safekeeping of such equipment, and to hold fire company meetings, shall be exempt, provided that such properties are owned by either a city, town or nonprofit fire company.

(3) Property within the state which is owned and actually used by humane societies shall be exempt.

(4) The loan or rental of the property does not subject the property to tax if (a) the rents and donations received for the use of the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented; and (b) the property would be exempt from tax if owned by the organization to which it is loaned or rented. (RCW 84.36.805): *Provided, however,* That the loan or rental of property to other nonprofit organizations, for periods of less than fifteen days shall not be subject to the restrictions of (a) of this subsection so long as all income received therefrom is devoted exclusively to exempt purposes. Maintenance and operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles. Property rented or leased for the purpose of deriving revenue from it, shall not be exempt and must be segregated and taxed whether or not such revenue is devoted to exempt purposes. For purposes of this subsection the term "revenue" means income received from the loan, lease or rental of property when such income exceeds the amount of the maintenance and operation expenses attributable to the term and portion of the property loaned or rented.

(5) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:

(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization.

(b) The financial records of the exempt organization will identify all receipts and expenses of the programs.

(c) The program is compatible and consistent with the purposes of the exempt organization.

(d) A summary of all receipts and expenses of the program will be provided to the department upon request.

Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.

(6) The use of the property for fund raising activities sponsored by the exempt organization does not subject the property to tax if the fund raising activities are consistent with the purposes for which exemption is granted. The term "fund raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of the property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the organization.) (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.060 to art, scientific, or historical collections.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Governmental entity" means any political unit or division of the federal, state, city, county, or municipal government.

(b) "Property" means all real and personal property exclusively used to secure, maintain, or exhibit art, scientific, or historical collections.

(3) **Exemption.** All art, scientific, or historical collections maintained for and exhibited to the general public and not for profit, as well as all real and personal property used exclusively to secure, maintain, or exhibit the collections, shall be exempt from taxation under the following conditions:

(a) An organization, association, or corporation must be organized and operated exclusively for artistic, scientific, historical, literary or educational purposes.

(b) The organization, association, or corporation organized and operated for artistic, scientific, historical, literary, or educational purposes must receive a substantial part of its income from a governmental entity or through direct or indirect contributions of real or personal property, or services from the general public. Admission or entrance fees derived from exercising or performing its purpose or function shall not be included within the figures used to calculate "a substantial part" of the organization's, association's, or corporation's income.

(i) For example, an art museum may receive support from a city government and from donations made by the general public in addition to general admission fees paid by visitors. When determining whether the art museum receives a substantial part of its income from a governmental entity or through contributions from the general public, the admission fees may not be used in the calculation.

(ii) Any organization, association, or corporation that relies on services donated by the general public for a substantial part for its support must maintain records identifying the individuals who donate their services and the number of hours they donate. The value of donated time will be calculated by using the federal minimum wage standard.

(4) **Additional requirements.** Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.060.

AMENDATORY SECTION (Amending Order PT 86-2, filed 5/30/86)

WAC 458-16-282 Musical, dance, artistic, dramatic and literary associations. ((The real and personal property owned by or leased to nonprofit organizations whose purpose is to produce and/or perform musical, dance, artistic, dramatic or literary works, for the benefit of the general public and not for profit. To be exempt the property must be used exclusively, except as provided for in RCW 84.36.805 and subsections (5) and (7) of this section, in accordance with the following rules:

(1) Must be organized and operated exclusively for the purpose of the exemption.

(2) Must receive a substantial portion of its support, exclusive of moneys received from admissions to its performances, from governmental entities or from direct or indirect contributions of money, real or personal property and/or services from the general public. Organizations relying on services donated by the general public to meet the substantial portion of its support, must maintain records identifying the individuals and the number of hours donated. Donated time will be valued under the federal minimum wage standards.

(3) Applications for leased property must include a copy of the lease agreement.

(4) The property meets all the conditions of RCW 84.36.800 through 84.36.865.

(5) The loan or rental of the property does not subject the property to tax if (a) the rents and donations received for the use of the portion of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented; and (b) the property would be exempt from tax if owned by the organization to which it is loaned or rented. (RCW 84.36.805): *Provided, however,* That the loan or rental of property to other nonprofit organizations, for periods of less than fifteen days shall not be subject to the restrictions of (a) of this subsection so long as all income received therefrom is devoted exclusively to exempt purposes. Maintenance and operating expenses means those items of rental expense as allowed and defined in generally accepted accounting principles. Property rented or leased for the purpose of deriving revenue from it, shall not be exempt and must be segregated and taxed whether or not such revenue is devoted to exempt purposes. For purposes of this subsection the term "revenue" means income received from the loan, lease or rental of property when such income exceeds the amount of the maintenance and operation expenses attributable to the term and portion of the property loaned or rented.

(6) Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:

(a) The contract is written to clearly reflect all receipts and expenses are to be administered by the exempt organization.

(b) The financial records of the exempt organization will identify all receipts and expenses of the programs.

(c) The program is compatible and consistent with the purposes of the exempt organization.

(d) A summary of all receipts and expenses of the program will be provided to the department upon request.

~~Programs provided under a personal service contract, whereby the contractor will reimburse the organization for expenses pertaining to the program will be viewed as a rental agreement between the exempt organization and an individual or for profit user and will subject that portion of property to tax.~~

~~(7) The use of the property for fund raising activities sponsored by the exempt organization does not subject the property to tax if the fund raising activities are consistent with the purposes for which exemption is granted. The term "fund raising" means any revenue raising activity limited to less than five days in length including but not limited to art auctions, use of the property by professional organizations for conferences, seminars, or other activities which enhance the reputation of the organization.))~~ (1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.060 to organizations, associations, or corporations that either produce or perform, or both, musical, dance, artistic, dramatic, or literary works.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Governmental entity" means any political unit or division of the federal, state, county, city, or municipal government.

(b) "Property" means all real and personal property exclusively used to produce or perform musical, dance, artistic, dramatic, or literary works.

(3) Exemption. All real and personal property owned by or leased to a nonprofit organization, association, or corporation whose purpose is either to produce or perform or to produce and perform musical, dance, artistic, dramatic, or literary works for the benefit of the general public and not for profit shall be exempt from taxation under the following conditions:

(a) The property must be used exclusively to produce or perform musical, dance, artistic, dramatic, or literary works.

(b) An organization, association, or corporation must be organized and operated exclusively for musical, dance, artistic, dramatic, literary, or educational purposes.

(c) The organization, association, or corporation organized and operated for musical, dance, artistic, dramatic, literary, or educational purposes must receive a substantial portion of its income from a governmental entity or through direct or indirect contributions of money, real or personal property, or services from the general public. Admission or entrance fees derived from exercising or performing its purpose or functions shall not be included within the figures used to calculate "a substantial part" of the organization's, association's or corporation's income.

(i) For example, a theater may receive support from a city government and from donations made by the general public in addition to ticket sales for admission to its performances. When determining whether the theater receives a substantial part of its income from a governmental entity or through contributions from the general public, the ticket sales may not be used in the calculation.

(ii) Any organization that relies on services donated by the general public for a substantial portion of its support must maintain records identifying the individuals who donate their services and the number of hours they donate. The value of donated time will be calculated by using the federal minimum wage standard.

(4) Additional requirements. Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.060.

AMENDATORY SECTION (Amending Order PT 77-2, filed 5/23/77)

~~WAC 458-16-290 Nature conservancy lands. ((The real property or leaseholds, exclusively used for the conservation of ecological systems or natural resources owned or held under contract purchase by any nonprofit corporation or association, the primary purpose of which is the conducting or facilitating of scientific research or the conserving of natural resources for the general public, shall be exempt under either of the following conditions:~~

~~(1) The property shall be used and effectively dedicated primarily for the purpose of providing scientific research or educational opportunities, or the preservation of native plants or animals or biotic communities, or works of ancient man, or geological or geographical formations of distinct scientific and educational interests, and shall be open to the general public subject to reasonable restrictions designed for its protection and not for the pecuniary benefit of any person or company; or~~

~~(2) That such property shall be subject to an option, accepted in writing, for the purchase thereof by the United States, the state, a county or a city at a price to be determined by the criteria set forth in RCW 84.36.260(2).~~

~~Property used merely for recreational activities does not qualify for an exemption.~~

~~Upon cessation of the use which has given rise to this exemption, the county treasurer shall collect all taxes which would have been paid had the property not been exempt during the ten years preceding, or the life of such exemption if such is less, together with interest at the same rate and computed in the same way as upon delinquent property taxes.~~

~~Such properties shall be subject to the provisions of WAC 458-16-150.))~~ (1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.260 to a nonprofit corporation or association, primary purpose of which is to conduct or facilitate scientific research or to conserve natural resources or open space for the general public.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Cessation of use" means a nonprofit organization, association, or corporation that has an interest in, or a nonprofit organization, association, or corporation that exclusively used exempt real property, has ceased to physically use the property for a use exempt under the provisions of subsection (3) of this section. The term also refers to the situation where the property is no longer being used for an exempt use even though the owner intends to find or is pursuing an alternative exempt use for the property. "Cessation of use" also refers to property that has lost its exempt status because it was transferred, loaned, or rented to

an entity that is not qualified to be exempt from ad valorem taxes.

(b) "Conservation futures" means rights in perpetuity to the future development of any open space land, farm and agricultural land, and timber land, so designated under the provisions of chapter 84.34 RCW and taxed at the current use assessment rate as provided by that chapter that are purchased or acquired (except by eminent domain) by a county, city, town, municipal corporation, nonprofit historic preservation corporation, or nonprofit conservancy corporation or association.

(c) "Governmental entity" means any political unit or division of the federal, state, county, city, or municipal government.

(d) "Nonprofit conservancy corporation or association" means an organization that qualifies as being tax exempt under 29 U.S.C. Sec. 501(c)(3) of the United States Internal Revenue Code as it existed on June 25, 1976, and that has as one of its principal purposes: The conducting or facilitating of scientific research; the conserving of natural resources, including but not limited to biological resources, for the general public; or the conserving of open spaces, including but not limited to wildlife or plant habitat to be utilized as public access areas, for the use and enjoyment of the general public.

(e) "Nonprofit historical preservation corporation" means an organization that qualifies as being tax exempt under 29 U.S.C. Sec. 501(c)(3) of the United States Internal Revenue Code of 1954, as amended, and has as one of its principal purposes the conducting or facilitating of historic preservation activities within a state including, but not limited to, the conservation or preservation of historic sites, districts, buildings, and artifacts.

(f) "Person or company" means any individual, receiver, administrator, executor, assignee, trustee in bankruptcy, trust, estate, firm, co-partnership, joint venture, club, company, joint stock company, business trust, municipal corporation, political unit or division of the state of Washington, corporation, association, society, or any group of individuals acting as a unit, whether mutual, cooperative, fraternal, nonprofit, or otherwise, and the United States and any instrumentality thereof.

(g) "Real property interests" means any interest in real property including, but not limited to, fee simple or a lesser ownership interest, developmental rights, easements, covenants, and conservation futures.

(h) "Rollback" refers to the provisions of RCW 84.36.262 that make previously exempt property subject to back taxes and interest because of the cessation of an exempt use or a change in ownership.

(3) Exemption. All real property interests exclusively used to conserve ecological systems, natural resources, or open space, including park lands, by a nonprofit organization, association, or corporation whose primary purpose is to conduct or facilitate scientific research or to conserve natural resources or open space for the general public shall be exempt from ad valorem taxation if either of the following conditions is met:

(a) The property, to the extent feasible considering the nature of the interest involved, is:

(i) Used and effectively dedicated primarily to providing scientific research or educational opportunities to the general

public or to preserving native plants, animals, biotic communities, works of ancient man, or geological or geographical formations of distinct scientific and educational interests;

(ii) Open to the general public for educational and scientific research purposes subject to reasonable restrictions designed to protect the property; and

(iii) Not for the pecuniary benefit of any person or company; or

(b) The property is subject to an option, which has been accepted in writing by any political unit or department of the federal, state, county, or city government, for purchase by the United States, a state, a county, or a city at a price not exceeding the lesser of the following amounts:

(i) The sum of the original purchase price paid by the nonprofit organization, association, or corporation plus interest from the date of acquisition at the rate of six percent per annum compounded annually to the date the option is exercised; or

(ii) The appraised value of the property interest, as determined by the department of revenue, at the time the option is accepted in writing.

(4) Property used for recreational activities. Property used merely for recreational activities does not qualify for an exemption under this section.

(5) Application for exemption under this section. A nonprofit organization, association, or corporation that wants to obtain the property tax exemption described in subsection (3) of this section must submit an application for exemption.

(a) No real property shall be exempt from taxation unless an application has been filed and exemption has been granted therefor.

(b) Prior to approval, the department of revenue must receive a copy of the application and, if the property is subject to an option for purchase, a copy of the option agreement and the written acceptance thereof.

(6) Cessation of exempt use. Upon cessation of the use that gave rise to the exemption set forth in subsection (3) of this section, the county treasurer shall collect all taxes that would have been paid if the property had not been exempt during the preceding ten years, or for the life of the exemption, whichever is less, plus interest computed at the same rate and in the same manner as that upon delinquent property taxes.

(a) Type of property affected. The provisions of this section apply to the cessation of use relating to exempt property:

(i) Used to provide scientific research or educational opportunities to the general public (RCW 84.36.260(1));

(ii) Used to preserve native plants, animals, biotic communities, works of ancient man, or geological or geographic formations of distinct scientific and educational interests (RCW 84.36.260(1)); or

(iii) Subject to an option for purchase by the United States, a state, a county, or a city (RCW 84.36.260(2)).

(b) Duty to notify.

(i) An owner of exempt property who knows of or who has information regarding a change in the use of exempt property shall notify the department of revenue of this change. An owner of exempt property must also report the loan or rental of all or a portion of the exempt property since loaning or renting this property may change the taxable status of exempt property.

(ii) Any other person who knows or has information regarding a change in use of exempt property shall notify the county assessor of any such change. The assessor, in turn, shall report this information to the department of revenue.

(iii) After being notified about a change in use of exempt property, the department may physically inspect the property to determine if the reported change has taken place.

(iv) After a change in use, the final determination of the taxable status of the subject property will be made by the department of revenue.

(c) Notice to owner. When it determines that a change in use has occurred, the department of revenue shall notify the current owner of exempt property and, in the case of a transfer, the previous legal owner of exempt property that the change in use may change the taxable status of the property and that the property may be subject to the rollback provisions set forth in subsection (6) of this section. The owner(s) of this property shall have thirty days from the date of the notice to submit any comments or information relevant to this change in use to the department. The department shall then issue a final determination about the taxable status of this property.

(d) County treasurer. Upon notification from the department of revenue that the exempt use of the property has ceased, the county treasurer shall compute the taxes payable, including interest computed at the same rate and in the same manner as that upon delinquent property taxes. The interest collected shall be placed in the county current expense fund.

AMENDATORY SECTION (Amending Order PT 81-14, filed 10/8/81)

WAC 458-16-300 Public meeting ((facilities)) Hall—Public meeting place—Community meeting hall. ~~((Real and personal property used exclusively for public assembly or meeting places shall be exempt from taxation in accordance with the following rules:~~

~~(1) In order to qualify, the following conditions must be met:~~

~~(a) It is owned by a nonprofit organization;~~
~~(b) The area to be exempted does not exceed one acre;~~
~~(c) The owning organization has publicized fee schedules, a policy on the availability, and any restrictions on the use of the facility;~~

~~(d) The rental fee charged does not exceed the maintenance and operating expenses created by the users thereof;~~

~~(e) It is not used to promote business or pecuniary gain, except fund raising activities conducted by nonprofit organizations; and~~

~~(f) The applicant has provided to the department on an annual basis:~~

~~(i) A schedule of all users and the purpose of their use for the previous year; and~~

~~(ii) A detailed statement of income and expenses for the previous year.~~

~~(2) Other community meeting halls whose owners schedule regular meetings of their organizations will also qualify for the exemption if they meet the conditions in subsection (1) of this section, and:~~

~~(a) The scheduled uses by the owner do not exceed twenty five percent of the useable time and such facility is~~

~~available for public gatherings and for meetings of other organizations or persons at all other times; and~~

~~(b) The facility is used for public gatherings an equal or greater number of times as the owning organization.~~

~~(3) Public gathering shall mean any gathering that is open to the general public and shall include meetings of organizations which allow attendance by nonmembers.~~

~~(4) Facilities used more than fifty percent of the time for meetings of organizations which disallow attendance by nonmembers do not qualify for this exemption.~~

~~(5) The loss of the exemption for a year will not subject the property to the provisions of RCW 84.36.810, provided that if the loss of the exemption was due to sale or transfer of the property or due to false information, RCW 84.36.810 shall apply.)~~ (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.037 for real and personal property owned by a nonprofit organization, association, or corporation and used exclusively as a public meeting hall, public meeting place, or community meeting hall.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Inadvertent use or inadvertently used" means any unintentional or accidental use of exempt property by an individual, organization, association, or a corporation to promote business activities through either carelessness, lack of attention, lack of knowledge, mistake, surprise, or neglect.

(b) "Public gathering" means any social function that the general public could, if invited, attend. For example, a public gathering includes, but is not limited to, a wedding, reception, funeral, reunion, or meeting of any organization, association, or corporation that is open to nonmembers. The term does not mean a meeting to which only members of a specific organization, association, or corporation are allowed to attend.

(c) "Maintenance and operation expenses" means items of expense allowed under generally accepted accounting principles.

(d) "Owner" means a nonprofit organization, association, or corporation.

(e) "Property" means real or personal property owned by a nonprofit organization, association, or corporation.

(3) **Exemption.** Real and personal property owned by a nonprofit organization, association, or corporation and used exclusively as a public assembly hall, public meeting place, or community meeting hall shall be exempt from taxation under the following conditions:

(a) **Exclusive use.** The property is used exclusively for public gatherings and is available to any individual, organization, association, or corporation that may desire to use the property. However, membership in a particular organization, association, or corporation shall not be a prerequisite to use the property.

(b) **Exemption for real property - area.** The area of real property exempt under this section shall not exceed one acre. This area shall include the building(s), the land under the building(s), and any additional area needed for parking.

(c) **Statement of availability and fees required.** The owner of the property shall prepare and make available upon request a schedule of fees, a policy on the availability of the facility, and any restrictions on the use of the facility. The owner may impose any conditions or restrictions reasonably

necessary to safeguard the property and to comply with the purposes of this exemption.

(d) **Annual summary required.** The owner shall provide the department of revenue a detailed summary containing the following information regarding the use during the preceding year of all property it claimed to be exempt under this section:

(i) The name of any person, organization, association, or corporation that used the property;

(ii) The date(s) on which the property was used;

(iii) The purpose for which the property was used;

(iv) The income derived from the rental of the property; and

(v) The expenses incurred relating to the use of the property.

(e) **Entities that schedule regular meetings.** Any property owned by a nonprofit organization, association, or corporation that schedules regular meetings of its members or shareholders will also qualify for this exemption if:

(i) The owner meets the conditions set forth in (a) through (d) of this subsection;

(ii) The owner does not use the property more than twenty-five percent of the useable time; and

(iii) The facility is used an equal number or greater number of times for public gatherings than the number of times it is used by the owner for gatherings not open to the general public.

(f) **Loan or rental of property.** The tax exempt status of the property will not be affected if it is loaned or rented and the amount of rent or donations collected for the use, loan, or rental of the exempt property:

(i) Is reasonable; and

(ii) Does not exceed the maintenance and operation expenses that are created by the corresponding use, loan, or rental.

(g) **Property not included within this exemption.** Property that is used more than fifty percent of the time by a nonprofit organization, association, or corporation that allows only members to attend its activities does not qualify for this exemption.

(4) **Use of property for pecuniary gain or to promote business activities.** If a public meeting hall, public meeting place, or community meeting hall exempt under subsection (3) of this section is used for pecuniary gain or to promote business activities, the property tax exemption will be lost for the assessment year in which the exempt property is so used. The exemption will not be lost if:

(a) The exempt property is used for pecuniary gain not more than three days a year; or

(b) The exempt property is inadvertently used by an individual, organization, association, or a corporation to promote business activities if the inadvertent use is not a pattern of use. A "pattern of use" is presumed when an inadvertent use of the property to promote business activities is repeated within the same assessment year or within two or more successive assessment years.

(5) **Additional requirements.** Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets forth additional conditions and requirements that must be

complied with to obtain a property tax exemption pursuant to RCW 84.36.037.

AMENDATORY SECTION (Amending Order PT 81-14, filed 10/8/81)

WAC 458-16-310 Community celebration facilities.

~~((Real and personal property used for community celebration events shall be exempt from taxation in accordance with the following rules:~~

- ~~(1) It is owned by a nonprofit organization;~~
- ~~(2) The area to be exempted does not exceed twenty-nine acres;~~
- ~~(3) The property has been primarily used for community celebration events for the last ten years;~~
- ~~(4) The purpose of the property is to provide a facility for the annual gathering;~~
- ~~(5) The owning organization has publicized fee schedules, a policy on the availability and any restrictions on the use of the facility;~~
- ~~(6) The rental fee charged does not exceed the maintenance and operating expenses created by the users thereof;~~
- ~~(7) It is not used to promote business or pecuniary gain, except fund raising activities conducted by nonprofit organizations;~~
- ~~(8) Any enclosed structures other than restroom facilities will not qualify; and~~
- ~~(9) The applicant has provided to the department on an annual basis:

 - ~~(a) A schedule of all users and the purpose of their use, for the previous year; and~~
 - ~~(b) A detailed statement of income and expenses for the previous year.)~~~~

(1) Introduction. This section explains the property tax exemption available under the provisions of RCW 84.36.037 for real and personal property owned by a nonprofit organization, association, or corporation and used primarily for annual community celebration events.

(2) Definitions. For purposes of this section, the following definitions apply:

(a) "Inadvertent use or inadvertently used" means any unintentional or accidental use of exempt property by an individual, organization, association, or corporation to promote business activities through either carelessness, lack of attention, lack of knowledge, mistake, surprise, or neglect.

(b) "Public gathering" means any social function that the general public could, if invited, attend. For example, a public gathering includes, but is not limited to, a wedding, reception, funeral, reunion, or meeting of any organization, association, or corporation that is open to nonmembers. The term does not mean a meeting to which only members of a specific organization, association, or corporation are allowed to attend.

(c) "Maintenance and operation expenses" means items of expense allowed under generally accepted accounting principles.

(d) "Property" means real or personal property owned by a nonprofit organization, association, or corporation.

(3) Exemption. Real and personal property owned by a nonprofit organization, association, or corporation and used primarily for annual community celebration events shall be exempt from taxation under the following conditions:

(a) Exemption for real property - area. The area of real property to be exempt shall not exceed twenty-nine acres.

(b) Primary use. The property has been primarily used for annual community celebration events for at least ten years.

(c) Essentially unimproved property. The property is essentially unimproved except for restroom facilities and covered shelters. A "covered shelter," for example, may consist of a covered area that is unenclosed but allows some protection from the elements or it may provide a sheltered eating area with or without a picnic table or outside grill, or both.

(d) Purpose. The purpose of the property is to provide a facility for an annual community celebration.

(e) Statement of availability and fees required. The owner of the property shall prepare and make available upon request a schedule of fees, a policy on the availability of the facility, and any restrictions on the use of the facility. The owner may impose conditions and restrictions that are reasonably necessary to safeguard the property and to promote the purposes of this exemption.

(f) Annual summary required. The owner shall annually provide the department of revenue a detailed summary containing the following information regarding the use during the preceding year of all property it claimed to be exempt under this section:

(i) The name of any person, organization, association, or corporation that used the property;

(ii) The date(s) on which the property was used;

(iii) The purpose for which the property was used;

(iv) The income derived from the rental of the property; and

(v) The expenses incurred relating to the use of the property.

(g) Loan or rental of property. The tax exempt status of the property will not be affected if it is loaned or rented and the amount of rent or donations collected for the use, loan, or rental of the exempt property:

(i) Is reasonable; and

(ii) Does not exceed the maintenance and operation expenses that are created by the corresponding use, loan, or rental.

(4) Use of property for pecuniary gain or to promote business activities. If a community celebration facility exempt under subsection (3) of this section is used for pecuniary gain or to promote business activities, the property tax exemption will be lost for the assessment year in which the exempt property is so used. The exemption will not be lost if:

(a) The exempt property is used for pecuniary gain not more than three days a year; or

(b) The exempt property is inadvertently used by an individual, organization, association, or a corporation to promote business activities if the inadvertent use is not a pattern of use. A "pattern of use" is presumed when an inadvertent use of the property to promote business activities is repeated within the same assessment year or within two or more successive assessment years.

(5) Additional requirements. Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165. WAC 458-16-165 sets

forth additional conditions and requirements that must be complied with to obtain a property tax exemption pursuant to RCW 84.36.037.

NEW SECTION

WAC 458-16-165 Conditions under which nonprofit organizations, associations, or corporations may obtain a property tax exemption. (1) **Introduction.** Nonprofit organizations, associations, and corporations may obtain a property tax exemption under the provisions of RCW 84.36.030, 84.36.035, 84.36.037, 84.36.040, 84.36.041, 84.36.043, 84.36.045, 84.36.047, 84.36.050, 84.36.060, 84.36.350, 84.36.480, and 84.36.550. To be exempt from property taxation, these nonprofit organizations, associations, or corporations must also comply with the requirements contained in RCW 84.36.805 and RCW 84.36.840. This section explains the conditions and requirements set forth in RCW 84.36.805 and 84.36.840. Property exempt under RCW 84.36.030 is not subject to the requirements of RCW 84.36.840.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Maintenance and operation expenses" means items of expense allowed under generally accepted accounting principles.

(b) "Revenue" means income received from the loan or rental of exempt property when the income exceeds the amount of the expenses of maintenance and operation attributable to the portion of the property loaned or rented.

(c) "Personal service contract" means a contract between a nonprofit organization, association, or corporation and an independent contractor under which the independent contractor provides a service on the organization's, association's, or corporation's tax exempt property. (See example contained in subsection (3)(c) of this section.)

(3) **Exclusive use.** Unless the applicable statute states otherwise, the exempt property shall be exclusively used for the actual operation of the nonprofit organization, association, or corporation that applied for and received the property tax exemption and the amount of exempt property shall not exceed an area reasonably necessary for that purpose.

(a) **Loan or rental of exempt property.** As a general rule, the loan or rental of the property or a portion of the property does not subject the property to taxation if the rents or donations received for the use of the property are reasonable and do not exceed the maintenance and operation expenses attributable to the portion of the property loaned or rented and the property would be exempt from tax if owned by the organization to which it is loaned or rented, except for property owned by organizations and societies of war veterans, public assembly halls, public meeting places, community meeting halls, and community celebration facilities.

(i) **Exception - loaned or rented for less than fifteen days.** If exempt property is loaned or rented the tax exempt status of the property will not be affected if:

(A) The property is loaned or rented for a period of fifteen consecutive days or less;

(B) The property is loaned or rented to another nonprofit organization, association, or corporation that would qualify for exemption if it owned the loaned or rented

property, unless the property is owned by organizations and societies of war veterans, public assembly halls, public meeting places, community meeting halls, and community celebration facilities; and

(C) All income received from the rental is devoted exclusively to the exempt purpose of the nonprofit organization, association, or corporation that receives the tax exemption.

(ii) **Loaned or rented to produce income.** If the property is loaned or rented and the lessor or lessee intends to produce revenue from the loan or rental, the subject property shall not be exempt. Property loaned or rented from which revenue is to be produced must be segregated and taxed whether or not the revenue is devoted to exempt purposes.

(iii) **Example.** If a room or floor within a building owned by a nonprofit hospital is rented to a social service agency and the social service agency intends to use this area to produce revenue, the rented portion of the building must be segregated from the remainder of the building that is being used for exempt purposes. The segregated and rented portion of the building will then be subject to ad valorem property taxes.

(b) **Fund-raising activities.** The use of exempt property for fund-raising activities sponsored by an exempt organization, association, or corporation does not subject the property to taxation if the fund-raising activities are consistent with the purposes for which the exemption was granted. The term "fund raising" means any revenue-raising activity limited to less than five days in length and that disburses fifty-one percent or more of the profits realized from the activity to the exempt nonprofit organization, association, or corporation that is holding the fund raising.

(i) **Example 1.** A nonprofit social service agency holds an art auction in the auditorium of its tax exempt facility to raise funds. Since the fund-raising activity is being held on exempt property, the activity must be less than five days in length and fifty-one percent of the profits must be disbursed to the social service agency.

(ii) **Example 2.** A nonprofit school has a magazine subscription drive to raise funds during which the subscriptions are sold door-to-door by students. Since the subscription drive is not being held on exempt property, the drive is not limited to less than five days and fifty-one percent of the profits from this fund-raising activity do not have to be remitted to the school.

(c) **Personal service contract - exempt programs.** Programs provided under a personal service contract will not jeopardize the exemption if the following conditions are met:

(i) The program is compatible and consistent with the purposes of the exempt organization, association, or corporation;

(ii) The exempt organization, association, or corporation maintains separate financial records as to all receipts and expenses related to the program; and

(iii) A summary of all receipts and expenses of the program will be provided to the department of revenue upon request.

(iv) **Example.** A nonprofit school may decide to offer aerobic classes to promote general health and fitness. All brochures and bulletins that advertise these classes must show that the school is sponsoring the classes. Under the terms of the contract between the nonprofit school and the

aerobic instructor, an independent contractor, the instructor must provide the classes for a predetermined fee. All fees collected from the participants of the classes must be received by the school; the school, in turn, will absorb all costs related to the classes.

(d) **Personal service contract - nonexempt programs.** Programs provided under a personal service contract (i) that require the contractor to reimburse the nonprofit organization for program expenses or (ii) in which the instructor is paid a fee based on the number of people that attend the program will be viewed as a rental agreement and will subject the property to ad valorem property tax.

(4) **Irrevocable dedication required.** The property must be irrevocably dedicated to the purpose for which the exemption was granted. Upon liquidation, dissolution, or abandonment by a nonprofit organization, association, or corporation, said property shall not directly or indirectly benefit any shareholder or individual except a nonprofit organization, association, or corporation that would be entitled to a property tax exemption if it applied for it.

Exception: If, under the terms of a loan or rental agreement, a nonprofit organization, association, or corporation receives the benefit of the property tax exemption, the property need not be irrevocably dedicated if it is loaned or rented to a nonprofit organization, association, or corporation for use as:

- (a) A nonprofit day care center (RCW 84.36.040);
- (b) A library (RCW 84.36.040);
- (c) An orphanage (RCW 84.36.040);
- (d) A home for the sick or infirm (RCW 84.36.040);
- (e) A hospital (RCW 84.36.040);
- (f) An outpatient dialysis facility (RCW 84.36.040);
- (g) A nonprofit home for the aging (RCW 84.36.041);
- (h) A nonpermanent shelter to low-income homeless persons or victims of domestic violence (RCW 84.36.043);

or

- (i) A facility used to produce or perform musical, dance, artistic, dramatic, or literary works (RCW 84.36.060).

(5) **No discrimination allowed.** The facilities located on and the services offered on the exempt property shall be available to all persons regardless of race, color, national origin, or ancestry.

(6) **Compliance with licensing or certification requirements.** The nonprofit organization, association, or corporation shall comply with all applicable licensing and certification requirements when a law or regulation of the federal, state, or local government requires it.

(7) **Property sold subject to an option to repurchase.** If property is sold to a nonprofit organization, association, or corporation subject to an option to repurchase by the seller, the property shall not qualify for exempt status.

(8) **Duty to produce financial records.** In order to determine whether an organization, association, or corporation is exempt under the provisions of chapter 84.36 RCW and before the exemption is renewed each year, the organization, association, or corporation claiming a property tax exemption under chapter 84.36 shall file a signed statement, made under oath, with the department of revenue on forms furnished by the director or his/her designee, that its income and receipts, including donations, have been applied to the actual expenses of maintenance and operation or for its capital expenditures and to no other purpose. This signed

statement shall also include a statement of the receipts and disbursements of the organization, association, or corporation.

(a) The provisions of this subsection do not apply to an organization, association, or corporation either applying for or receiving exemption under RCW 84.36.030.

(b) When an organization, association, or corporation has been granted exemption from ad valorem taxation, this signed statement must be submitted on or before April 1 each year. If this statement is not received on or before April 1, the department shall remove the tax exemption from the property. However, the department shall allow a reasonable extension of time for filing if the tax exempt organization, association, or corporation has submitted a written request for this extension on or before the required filing date and for good cause shown therein.

(9) **Caretaker's residence.** If a nonprofit organization, association, or corporation exempt under chapter 84.36 RCW employs a caretaker to provide either security or maintenance service and a caretaker's residence is located on exempt property, the residence may qualify for exemption if the following conditions are met:

(a) The caretaker's duties include regular surveillance, patrolling of the exempt property, and routine maintenance services;

(b) The size of the residence is reasonable and appropriate in light of the caretaker's duties and the size of the exempt property; and

(c) The caretaker receives the use of the residence as part of his or her compensation and does not pay rent. Reimbursement of utilities expenses created by the caretaker's presence will not be considered as rent.

NEW SECTION

WAC 458-16-245 Student loan agencies. (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.030(6) to a nonprofit organization, association, or corporation that is exempt from federal income taxation and either guarantees student loans or issues debt to provide or acquire student loans.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Student loan agency" means a nonprofit organization or association that is exempt from federal income tax under section 501(c)(3) of the Federal Internal Revenue Code of 1954 (as amended) and:

(i) Is a guarantee agency under the federal guaranteed student loan program; or

(ii) Issues debt to provide or acquire student loans.

(b) "Property" means real or personal property owned by a nonprofit organization, association, or corporation that qualifies as a "student loan agency."

(c) "Commercial" refers to an activity or enterprise that has profit making as its primary purpose.

(3) **Exemption.**

(a) Property owned and used by a nonprofit organization, association, or corporation that is a guarantee agency under the federal guaranteed student loan program or that issues debt to provide or acquire student loans is exempt from taxation.

(b) If any portion of the organization's, association's, or corporation's property is used for a commercial rather than an exempt purpose that portion must be segregated and taxed.

(4) **Additional requirements.** Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165 that explains the additional conditions and requirements necessary to obtain a property tax exemption pursuant to RCW 84.36.030.

NEW SECTION

WAC 458-16-284 Fire companies. (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.060 to fire companies.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Fire company" means any nonprofit organization, association, or corporation whose purpose is to extinguish or prevent fires in any city or town within the state of Washington.

(b) "Property" means real or personal property that is owned by a city, town, or nonprofit fire company.

(c) "Commercial" refers to an activity or enterprise that has profit making as its primary purpose.

(3) **Exemption.** The following property shall be exempt from property taxes if it is owned by a city, town, or nonprofit fire company located within a city or town:

(a) All fire engines and other equipment used to extinguish or fight fires;

(b) Buildings or other structures that are exclusively used, or to the extent that they are exclusively used, to store or to safeguard fire fighting equipment; and

(c) Buildings or other structures that are exclusively used, or to the extent they are exclusively used, for meetings of the fire company. If any portion of the fire company's property is used for a commercial rather than an exempt purpose that portion must be segregated and taxed.

(4) **Additional requirements.** Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165 that explains the additional conditions and requirements necessary to obtain a property tax exemption pursuant to RCW 84.36.060.

NEW SECTION

WAC 458-16-286 Humane societies. (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.060 to humane societies.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Humane society" means a nonprofit organization, association, or corporation, the primary purpose of which is to prevent cruelty to animals, place unwanted animals in homes, provide other services relating to "lost and found" pets, and provide animal care education to the public, as well as sponsoring a neutering program to control the animal population.

(b) "Actual use" means that the property is currently being used by a humane society to provide services or care

related to homeless animals or "lost and found" pets, or to prevent cruelty to animals within the state.

(c) "Property" means real or personal property that is owned and is actually used by a humane society.

(d) "Commercial" refers to an activity or enterprise that has profit making as its primary purpose.

(3) **Exemption.** Property that is owned and in actual use by a humane society shall be exempt from taxation. Any portion of this property that is not in actual use by the humane society or that is used for a commercial rather than an exempt purpose must be segregated and taxed.

(4) **Additional requirements.** Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165 that explains the additional conditions and requirements necessary to obtain a property tax exemption pursuant to RCW 84.36.060.

NEW SECTION

WAC 458-16-320 Emergency or transitional housing. (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.043 to real and personal property used by a nonprofit organization, association, or corporation to provide emergency or transitional housing to low income persons or victims of domestic violence who are homeless for personal safety reasons.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Emergency housing" means a facility whose primary purpose is to provide temporary or transitional shelter and supportive services to the homeless in general or to a specific population of the homeless for no more than sixty days.

(b) "Homeless" means a person, persons, family, or families who do not have fixed, regular, adequate, or safe shelter nor sufficient funds to pay for such shelter.

(c) "Low-income" means income that does not exceed eighty percent of the median income for the standard metropolitan statistical area in which the city or town is located.

(d) "Supportive services" means resume writing, training, vocational and psychological counselling, or other similar programs designed to assist the homeless into independent living.

(e) "Transitional housing" means a facility that provides housing and supportive services to homeless individuals or families for up to two years and whose primary purpose is to enable homeless individuals or families to move into independent living and permanent housing.

(f) "Victim(s) of domestic violence" means either an adult(s) or a child(ren) who have been physically or mentally abused and who fled his or her home out of fear for his or her safety.

(g) "Property" means real or personal property used by a nonprofit organization, association, or corporation in providing emergency or transitional housing and supportive services for low-income homeless persons or victims of domestic violence.

(h) "Commercial" refers to an activity or enterprise that has profit making as its primary purpose.

(3) **Exemption.** The real and personal property exclusively used, or to the extent that it is exclusively used, by a nonprofit organization, association or corporation to provide emergency or transitional housing to low-income homeless persons or victims of domestic violence shall be exempt from taxation if the following conditions are met:

(a) The amount of the charge or fee for the housing does not exceed maintenance and operation expenses;

(b) The property is either:

(i) Owned by a nonprofit organization, association, or corporation; or

(ii) For taxes payable in 1992 through 2000, rented or leased by a nonprofit organization, association, or corporation and the benefit of the exemption inures to a nonprofit organization, association, or corporation; and

(c) If any portion of the organization's, association's or corporation's property is used for a commercial purpose rather than for an exempt purpose, that portion of the property must be segregated and taxed.

(4) **Additional requirements.** Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165 that explains the additional conditions and requirements necessary to obtain a property tax exemption pursuant to RCW 84.36.043.

NEW SECTION

WAC 458-16-330 Sheltered workshops for the handicapped. (1) **Introduction.** This section explains the property tax exemption available under the provisions of RCW 84.36.350 to real and personal property owned by a nonprofit organization, association, or corporation and used in operating a sheltered workshop for handicapped persons.

(2) **Definitions.** For purposes of this section, the following definitions apply:

(a) "Handicapped person" means an individual who is physically, mentally, or developmentally disabled. For purposes of this section, a substance, either drug or alcohol, abuser is considered physically disabled.

(b) "Sheltered workshop" means a facility, or any portion thereof, operated by a nonprofit organization, association, or corporation where business activities are carried on and whose primary purpose is:

(i) To provide gainful employment or rehabilitative services to the handicapped as an interim step in the rehabilitation process to individuals who cannot be readily absorbed into the competitive labor market or during such time as employment opportunities for them in the competitive labor market do not exist; or

(ii) To provide evaluation and work adjustment services to handicapped individuals.

(c) "Property" means real or personal property owned and used by a nonprofit organization, association, or corporation in operating a sheltered workshop for handicapped persons.

(d) "Commercial" refers to an activity or enterprise that has profit making as its primary purpose.

(3) **Exemption.** The real or personal property owned and used by a nonprofit organization, association, or corporation in connection with the operation of a sheltered workshop for handicapped persons and used primarily to manu-

facture and handle, sell, or distribute goods constructed, processed, or repaired in a sheltered workshop is exempt from ad valorem taxation.

(a) Inventory owned by a sheltered workshop is also exempt from taxation if the inventory is for sale or lease by the sheltered workshop or the inventory is to be furnished under a contract of service. For example, "inventory" includes, but is not limited to, raw materials, work in process, and finished products.

(b) The primary use of any property exempt under this section must be to provide training, gainful employment, or rehabilitation services to persons who meet the definition of "handicapped person" contained in subsection (2) of this section.

(c) **Example.** A sheltered workshop that teaches trade skills and work habits to the blind so that trainees might enter the competitive labor market may qualify for this exemption. This workshop may also qualify if it provides training in recreational activities and living skills, such as housekeeping and cooking.

(d) If any portion of the organization's, association's, or corporation's property is used for a commercial purpose rather than for an exempt purpose, that portion of the property must be segregated and taxed.

(4) **Cross reference to excise tax exemption.** A nonprofit organization, association, or corporation that receives a property exemption under RCW 84.36.350 may also be exempt from certain excise taxes. See RCW 82.04.385 for more specific information.

(5) **Additional requirements.** Any organization, association, or corporation that applies for a property tax exemption under this section must also comply with the provisions of WAC 458-16-165 that explains the additional conditions and requirements necessary to obtain a property tax exemption pursuant to RCW 84.36.350.

WSR 94-01-171

PROPOSED RULES

DEPARTMENT OF ECOLOGY

[Order 91-63—Filed December 21, 1993, 4:30 p.m.]

Original Notice.

Title of Rule: Chapter 173-180A WAC, Facility oil handling operations and design standards.

Purpose: To implement the provisions of RCW 909.56.220 [90.56.220], to establish onshore and offshore facility operations and design standards to minimize the size and impact of spills which do occur and provide improved protection of Washington waters.

Statutory Authority for Adoption: RCW 90.56.220.

Statute Being Implemented: RCW 90.56.220.

Summary: The Department of Ecology is required by RCW 90.56.220, to establish standards for operations and design standards for facilities which handle oil (as defined by RCW 90.56.010).

Reasons Supporting Proposal: To provide minimum oil spill prevention operations and design standards.

Name of Agency Personnel Responsible for Drafting: Joe Subits, Ecology Headquarters, P.O. Box 47600, (206) 407-6965; Implementation and Enforcement: Greg Sorlie, Ecology Headquarters, P.O. Box 47600, (206) 407-6977.

Name of Proponent: Department of Ecology, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule will require facilities which handle oil (as defined by RCW 90.56.010) to meet minimum standards in the operation and design of those facilities. At a minimum these standards, when followed, are expected to help minimize the likelihood that facility oil spills will occur, minimize the size and impact of spills which do occur and provide improved protection of Washington waters and natural resources from the impacts of oil spills.

Proposal does not change existing rules.

Small Business Economic Impact Statement

Introduction: Two new rules affecting oil handling facilities are being proposed by the Department of Ecology (ecology). Facility oil handling operations and design standards, chapter 173-180A WAC, and Facility oil handling operations manual standards, 173-180B WAC. These rules are intended to prevent oil spills from the facilities. Each of the rules will create economic impacts for oil handling facilities. The largest costs will be imposed by the following parts of the rules.

Operations: Both standards will increase the cost of operations. Most of the cost increase will be due to the facility oil handling operations and design standards.

API 653: The American Petroleum Institute developed a protocol for inspection of tanks. It is designed to determine the rate of decline for tanks and to allow problems to be identified early. Several of the companies have begun to use this inspection process already.

Tank Alarms: Installation of overfill alarms on tanks would prevent them from being overfilled. This is expensive for companies that have used visual inspection of outside gauges, which have large numbers of small tanks.

Secondary Containment: Secondary containment improvements to prevent leaks and oil escaping.

Pipelines: Leak detection and cathodic protection for pipes that cannot be inspected visually on a regular basis during oil transfers.

Some of the requirements will also prolong the useful life of equipment and reduce the net cost of the rules.

Economic Impact: The proposed rule has been reviewed and found to affect all of the facilities that provide refining of oil in Washington and many of the facilities that provide oil transfers. The impact is disproportionate. Preparation of an SBEIS is required by the Regulatory Fairness Act.

The Governor's Efficiency Commission requires ecology to estimate the total cost of a rule. For these rules, the estimates vary based on the assumptions used. Operating costs were not well reported and are a large component of this rule. Some companies were unable to estimate the cost of parts of the rules. Ecology has adjusted for these problems to develop values that are conservative in that they may overstate the cost of the rule. The estimates fall into a broad range of \$50 to \$110 million for the state as a whole. These values assume 100% compliance within 5 years.

The following table is based on costs reported by the companies. Companies have been divided based on their

reported employment figures rather than the capacity of the facility. The employment figures reported are higher than industry averages reported in the census or to Washington State Employment Security. The sample may thus be biased in terms of larger costs reported by larger organizations.

Comparison of companies costs

| | Small Companies | Companies not reporting employment* | Large companies |
|---------------------------|-----------------------|-------------------------------------|-------------------------|
| Number of companies | 9 | 9 | 10 |
| Average costs | \$1,432,000 | \$1,872,000 | **\$8,150,000 |
| Cost range | \$19,643 to 5,315,492 | \$53,253 to 7,500,000 | \$443,417 to 32,894,897 |
| Average employment | 17 | 350 | 735 |
| Average cost per employee | \$86,000 | \$5,000 | \$11,000 |

*used average overall reported employment
**includes a high outlier

The rule has been found to have an impact in the following three digit SIC codes:

Average Employment Industries* Affected by the Facility Operations and Design Standards Rule

| SIC | INDUSTRY | EMPLOYMENT *** | |
|-----|--|-----------------|-----------------|
| | | Small Companies | Large Companies |
| 291 | Petroleum Refining | 9 | 272 |
| 295 | Asphalt Paving and Roofing Materials** | 22 | 165 |
| 299 | Miscellaneous Petroleum and Coal Products** | 12 | 99 |
| 461 | Pipelines, Except Natural Gas** | 6 | NA |
| 517 | Petroleum and Petroleum Products Wholesale Trade | 6 | 65 |

- * Small distributors may have another SIC classification.
- ** Data from County Business Patterns, 1990 Census.
- *** Other data from Washington State Department of Employment Security.

Cost Minimizing Features of the Rules: The regulations were written with the help of a technical advisory committee, thus the design and operation requirements are intended to reduce risk from the dominant sources of spills. The following features are the primary cost minimizing features of the regulations.

Performance based requirements: Most of the requirements are based on performance rather than being specific. This will allow each company to respond more flexibly to the risks at their facilities.

Existing industry recommendations: The requirements of the regulations were drawn from industry recommendations. As a result many companies already comply with substantial portions of the rules.

Compliance schedules: Compliance schedules will allow companies to phase in new purchases and efforts over time. This is likely to benefit small companies with less access to capital markets.

New construction: Some of the requirements only apply to new construction. This will prevent the early retirement of sound equipment.

For a copy of the full SBEIS please contact Joe Subsits at (206) 407-6965: Spills Program, Department of Ecology, Mailstop 47600, P.O. Box 47600, Olympia, WA 98504-7600.

Hearing Location: On January 26, 1994, at 7:00 - 9:00 p.m., Ecology Headquarters Auditorium, 300 Desmond Drive, Lacey, WA; on January 27, 1994, at 7:00 - 9:00 p.m., Anacortes City Council Chambers, 6th and Q Avenue, Anacortes, Washington; and on February 1, 1994, at 7:00 - 9:00 p.m., Puget Sound Power and Light Building, 10608 N.E. 4th Street, Bellevue, WA.

Submit Written Comments to: Joe Subsits, Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600, by February 8, 1994.

Date of Intended Adoption: April 28, 1994.

December 21, 1993

Mary Riveland
Director

Chapter 173-180A WAC FACILITY OIL HANDLING OPERATIONS AND DESIGN STANDARDS

NEW SECTION

WAC 173-180A-010 Purpose. The purpose of this rule is to establish facility operations and design standards which, when followed, will:

- (1) Prevent oil and petroleum spills from occurring;
- (2) Ensure that facilities are designed and operated in a manner which will provide the best achievable protection of the public health and the environment;
- (3) Provide improved protection of Washington waters and natural resources from the impacts of oil spills caused by improper oil handling equipment design and operations.

NEW SECTION

WAC 173-180A-020 Authority. RCW 90.56.220 provides statutory authority for developing operations and design standards and implementing a compliance program established by this chapter.

NEW SECTION

WAC 173-180A-030 Definitions. "Appropriate person" means a person designated by the facility as being competent and trained to implement a designated function.

"Best achievable protection" means the highest level of protection that can be achieved through the use of the best achievable technology and those staffing levels, training procedures, and operational methods that provide the greatest degree of protection available. The director's determination of best achievable protection shall be guided by the critical need to protect the state's natural resources and waters, while considering: The additional protection provided by the measures; the technological achievability of the measures; and the cost of the measures.

"Best achievable technology" means the technology that provides the greatest degree of protection taking into consideration: Processes that are being developed, or could feasibly be developed, given overall reasonable expenditures on research and development; and processes that are currently in use. In determining what is best achievable technology, the director shall consider the effectiveness, engineering feasibility, and commercial availability of the technology.

"Board" means the pollution control hearings board.

"Bulk" means material that is stored or transported in a loose, unpackaged liquid, powder, or granular form capable of being conveyed by a pipe, bucket, chute, or belt system.

"Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, greater than three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

"Covered vessel" means a tank vessel, cargo vessel, or passenger vessel.

"Department" means the department of ecology.

"Directly impact" means without treatment.

"Director" means the director of the department of ecology.

"Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

"Emergency shutdown" means a deliberate stoppage of equipment or facility operation under circumstances requiring immediate action to prevent or reduce loss of life, injury, oil spills or significant damage to or loss of property or environmental values.

Facility:

"Facility" means any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that transfers oil in the bulk to or from a tank vessel or pipeline, that is used for producing, storing, handling, transferring, processing, or transporting oil in bulk.

A facility does not include any: Railroad car, motor vehicle, or other rolling stock while transporting oil over the highways or rail lines of this state; underground storage tank regulated by the department or a local government under chapter 90.76 RCW; a motor vehicle motor fuel outlet; a facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330; or a marine fuel outlet that does not dispense more than three thousand gallons of fuel to a ship that is not a covered vessel, in a single transaction.

"Facility person in charge" means the person designated under the provisions of 33 C.F.R 154.710.

"Navigable waters of the state" means those waters of the state, and their adjoining shorelines, that are subject to the ebb and flow of the tide and/or are presently used, have been used in the past, or may be susceptible for use to transport intrastate, interstate, or foreign commerce.

"Immediate threat" means threat which could cause loss of life, reduce safety or adversely impact waters of the state or environment.

"Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil, including oil contaminated ballast or bilge water. Oil does not include any substance listed in Table 302.4 of 40 C.F.R. Part 302 adopted August 14, 1989, under section 101(14) of the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

"Offshore facility" means any facility, as defined in this section, located in, on, or under any of the navigable waters of the state, but does not include a facility any part of which

is located in, on, or under any land of the state, other than submerged land.

"Onshore facility" means any facility, as defined in this section, any part of which is located in, on, or under any land of the state, other than submerged land, that because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters of the state or the adjoining shorelines.

Owner or operator:

"Owner or operator" means: In the case of a vessel, any person owning, operating, or chartering by demise, the vessel; in the case of an onshore or offshore facility, any person owning or operating the facility; and in the case of an abandoned vessel or onshore or offshore facility, the person who owned or operated the vessel or facility immediately before its abandonment.

"Operator" does not include any person who owns the land underlying a facility if the person is not involved in the operations of the facility.

"Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

"Pipeline operator" means the operator of a transmission pipeline.

"Process pipelines" means a pipeline used to carry oil within the oil refining/processing units of a facility, process unit to tankage piping and tankage interconnecting piping. Process pipelines do not include pipelines used to transport oil to or from a tank vessel or transmission pipeline.

"Secondary containment" means containment systems which prevent any materials discharged from reaching the waters of the state.

"Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

"Spill" means an unauthorized discharge of oil which enters waters of the state.

"State" means the state of Washington.

"Storage tank" means all aboveground containers connected to transfer pipelines or any aboveground containers greater than ten thousand gallons (two hundred thirty-eight barrels), including storage and surge tanks, used to store bulk quantities of oil. Storage tanks do not include those tanks regulated by chapter 90.76 RCW, rolling stock, wastewater treatment equipment, process pressurized vessels or other tanks used in the process flow through portions of the facility.

"Tankage interconnecting piping" means buried or aboveground piping used to carry oil between storage tanks.

"Tank vessel" means a ship that is constructed or adapted to carry, or that carries, oil in bulk as cargo or cargo residue, and that:

Operates on the waters of the state; or

Transfers oil in a port or place subject to the jurisdiction of this state.

"Transmission pipeline" means a pipeline whether interstate or intrastate, subject to regulation by the United States Department of Transportation under 49 C.F.R. 195, as amended through December 5, 1991, through which oil moves in transportation, including line pipes, valves, and other appurtenances connected to line pipe, pumping units, and fabricated assemblies associated with pumping units.

"Transfer" means any movement of oil between a tank vessel or transmission pipeline and the facility.

"Transfer pipeline" is a buried or aboveground pipeline used to carry oil between a tank vessel or transmission pipeline and the first valve inside secondary containment at the facility provided that the drainage outside secondary containment will not directly impact waters of the state. A transfer pipeline includes valves, and other appurtenances connected to the pipeline, pumping units, and fabricated assemblies associated with pumping units. A transfer pipeline does not include process pipelines, transmission pipelines, tank vessel or storage tanks. Instances where the transfer pipeline is not well defined will be determined on a case-by-case basis.

"Vessel person in charge" means the person designated under the provisions of 33 C.F.R. 155.700.

"Waters of the state" include lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches and land adjoining the seacoast of the state, sewers, and all other surface waters and water-courses within the jurisdiction of the state of Washington.

NEW SECTION

WAC 173-180A-040 Applicability. Onshore and offshore facilities shall meet the requirements of this section. This rule does not apply to portions of a facility regulated by 49 C.F.R. 195.

NEW SECTION

WAC 173-180A-050 Compliance schedule. (1) Facilities which will fully comply with this rule within thirty-six months of the effective date need to notify the state in writing that they will do so.

(2) Facilities needing additional time to comply with this rule must obtain written approval from the department extending this date and submit a proposed compliance schedule to the department within eighteen months of the effective date of this rule subject to the following provisions:

(a) Compliance schedules must include a justification of need for additional time. Facilities shall cite the specific requirements of this rule which will be addressed by the proposed compliance schedule.

(b) Compliance schedules shall contain progress dates for the commencement and completion of projects leading to the ultimate compliance with the provisions of this rule.

(c) Only requirements which cannot be met within thirty-six months of the effective date of this rule need to be identified in the compliance schedule.

(d) Compliance schedules which do not meet the definition of best achievable protection will not be approved by the department.

(e) It shall be legal to operate a facility if a proposed compliance schedule has been submitted to the department and the department has not provided the facility with a formal response.

(3) Facilities with approved compliance schedules must:

(a) Meet all requirements of this rule not specifically addressed in the compliance schedule.

(b) Submit a progress report to the department every six months following the compliance schedule approval date.

(c) Meet all compliance schedule dates unless written approval is received from the department.

(4) Facilities constructed thirty-six months after the adoption date of this rule shall meet the provisions of this rule. Facilities under design or construction at the time of the adoption of this rule shall be in compliance within thirty-six months of the adoption date.

NEW SECTION

WAC 173-180A-060 Vessel transfer requirements.

General requirements.

(a) No person shall conduct an oil transfer operation to or from a tank vessel unless the facility person in charge (FPIC) and the vessel person in charge (VPIC) have:

(i) Conducted a pretransfer conference as described in 33 C.F.R. 156.120(w) as amended on September 4, 1990;

(ii) Ensured that transfer connections have been made as specified in 33 C.F.R. 156.130 as amended on September 4, 1990;

(iii) Completely filled out and signed the declaration of inspection as required by 33 C.F.R. 156.150 as amended on September 4, 1990.

(iv) Established adequate communication in English between the vessel and the facility in accordance with 33 C.F.R. 154.560 as amended on September 4, 1990.

(v) Ensured that the available capacity in the receiving tank(s) is (are) greater than the volume of oil to be transferred and all other tank fill valves are properly aligned.

(b) The operator shall ensure that the designated storage tanks are receiving oil at the prescribed rate.

(c) The department may require a twenty-four hour advance notification with updates to the department of any anticipated transfer of bulk oil by a facility operator for the purpose of scheduling inspections. The department shall notify the facility in writing when this procedure will be required.

(d) Transfer operations shall be supervised by the appropriate person in charge in accordance with 33 C.F.R. 156.160 as amended on September 4, 1990.

(e) Each FPIC shall ensure that the means of operating the emergency shutdown is immediately available while oil is being transferred between the facility and the vessel.

(f) Transfer equipment requirements shall meet the conditions of 33 C.F.R. 154.500 through 33 C.F.R. 154.545 as amended on September 4, 1990.

(g) Transfer equipment shall be tested in accordance with procedures identified in 33 C.F.R. 156.170 as amended on September 4, 1990. Transfer hoses shall be tested every twelve months in accordance with the procedures identified by the RMA/IP-11-4, *Rubber Manufacturers Association Manual for Maintenance, Testing and Inspection of Hose* dated 1987 or the manufacturer's recommendations for testing.

(h) All transfer operations shall be in accordance with operations manuals approved under chapter 173-180B WAC.

(i) The FPIC shall refuse to initiate or shall cease transfer operations with any vessel which has not provided complete information as required by the declaration of inspection, has refused to correct deficiencies identified by the FPIC during the pretransfer conference, or does not follow the facility operations manual or facility requirements.

(2) Oil spills.

(a) Any person conducting an oil transfer shall stop the transfer operation whenever oil from any source associated with the transfer is spilled into the water, or discharged onto the facility deck or dock outside secondary containment, or upon the shoreline adjoining the transfer area.

(b) Transfer operations may not resume after a spill until:

(i) Notification has been made in accordance with RCW 90.56.280; and

(ii) The FPIC and the VPIC have determined that there is no longer an immediate threat to waters of the state or public health.

(c) The department may require that transfer operations stopped under subsection (2)(a) of this section may not resume unless authorized by the department.

(3) Suspension of transfer operations for immediate threat.

(a) The director may order a facility to suspend transfer operations if there is a condition requiring immediate action to prevent the discharge or threat of discharge of oil or to protect the public health and safety, and the environment.

(b) An order of suspension may be made effective immediately.

(c) An order of suspension shall specify each condition requiring immediate action.

(d) The transfer operation shall remain suspended until the director has determined that the need for immediate action is no longer necessary and has notified the facility operator of that determination.

(e) The director shall notify the facility operator as soon as possible of the determination that the need for immediate action is no longer necessary.

(f) The facility operator may petition the pollution control board, in writing or in any other manner, to reconsider an order of suspension.

NEW SECTION

WAC 173-180A-070 Transmission pipeline transfer requirements. (1) General requirements.

(a) No person shall conduct an oil transfer operation to or from a transmission pipeline unless the appropriate person and the pipeline operator have:

(i) Conducted pretransfer communications which identify:

(A) Type of oil;

(B) Transfer volume;

(C) Flow rates;

(D) Transfer startup or arrival time;

(ii) Facilities which receive oil from a transmission pipeline must:

(A) Confirm that the proper manifold and valves are open and ready to receive product;

(B) Notify the transmission pipeline operator when a storage tank has less than one foot of oil above the inlet nozzle;

(C) Coordinate arrival time of oil with the pipeline operator;

(D) Confirm the available storage capacity for transfers to a facility;

(E) Ensure that only the designated tank(s) is (are) receiving oil.

(iii) Ensured that proper transfer alignment of the pipeline, valves, manifolds and storage tanks have been made.

(iv) Established adequate communication in English between the facility and pipeline operator.

(b) The department may require a twenty-four hour notification to the department in advance of any transfer of bulk oil by a facility operator for the purpose of scheduling inspections. The department shall request notification in writing when this procedure is required.

(c) Transfer operations shall be supervised by the appropriate person.

(d) Each facility operator shall ensure that the means of operating or requesting emergency shutdown is immediately available while oil is being transferred between the facility and the pipeline.

(e) If startup, shutdown, and/or emergency shutdown are controlled by the pipeline operator directly using instrumentation and control devices, the accuracy of these devices shall be checked annually.

(f) All transfer operations shall be in accordance with operations manuals approved under chapter 173-180B WAC.

(2) Oil spills.

(a) Any person conducting an oil transfer shall stop the transfer operation whenever oil from any source associated with the transfer is spilled into the water or upon the adjoining shoreline in the transfer area.

(b) Transfer operations may not resume after a spill until:

(i) The proper notification has been made in accordance with RCW 90.56.280; and

(ii) All threats to waters of the state and public health no longer exist as determined by the appropriate person.

(c) The department may require that transfer operations stopped under subsection (2)(a) of this section may not resume unless authorized by the department.

(3) Suspension of transfer operations for immediate threat.

(a) The director may order a facility to suspend transfer operations if there is a condition requiring immediate action to prevent the discharge or threat of discharge of oil or to protect the public health and safety, and the environment.

(b) An order of suspension may be made effective immediately.

(c) An order of suspension shall specify each condition requiring immediate action in writing.

(d) The transfer operation shall remain suspended until the director has determined that the need for immediate action is no longer necessary and has notified the facility operator of that determination.

(e) The director shall notify the facility operator as soon as possible of the determination that the need for immediate action is no longer necessary.

(f) The facility operator may petition the pollution control board, in writing or in any other manner, to reconsider an order of suspension.

NEW SECTION

WAC 173-180A-080 Secondary containment requirements for aboveground storage tanks. (1) Aboveground oil storage tanks must be located within secondary containment areas. Secondary containment systems must be:

(a) Designed, constructed, maintained and operated to prevent discharged oil from entering waters of the state at any time during use of the tank system;

(b) Capable of containing one hundred percent of the capacity of the largest storage tank within the secondary containment area;

(c) Constructed or lined with materials that are compatible with stored material to be placed in the tank system and constructed with sufficient strength and thickness to prevent failure owing to pressure gradients (including static head and external hydrological forces), physical contact with the fluid stored in the storage tank, climatic conditions, and the stresses of daily operations (including stresses from nearby vehicular traffic);

(d) Maintained to prevent a breach of the dike by controlling burrowing animals and weeds;

(e) Placed on a base or foundation capable of providing support to the secondary containment system, resistance to pressure gradients above and below the system, and capable of preventing failure due to settlement, compression or uplift;

(f) Sloped or otherwise designed or operated to drain and remove liquids resulting from leaks, spills, or precipitation. Spilled or leaked oil and accumulated precipitation must be removed from the secondary containment system in a manner which will provide the best achievable protection of public health and the environment; and

(g) Visually inspected monthly to confirm secondary containment integrity. Visual inspections must be documented and records kept on site for a minimum of three years.

(2) If soil is used for the secondary containment system, it must be of such character that any spill onto the soil will be sufficiently contained, readily recoverable and will be managed in accordance with the provisions under WAC 173-303-145, spills and discharges or any other applicable regulation.

(3) The secondary containment system must be maintained free of debris and other materials which may interfere with the effectiveness of the system, including excessive accumulated precipitation.

(4) The facility shall maintain at least one hundred percent of the working capacity of the largest storage tank within the secondary containment area at all times.

(5) All secondary containment pumps, siphons and valves must be properly maintained and kept in good working order.

(6) Drainage of water accumulations from secondary containment areas that discharge directly to the land or waters of the state must be controlled by locally operated, positive shutoff valves or other positive means to prevent a discharge. Valves must be kept closed except when the discharge from the containment system is in compliance with chapter 90.48 RCW, Water pollution control. Valves must be locked closed when the facility is unattended. Necessary measures shall be taken to ensure secondary containment valves are protected from inadvertent opening or vandalism.

There shall be some means of readily determining valve status by facility personnel such as a rising stem valve or position indicator.

(7) The owner or operator shall inspect or monitor accumulated water before discharging from secondary containment to ensure that no oil will be discharged to the waters of the state. All water discharges shall comply with water quality program regulations as described in chapter 90.48 RCW.

(8) The department may require oil containers less than ten thousand gallons (two hundred thirty-eight barrels) to have secondary containment when the container is located less than six hundred feet from navigable waters of the state or a storm water or surface drains which may directly impact navigable waters of the state.

(9) A secondary containment system constructed after the adoption date of this rule shall be installed as follows:

(a) In accordance with the 1993 version of the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30, section 2-3.4.3;

(b) Secondary containment systems must be capable of containing one hundred ten percent of the capacity of the largest storage tank within the secondary containment area;

(c) Secondary containment systems shall be designed to withstand seismic forces;

(d) Drains and other penetrations through secondary containment areas must be minimized consistent with facility operational requirements; and

(e) Secondary containment systems shall be designed and constructed in accordance with sound engineering practice and in conformance with the provisions of this section.

NEW SECTION

WAC 173-180A-090 Storage tank requirements. (1) Storage tanks constructed after the adoption date of this rule shall meet or exceed the National Fire Protection Association (NFPA 30) requirements in effect at the time of construction and one of the following design and manufacturing standards:

(a) UL No. 142, Steel Aboveground Tanks for Flammable and Combustible Liquids;

(b) API Standard 650, Welded Steel Tanks for Oil Storage;

(c) API Standard 620, Design and Construction of Large Welded, Low-Pressure Tanks; or

(d) Another standard approved by the department.

(2) The owner or operator shall ensure that the means of preventing storage tank overflow comply with the 1993 version of the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30, Chapter 2, Section 2-10.

(3) Storage tanks shall be maintained, repaired and inspected in accordance with the requirements of the current edition of API 653 unless the operator proposes an equivalent inspection strategy which is approved by the department.

(4) A record of all inspection results and corrective actions taken must be kept for the service life of the tank and must be available to the department for inspection and copying upon request.

NEW SECTION

WAC 173-180A-100 Transfer pipeline requirements.

(1) Pipelines replaced, relocated or constructed after the adoption date of this rule which are located in areas not controlled by the facility shall be installed in accordance with 49 C.F.R. 195.246 through 49 C.F.R. 195.254 where feasible. Facility control is established by fencing, barriers or other method accepted by the department which protects the pipe right-of-way and limits access to personnel authorized by the facility.

(2) All pipelines shall be protected from third party damage in a reasonable manner and be able to withstand external forces exerted upon them. This shall be done by:

(a) Registering all underground pipelines located in public right-of-way areas in the local one call system if available;

(b) Maintaining accurate maps for all underground piping located outside the facility. The maps shall identify pipe size and location. The approximate depths of pipelines shall be identified for pipelines which do not comply with 49 C.F.R. 195.248;

(c) Marking all piping located in areas not controlled by the facility in accordance with 49 C.F.R. 195.410;

(d) Providing regular surveillance of areas identified by subsection (2)(b) of this section on a weekly basis to determine if there is any uncommon activity which may affect the integrity of the pipeline;

(e) Ensuring that pipelines at each railroad, highway or road crossing are designed and installed to adequately withstand the dynamic forces exerted by anticipated traffic loads.

(3) Pipelines constructed after the adoption date of this rule shall be designed and constructed in accordance with the American Society of Mechanical Engineers (ASME) Standard for pressure piping ASME B31.3 or B31.4 in effect during the time of construction or any other standard accepted by the Department.

(4) Pipelines must be inspected in accordance with API 570, 1993, Piping Inspection Code. As an alternative to complying with API 570, the facility must comply with the following requirements:

(a) Buried pipelines constructed after the adoption date of this rule must be coated and inspected to meet the following conditions upon installation and during the operating life of the pipeline:

(i) Coatings shall effectively electrically isolate the external surfaces of the pipeline system from the environment.

(ii) Coatings shall have sufficient adhesion to effectively resist underfilm migration of moisture.

(iii) Coatings must be sufficiently ductile to resist cracking.

(iv) The coating shall have sufficient impact and abrasion resistance or otherwise be protected to resist damage due to soil stress and normal handling (including concrete coating application, installation of river weights and anode bracelet installation, where applicable).

(v) The coating must be compatible with cathodic protection.

(vi) The coating must be compatible with the operating temperature of the pipeline.

(vii) Coatings shall be inspected immediately before, during, or after pipe installation to detect coating faults. Faults in the coating shall be repaired and reinspected.

(b) All buried coated pipelines shall have properly operated cathodic protection which is maintained during the operational life of the pipeline system. Cathodic protection shall be maintained on pipeline systems which are out of service but not abandoned. Pipelines owners or operators may perform a corrosion study to demonstrate that cathodic protection is not required as an option to installing cathodic protection. Corrosion studies shall follow the following guidelines as a minimum:

(i) Corrosion studies shall be completed by a professional engineer with experience in corrosion control of buried pipelines, a NACE certified corrosion specialist or by a person knowledgeable and qualified to perform the required testing and inspection who is approved by the department.

(ii) Corrosion studies for pipelines shall include at a minimum, the following:

(A) Pipeline thickness and corrosion rate for existing pipelines;

(B) Presence of stray DC currents;

(C) Soil resistivity/conductivity;

(D) Soil moisture content;

(E) Soil pH;

(F) Chloride ion concentration; and

(G) Sulfide ion concentration.

(c) All pipelines with cathodic protection are subject to the following requirements where applicable:

(i) Cathodic protection systems must be tested to determine system adequacy on an annual basis.

Note: The National Association of Corrosion Standard RP-02-85, "Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems," may be used to comply with this section.

(ii) Impressed current cathodic protection rectifiers must be inspected every two months.

(iii) Where insulating devices are installed to provide electrical isolation of pipeline systems to facilitate the application of corrosion control, they shall be properly rated for temperature, pressure and electrical properties, and shall be resistant to the commodity carried in the pipeline system.

(iv) Buried pipeline systems shall be installed so that they are not in electrical contact with any metallic structures. This requirement shall not preclude the use of electrical bonding to facilitate the application of cathodic protection.

(v) Tests shall be carried out to determine the presence of stray currents. Where stray currents are present, measures shall be taken to mitigate detrimental effects.

(d) Buried bare pipelines shall be inspected in accordance with section 7 of API 570. Pipeline thickness and corrosion rates shall be determined at a frequency of no more than half of the remaining life of the pipeline as determined from corrosion rates or every five years whichever is more frequent. Pipeline thickness and corrosion rate shall be initially established within thirty-six months after the adoption date of this rule. The pipeline shall be operated in accordance with American Society of Mechanical Engineers (ASME) supplement to ASME B31G-1991 entitled "*Manual for Determining the Remaining Strength of Corroded Pipe*"

for transmission pipelines, API 570 or a standard approved by the department.

(5) Whenever any buried pipe is exposed for any reason, the operator shall provide a nondestructive examination of the pipe for evidence of external corrosion. If the operator finds that there is active corrosion, the extent of that corrosion must be determined and if necessary repaired.

(6) Each facility shall maintain all pumps and valves that could affect waters of the state in the event of a failure. Transfer pipeline pumps and valves and storage tank valves shall be inspected annually and maintained in accordance with the manufacturers recommendations to ensure that they are functioning properly. Valves shall be locked when the facility is not attended. Necessary measures shall be taken to ensure that valves are protected from inadvertent opening or vandalism if located outside the facility or at an unattended facility.

(7) A written record must be kept of all inspections and tests covered by this section.

(8) Facilities shall have the capability of detecting a transfer pipeline leak equal to eight percent of the maximum design flow rate within fifteen minutes for transfer pipelines connected to tank vessels. Leak detection capability shall be determined by the facility using best engineering judgment. Deficiencies with leak detection systems such as false alarms must be addressed and accounted for by the facility. Facilities may meet this requirement by:

(a) Visual inspection provided the entire pipeline is visible and inspected every fifteen minutes; or

(b) Instrumentation; or

(c) Completely containing the entire circumference of the pipeline provided that a leak can be detected within fifteen minutes; or

(d) Conducting an acceptable hydrotest of the pipeline immediately before the oil transfer with visual surveillance of the exposed pipeline every fifteen minutes; or

(e) A combination of the above strategies; or

(f) A method approved by the department which meets the standard identified in this section.

Leak detection operations must be described in the facility operations manual.

NEW SECTION

WAC 173-180A-110 Inspections. The department may verify compliance with this chapter by announced and unannounced inspections in accordance with RCW 90.56.410. During an inspection the department may require the facility to provide proof of compliance by producing all required records, documents as well as demonstrating spill prevention equipment and procedures required by this rule.

NEW SECTION

WAC 173-180A-120 Recordkeeping. Records required by this rule shall be maintained and available for a minimum of three years. Storage tank and pipeline records shall be maintained for the life of the equipment. Records shall be available to the department for inspection or photocopying upon request.

NEW SECTION

WAC 173-180A-130 Noncompliance. Any violation of this chapter may be subject to the enforcement sanctions of chapter 90.48 RCW.

NEW SECTION

WAC 173-180A-140 Rule review. The department shall review the requirements of this section every five years to ensure that best achievable protection of public health and environment is being achieved. This review shall include a review of current and updated industry standards, federal and state regulations, equipment and operational procedures.

NEW SECTION

WAC 173-180A-150 Severability. If any provision of this chapter is held invalid, the remainder of this rule is not affected.

WSR 94-01-172**PROPOSED RULES****DEPARTMENT OF ECOLOGY**

[Order 91-63—Filed December 21, 1993, 4:33 p.m.]

Original Notice.

Title of Rule: Chapter 173-180B WAC, Facility oil handling operations manual standards.

Purpose: To implement the provisions of RCW 90.56.230, to establish facility operations manual requirements, to minimize the likelihood that a facility oil spill will occur, to minimize the size and impact of spills which do occur, and provide improved protection of Washington waters.

Statutory Authority for Adoption: RCW 90.56.230.

Statute Being Implemented: RCW 90.56.230.

Summary: The Department of Ecology is required by RCW 90.56.230 to establish standards for operations and manuals to be prepared by facilities which handle oil (as defined by RCW 90.56.010).

Reasons Supporting Proposal: To provide minimum operation manual standards.

Name of Agency Personnel Responsible for Drafting: Joe Subsits, Ecology Headquarters, P.O. Box 47600, (206) 407-6965; Implementation and Enforcement: Greg Sorlie, Ecology Headquarters, P.O. Box 47600, (206) 407-6977.

Name of Proponent: Department of Ecology, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This rule will require facilities which handle oil (as defined by RCW 90.56.010) to meet minimum standards in the development of operations manuals. At a minimum these standards, when followed are expected to help minimize the likelihood that facility oil spills will occur, minimize the size and impacts of spills which do occur, and provide improved protection of Washington waters and natural resources from the impacts of oil spills.

Proposal does not change existing rules.

Small Business Economic Impact Statement

Introduction: Two new rules affecting oil handling facilities are being proposed by the Department of Ecology (ecology). Facility oil handling operations and design standards, chapter 173-180A WAC, and Facility oil handling operations manual standards, 173-180B WAC. These rules are intended to prevent oil spills from the facilities. Each of the rules will create economic impacts for oil handling facilities. The largest costs will be imposed by the following parts of the rules.

Operations: Both standards will increase the cost of operations. Most of the cost increase will be due to the facility oil handling operations and design standards.

API 653: The American Petroleum Institute developed a protocol for inspection of tanks. It is designed to determine the rate of decline for tanks and to allow problems to be identified early. Several of the companies have begun to use this inspection process already.

Tank Alarms: Installation of overfill alarms on tanks would prevent them from being overfilled. This is expensive for companies that have used visual inspection of outside gauges, which have large numbers of small tanks.

Secondary Containment: Secondary containment improvements to prevent leaks and oil escaping.

Pipelines: Leak detection and cathodic protection for pipes that cannot be inspected visually on a regular basis during oil transfers.

Some of the requirements will also prolong the useful life of equipment and reduce the net cost of the rules.

Economic Impact: The proposed rule has been reviewed and found to affect all of the facilities that provide refining of oil in Washington and many of the facilities that provide oil transfers. The impact is disproportionate. Preparation of an SBEIS is required by the Regulatory Fairness Act.

The Governor's Efficiency Commission requires ecology to estimate the total cost of a rule. For these rules, the estimates vary based on the assumptions used. Operating costs were not well reported and are a large component of this rule. Some companies were unable to estimate the cost of parts of the rules. Ecology has adjusted for these problems to develop values that are conservative in that they may overstate the cost of the rule. The estimates fall into a broad range of \$50 to \$110 million for the state as a whole. These values assume 100% compliance within 5 years.

The following table is based on costs reported by the companies. Companies have been divided based on their reported employment figures rather than the capacity of the facility. The employment figures reported are higher than industry averages reported in the census or to Washington State Employment Security. The sample may thus be biased in terms of larger costs reported by larger organizations.

Comparison of companies costs

| | Small Companies | Companies not reporting employment* | Large companies |
|---------------------------|-----------------------|-------------------------------------|-------------------------|
| Number of companies | 9 | 9 | 10 |
| Average costs | \$1,432,000 | \$1,872,000 | **\$8,150,000 |
| Cost range | \$19,643 to 5,315,492 | \$53,253 to 7,500,000 | \$443,417 to 32,894,897 |
| Average employment | 17 | 350 | 735 |
| Average cost per employee | \$86,000 | \$5,000 | \$11,000 |

*used average overall reported employment
**includes a high outlier

The rule has been found to have an impact in the following three digit SIC codes:

Average Employment Industries* Affected by the Facility Operations and Design Standards Rule

| SIC | INDUSTRY | EMPLOYMENT *** | |
|-----|--|-----------------|-----------------|
| | | Small Companies | Large Companies |
| 291 | Petroleum Refining | 9 | 272 |
| 295 | Asphalt Paving and Roofing Materials** | 22 | 165 |
| 299 | Miscellaneous Petroleum and Coal Products** | 12 | 99 |
| 461 | Pipelines, Except Natural Gas** | 6 | NA |
| 517 | Petroleum and Petroleum Products Wholesale Trade | 6 | 65 |

- * Small distributors may have another SIC classification.
- ** Data from County Business Patterns, 1990 Census.
- *** Other data from Washington State Department of Employment Security.

Cost Minimizing Features of the Rules: The regulations were written with the help of a technical advisory committee, thus the design and operation requirements are intended to reduce risk from the dominant sources of spills. The following features are the primary cost minimizing features of the regulations.

Performance based requirements: Most of the requirements are based on performance rather than being specific. This will allow each company to respond more flexibly to the risks at their facilities.

Existing industry recommendations: The requirements of the regulations were drawn from industry recommendations. As a result many companies already comply with substantial portions of the rules.

Compliance schedules: Compliance schedules will allow companies to phase in new purchases and efforts over time. This is likely to benefit small companies with less access to capital markets.

New construction: Some of the requirements only apply to new construction. This will prevent the early retirement of sound equipment.

For a copy of the full SBEIS please contact Joe Subits at (206) 407-6965: Spills Program, Department of Ecology, Mailstop 47600, P.O. Box 47600, Olympia, WA 98504-7600.

Hearing Location: On January 26, 1994, at 7:00 - 9:00 p.m., Ecology Headquarters Auditorium, 300 Desmond Drive, Lacey, WA; on January 27, 1994, at 7:00 - 9:00 p.m., Anacortes City Council Chambers, 6th and Q Avenue, Anacortes, Washington; on February 1, 1994, at 7:00 - 9:00 p.m., Puget Sound Power and Light Building, 10608 N.E. 4th Street, Bellevue, WA.

Submit Written Comments to: Joe Subits, Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600, by February 8, 1994.

Date of Intended Adoption: April 28, 1994.

December 16, 1993
Mary Riveland
Director

**Chapter 173-180B WAC
FACILITY OIL HANDLING OPERATIONS MANUAL STANDARDS**

NEW SECTION

WAC 173-180B-010 Purpose. The purpose of this chapter is to establish operations manual requirements which, when followed, will:

- (1) Help to prevent oil and petroleum spills from occurring;
- (2) Ensure that facilities are operated in a manner which will provide the best achievable protection of public health and the environment;
- (3) Provide improved protection of Washington waters and natural resources from the impacts of oil spills caused by operational errors.

NEW SECTION

WAC 173-180B-020 Authority. RCW 90.56.230 provides statutory authority for operations manual preparation and review requirements established by this chapter.

NEW SECTION

WAC 173-180B-030 Definitions. "Best achievable protection" means the highest level of protection that can be achieved through the use of the best achievable technology and those staffing levels, training procedures, and operational methods that provide the greatest degree of protection achievable. The director's determination of best achievable protection shall be guided by the critical need to protect the state's natural resources and waters, while considering: The additional protection provided by the measures; the technological achievability of the measures; and the cost of the measures.

"Best achievable technology" means the technology that provides the greatest degree of protection, taking into consideration processes that are being developed, or could feasibly be developed, given overall reasonable expenditures on research and development, and processes that are currently in use. In determining what is best achievable technology, the director shall consider the effectiveness, engineering feasibility, and commercial availability of the technology.

"Board" means the pollution control hearings board.

"Bulk" means material that is stored or transported in a loose, unpackaged liquid, powder, or granular form capable of being conveyed by a pipe, bucket, chute, or belt system.

"Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, greater than three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

"Covered vessel" means a tank vessel, cargo vessel, or passenger vessel.

"Department" means the department of ecology.

"Director" means the director of the department of ecology.

"Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying or dumping.

Facility:

"Facility" means any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that transfers oil in bulk to or from a tank vessel or pipeline, that is used for producing, storing, handling, transferring, processing, or transporting oil in bulk.

A facility does not include any: Railroad car, motor vehicle, or other rolling stock while transporting oil over the highways or rail lines of this state; underground storage tank regulated by the department or a local government under chapter 90.76 RCW; a motor vehicle motor fuel outlet; a facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330; or a marine fuel outlet that does not dispense more than three thousand gallons of fuel to a ship that is not a covered vessel, in a single transaction.

"Navigable waters of the state" means those waters of the state, and their adjoining shorelines, that are subject to the ebb and flow of the tide and/or are presently used, have been used in the past, or may be susceptible for use to transport intrastate, interstate, or foreign commerce.

"Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil. Oil does not include any substance listed in Table 302.4 of 40 C.F.R. Part 302 adopted August 14, 1989, under section 101 (14) of the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

"Offshore facility" means any facility, as defined in this section, located in, on, or under any of the navigable waters of the state, but does not include any land of the state, other than submerged land.

"Onshore facility" means any facility, as defined in this section, any part of which is located in, on, or under any land of the state, other than submerged land, that because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters of the state or the adjoining shorelines.

Owner or operator:

"Owner" or "operator" means: In the case of a vessel, any person owning, operating, or chartering by demise, the vessel; in the case of an onshore or offshore facility, any person owning or operating the facility; and in the case of an abandoned vessel or onshore or offshore facility, the person who owned or operated the vessel or facility immediately before its abandonment.

Operator does not include any person who owns the land underlying a facility immediately before its abandonment.

"Passenger vessel" means a ship of greater than three hundred or more gross tons or five hundred or more international gross tons carrying passengers for compensation.

"Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

"Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

"Spill" means an unauthorized discharge of oil which enters the waters of the state.

"Tank vessel" means a ship that is constructed or adapted to carry, or that carries, oil in bulk as cargo or cargo residue, and that:

Operates on the waters of the state; and

Transfers oil in a port or place subject to the jurisdiction of this state.

"Transmission pipeline" means a pipeline whether interstate or intrastate, subject to regulation by the United States Department of Transportation under 49 C.F.R. 195, as amended through December 5, 1991, through which oil moves in transportation, including line pipes, valves, and other appurtenances connected to line pipe, pumping units, and fabricated assemblies associated with pumping units.

"Transfer" means any movement of oil between a tank vessel or transmission pipeline and the facility.

"Waters of the state" include lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches and land adjoining the seacoast of the state, sewers, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

NEW SECTION

WAC 173-180B-040 Applicability. Operations manuals for onshore and offshore facilities must be prepared, submitted, and implemented, pursuant to the requirements in this chapter.

NEW SECTION

WAC 173-180B-050 Manual preparation. (1) Each facility shall prepare an operation and maintenance manual describing equipment and procedures involving the transfer, storage, and handling of oil that the operator employs or will employ to achieve best achievable protection for public health and the environment, and to prevent oil spills. The manual shall also describe equipment and procedures required for all vessels which transfer oil to or from a facility. At a minimum, manuals shall meet the requirements of this chapter.

(2) The manual shall be thorough and contain enough information, analyses, supporting data, and documentation to demonstrate the manual holder's ability to meet the requirements of this chapter and the requirements of chapter 173-180A WAC.

(3) Coast Guard operations manuals required under 33 C.F.R. 154.300 may be submitted to satisfy manual requirements under this chapter if the department deems that such federal requirements equal or exceed those of the department, or if the manuals are modified or appended to satisfy manual requirements under this chapter.

NEW SECTION**WAC 173-180B-060 Manual format requirements.**

(1) Manuals shall be divided into a system of chapters and sections and shall be organized in a format which provides easy access to information.

(2) The manual shall allow replacement of chapter and appendix pages with revisions, without requiring replacement of the entire manual.

NEW SECTION**WAC 173-180B-070 Manual content requirements.**

(1) Each operations manual submitted to the department shall contain a submittal agreement which:

(a) Includes the name, address, and phone number of the submitting party.

(b) Verifies acceptance of the manual by the owner or operator of the facility by either signature of the owner or operator or signature by a person with the authority to bind the corporation which owns such facility;

(c) Commits execution of the manual by the owner or operator of the facility, and verifies authority for the plan holder to make appropriate expenditures in order to execute plan provisions.

(d) Includes the name, location, and address of the facility, type of facility, and starting date of operations.

(e) Each manual shall include a log sheet to record amendments to the manual. The log sheet shall be placed at the front of the manual. The log sheet shall provide for a record of the section amended, the date that the old section was replaced with the amended section, and the initials of the individual making the change. A description of the amendment and its purpose shall also be included in the log sheet, or filed in the form of an amendment letter immediately following the log sheet.

(2) Each manual shall include a detailed table of contents based on chapter, section, and appendix numbers and titles, as well as tables and figures.

(3) Where applicable, topics identified in the table of contents may be cross referenced with other submissions required by chapter 90.56 RCW including contingency and prevention plans, or 33 C.F.R. 156 provided that a copy of the *Coast Guard Operations Manual* has been submitted to ecology.

(4) Operations manuals shall address at a minimum the following topics for marine transfers to or from facilities:

(a) The geographic location of the facility shown on a topographic map;

(b) A physical description of the facility including a plan of the facility showing mooring areas, transfer locations, control stations, oil flow patterns, and locations of safety equipment;

(c) A statement identifying facility operation hours;

(d) A discussion of the sizes, types, and number of vessels that the facility can transfer oil to or from, including simultaneous transfers;

(e) A description of all oil types transferred to or from the facility including:

(i) Generic and chemical name; and

(ii) The following oil information:

(A) The name of the oil;

(B) A description of the appearance of the oil;

(C) The hazards involved in handling the oil;

(D) Instructions for safe handling of oil;

(E) The procedures to be followed if the oil spills or leaks, or if a person is exposed to the oil; and

(F) A list of fire fighting procedures and extinguishing agents effective with fires involving the oil.

(f) A discussion of the minimum number of persons or equipment required to perform transfer operations and their duties;

(g) The names and telephone numbers of facility, federal, state, local and other personnel who may be called by the employees of the facility in case of an emergency;

(h) The duties of the transfer watchmen;

(i) Instructions in the use of each communication system;

(j) The location and facilities of each personnel shelter, if any;

(k) A description and instructions for the use of drip and discharge collection and vessel slop reception facilities, if any;

(l) Emergency plans and procedures including a description of and the location of each emergency shutdown system;

(m) Quantity, types, locations, and instructions for use of monitoring devices;

(n) Quantity, type, location, instructions for use, and time limits for gaining access to containment equipment;

(o) Quantity, type, location, and instructions for use of fire extinguishing equipment;

(p) Maximum relief valve settings (or maximum system pressures when relief valves are not provided) for each transfer system;

(q) Detailed procedures for:

(i) Operating each loading arm including the limitations of each loading arm;

(ii) Transferring oil;

(iii) Completion of pumping; and

(iv) Emergencies.

(r) Procedures for reporting and initial containment of oil discharges;

(s) A brief summary of applicable federal, state, and local oil pollution laws and regulations;

(t) If applicable, procedures for shielding portable lighting;

(u) A discussion of facility operation procedures for conducting oil transfers including transfer startups and shutdowns;

(v) Recordkeeping procedures and sample forms which are associated with the requirements in chapters 173-180A and 173-180B WAC;

(w) Example maintenance schedules incorporating manufacturers recommendations, preventative maintenance, replacement criteria for transfer pipelines, pumps and valves;

(x) A discussion of equipment and procedures required for all vessels which transfer oil to the facility. Procedures for verifying that vessels meet facility requirements and operations manual procedures;

(y) A section in accordance with the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30-1993, Chapter 2, Section 2-10 which requires that written procedures be developed to describe overfill prevention procedures. Overfill prevention procedures shall be described for transfers to storage tanks and tank vessels;

(z) A discussion of the leak detection system and/or procedures implemented by the facility.

(5) Operations manuals shall address at a minimum the following topics for transfers to or from transmission pipelines:

(a) The geographic location of the facility shown on a topographic map;

(b) A physical description of the facility including a plan of the facility showing transfer locations, control stations, oil flow patterns, and locations of safety equipment;

(c) A statement identifying facility operation hours;

(d) A description of all oil types transferred to or from the facility including:

(i) Generic and chemical name; and

(ii) The following oil information:

(A) The name of the oil;

(B) A description of the appearance of the oil;

(C) A description of the odor of the oil;

(D) The hazards involved in handling the oil;

(E) Instructions for safe handling of oil;

(F) The procedures to be followed if the oil spills or leaks, or if a person is exposed to the oil; and

(G) A list of fire fighting procedures and extinguishing agents effective with fires involving the oil.

(e) A discussion of the minimum number of persons required to perform transfer operations and their duties;

(f) The names and telephone numbers of facility, federal, state, local and other personnel who may be called by the employees of the facility in case of an emergency;

(g) The duties of the facility operator;

(h) A description of each communication system;

(i) The location and facilities of each personnel shelter, if any;

(j) Emergency plans and procedures including a description of and the location of each emergency shutdown system;

(k) Quantity, types, locations, and instructions for use of monitoring devices;

(l) Quantity, type, location, instructions for use, and time limits for gaining access to containment equipment;

(m) Quantity, type, location, and instructions for use of fire extinguishing equipment;

(n) Maximum relief valve settings (or maximum system pressures when relief valves are not provided) for each transfer system;

(o) Detailed procedures for:

(i) Transferring oil;

(ii) Completion of transfer; and

(iii) Emergencies.

(p) Procedures for reporting and initial containment of oil discharges;

(q) A brief summary of applicable federal, state, and local oil pollution laws and regulations;

(r) A description of the training and qualification program for persons in charge;

(s) A discussion of facility operation procedures for conducting oil transfers including transfer startups and shutdowns;

(t) Recordkeeping procedures and sample forms to be used;

(u) Example maintenance schedules incorporating manufacturers recommendations, preventative maintenance replacement criteria for transfer pipelines, pumps and valves;

(v) A section in accordance with the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30-1993, Chapter 2, Section 2-10 which requires that written procedures be developed to describe overfill prevention procedures. Overfill prevention procedures shall be described for transfers to storage tanks and tank vessels.

NEW SECTION

WAC 173-180B-080 Manual submittal. (1) Manuals for onshore and offshore facilities shall be submitted to ecology within eighteen months after the adoption date of this rule.

(2) Any onshore or offshore facility that first begins operating after the above deadline shall submit a manual to the department at least sixty-five calendar days prior to the beginning of operations.

(3) Three copies of the manual and appendices shall be delivered to:

Spill Management Section,
Operations Manual Review
Washington Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

(4) The plan submitter may request that proprietary information be kept confidential under RCW 43.21A.160.

NEW SECTION

WAC 173-180B-090 Manual review. (1) Upon receipt of a manual, ecology shall determine promptly whether the manual is complete. If the department determines that a manual is incomplete, the submitter shall be notified of deficiencies.

(2) A manual shall be approved if, in addition to meeting criteria in this section, that when implemented, it can provide best achievable protection from damages cause by the discharge of oil into waters of the state.

(3) When reviewing manuals, ecology shall, in addition to the above criteria, consider the following:

(a) The volume and type of oil(s) addressed by the facility prevention plan;

(b) The history and circumstances of prior spills by similar types of facilities, including spills reported to the state and federal government in Washington state;

(c) Inspection reports;

(d) The presence of operating hazards;

(e) The sensitivity and value of natural resources within the geographic area covered by the plan; and

(f) Any pertinent local, state, federal agency, or public comments received on the manual.

(4) Ecology shall endeavor to notify the facility owner or operator within five working days after the review is completed whether the manual has been approved.

(a) If the plan receives approval, the facility owner or operator shall receive an approval letter describing the terms of approval, including expiration dates pursuant to WAC 173-180-085(4).

(b)(i) Ecology may approve a manual conditionally by requiring a facility owner or operator to operate with specific precautionary measures until acceptable components of the plan are resubmitted and approved.

(ii) Precautionary measures may include, but are not limited to, reducing oil transfer rates, increasing personnel levels, or restricting operations to daylight hours. Precautionary measures may also include additional requirements to ensure availability to response equipment.

(iii) A manual holder shall have thirty days after the department gives notification of conditional status to submit and implement required changes to ecology, with the option for an extension at ecology's discretion. Manual holders who fail to meet conditional requirements or provide required changes in the time allowed shall lose conditional approval status.

(c) If manual approval is denied, the facility owner or operator shall receive an explanation of the factors for disapproval and a list of deficiencies. The owner or operator of the facility must resubmit the manual within ninety days of notification of reasons for noncompliance, responding to the reasons and incorporating any suggested modifications. The facility shall not continue oil storage, transfer, production, or other operations until a manual for that facility has been approved.

(d) A manual holder may appeal ecology's decision under WAC 173-04-010.

(e) Approval of a manual by ecology does not constitute an express assurance regarding the adequacy of the manual nor constitute a defense to liability imposed under state law.

NEW SECTION

WAC 173-180B-100 Manual maintenance and use.

(1) All equipment and operations of the facility shall be completed and maintained in accordance with the facility's operation manual. The owner or operator shall ensure that all covered vessels docked at an onshore or offshore facility comply with the terms of the operations manual for the facility.

(2) Each facility covered by the manual shall possess a copy of the manual and keep it in an immediately accessible location.

(3) Facilities shall ensure that all employees involved in oil transfer, or storage operations, are familiar with the manual provisions through regular training. Orientation materials for new employees involved in oil transfer or storage operations shall contain a copy of the manual.

NEW SECTION

WAC 173-180B-110 Inspections. Ecology may verify compliance with this chapter by announced and unannounced inspections in accordance with RCW 90.56.410. During an inspection ecology may require the facility to provide proof of compliance by producing all required records, documents as well as demonstrating spill prevention equipment and procedures.

NEW SECTION

WAC 173-180B-120 Manual update timeline. (1) Ecology shall be notified in writing prior to any significant changes which could affect implementation of the manual.

- (a) A significant change includes, but is not limited to:
 - (i) A change in the owner or operator of the facility;
 - (ii) A change in the types of oil handled at the facility;

(iii) A substantial change in the facility's oil handling capacity;

(iv) Noncompliance with the federal Oil Pollution Act of 1990;

(v) A substantial change in oil spill prevention technology installed at the facility, or other substantial changes to facility technology, operations, or personnel procedures based on requirements of amended or new rules adopted by ecology; and

(vi) A change which would require that the operations manual be modified.

(b) If the change will reduce the facility's ability to implement the manual, the manual holder shall also provide a schedule for the return of the manual to full implementation capability.

(c) A facsimile will be considered written notice for the purposes of this section.

(d) Failure to notify ecology of significant changes shall be considered noncompliance with this chapter and subject to the provisions of WAC 173-180B-070.

(2) If ecology finds that, as a result of the change, the manual no longer meets approval criteria, the department may, at its discretion, place conditions on approval, or revoke approval. The department may also require the manual holder to amend its manual to incorporate the change.

(3) Within thirty calendar days of making a change to the operations manual, the facility owner or operator shall distribute the amended page(s) of the plan to ecology and other manual holders.

(4) Manuals shall be reviewed by ecology every five years. Manuals shall be submitted for reapproval unless the manual holder submits a letter requesting that ecology review the manual already in the department's possession. The manual holder shall submit the manual or such letter at least one hundred eighty calendar days in advance of the manual expiration date.

(5) Ecology may review a manual and require changes following any spill for which the manual holder is responsible.

NEW SECTION

WAC 173-180B-130 Noncompliance with manual requirements. Any violation of this chapter may be subject to the enforcement sanctions of chapter 90.48 RCW.

NEW SECTION

WAC 173-180B-140 Severability. If any provision of this chapter is held invalid, the remainder of this rule is not affected.

WSR 94-01-173

PROPOSED RULES

DEPARTMENT OF ECOLOGY

[Order 93-34—Filed December 21, 1993, 4:35 p.m.]

Original Notice.

Title of Rule: Dangerous waste regulations, chapter 173-303 WAC.

Purpose: The amendment to chapter 173-303 WAC is proposed in response to public comments ecology received during the previous rulemaking.

Statutory Authority for Adoption: Chapters 70.105 and 70.105D RCW.

Statute Being Implemented: Chapter 70.105 RCW.

Summary: An amendment is proposed to the exclusion for wood ash, WAC 173-303-071 (3)(v) and a technical correction is proposed to WAC 173-303-104.

Reasons Supporting Proposal: During previous rulemaking, ecology received public comments on the wood ash exclusion that resulted in this proposal to broaden the exclusion to include creosote-treated wood and pulp and paper mill wastewater treatment sludges. Additionally, a technical correction is proposed for WAC 173-303-104.

Name of Agency Personnel Responsible for Drafting: Patricia Hervieux, P.O. Box 47600, Olympia, WA 98504-7600, (206) 407-6756; **Implementation and Enforcement:** Tom Eaton, P.O. Box 47600, Olympia, WA 98504-7600, (206) 407-6702.

Name of Proponent: Department of Ecology, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: The dangerous waste regulations set forth the requirements for designating solid wastes that are dangerous, establish a system for tracking dangerous waste from generation to treatment or disposal, and establish requirements for facilities that manage dangerous waste so that all dangerous wastes are managed safely and responsibly in Washington state.

Proposal Changes the Following Existing Rules: Ecology recently adopted an exclusion for wood ash that designates as a dangerous waste solely for corrosivity (pH above 12.5). Based on consideration of public comments received, ecology is proposing to expand the scope of the exclusion to include ash resulting from the combustion of wood treated solely with creosote and to expand the list of acceptable wood fiber materials. Changes to the original wording were deemed significant enough to warrant an additional public comment period. The reasoning behind the original and currently proposed exclusion remains the same. Ecology believes that wood ash designating as a dangerous waste solely for corrosivity does not warrant management as a dangerous waste (chapter 173-303 WAC), but should be managed under solid waste regulations (chapter 173-304 WAC). Removal of the stigma often associated with the dangerous waste designation is intended to promote alternative management options. For example, wood ash historically has been successfully employed as a soil amendment utilizing both its alkaline nature in "sweetening" soils and in providing needed mineral nutrients. Expansion of ash management options also complies with the state's legislative mandate (RCW 70.105.150) to move up the waste management hierarchy, which favors waste reduction and recycling over landfill disposal. Note that the proposed exclusion is only for ash designating solely for corrosivity (WAC 173-303-090). If the ash designates under any other criteria, that is, persistence, carcinogenicity, or toxicity or if it fails as a toxicity characteristic waste, the wood ash does not meet this exclusion. The proposed

exclusion does not relieve the generator of the responsibility for proper waste designation.

The proposed wording expands the exclusion to include wastewater treatment solids (sludges) as wood fiber materials qualifying for the exclusion. The sludges are typically generated in primary and secondary clarifiers associated with waste water treatment systems at wood burning facilities such as pulp and paper mills. Sludges from primary clarifiers consist of wood fibers and readily settleable solids. Sludges from secondary clarifiers consist of microorganisms and wood fiber fines. The proposed wording limits the qualifying sludges to those "associated" with the process or activity resulting in the ash. This is not meant to imply a strict locational relationship. For example, pulp and paper mills generate wood ash in their power boilers. They also typically introduce sludge from their waste water treatment system to both reduce sludge volume and derive BTU value from the sludge. The intent is to disallow sludges that are generated from dissimilar processes whose inclusion might change the chemical composition or concentration of the resulting ash from the proposed exclusion.

Ecology evaluated the issued of the presence of chlorinated organics (dioxins and furans) associated with combusting pulp and paper mill sludges. Some concern was expressed in the previous comment period that chlorine, which may be used as a bleaching agent during the pulping process, would not be completely removed during wastewater treatment and would enter the boilers in conjunction with the primary or secondary clarifier sludge. During combustion, chlorinated organics may be produced as unintended by-products. Although the dangerous waste regulations do not contain a specific dioxin standard, a waste could designate based on its dioxin content as a dangerous waste under the persistence criteria as a halogenated hydrocarbon or as a carcinogenic substance at a minimum of 100 parts per million (ppm), or as a toxic dangerous waste at 10 ppm. Current data shows that the presence of chlorinated organics in ash is in the range of 100 to 300 part per trillion, well below the level at which it would designate as a dangerous waste. It should be noted that if any associated wastewater treatment sludges were to designate as dangerous waste prior to burning they could not be burned with the untreated wood and qualify for the exclusion.

The term "deinking rejects" has been included in the proposed exclusion. This term is defined to mean the waste fiber generated in the newsprint and paper recycling operations exclusive of initial pulping rejects. Initial pulping rejects are not allowed because of the varying nature of materials introduced with the material to be recycled.

Comments received during the previous comment period indicate a need to clarify what is meant by "treated" wood. Treated wood is defined as wood treated by some substance which is intended to act as a preservative due to its inherent toxic nature; for example, pentachlorophenol and arsenic. Ecology received comments during the recently concluded regulation amendment process that the wood ash exclusion proposal and the exclusion for creosote treated wood should be linked. The current proposal expands the wood ash exclusion to include ash resulting from the combustion of wood treated solely with creosote. Again, this is a significant change from the previous proposal and therefore warrants additional public comment.

Ecology is proposing to exclude the ash from burning creosote treated wood for a number of reasons. The inclusion of creosote treated wood dovetails with the previous exclusion ecology granted for creosote treated wood burned for energy recovery (see WAC 173-303-071 (3)(g)(ii)) thus encouraging burning of this wood rather than landfilling. This exclusion (WAC 173-303-071 (3)(v)) is for ash that designates solely for corrosivity which makes this the appropriate subsection for the exclusion of ash from burning creosote-treated wood to ensure that it is not excluded if it designates for anything other than corrosivity. Ecology believes that the existing regulations and expected ash constituent concentrations warrant the inclusion of creosote treated wood. Creosote consists primarily of polycyclic aromatic hydrocarbons (PAHs) which are regulated as persistent dangerous wastes under WAC 173-303-103. While no process is 100% efficient, when creosote-treated wood is burned at a high temperature in an efficient, industrial furnace or boiler, the usual products of wood combustion are expected (carbon monoxide, carbon dioxide, particulates, etc.). PAHs should be destroyed, although they will still be present in small amounts. An increase in the formation of chlorinated organics (dioxins and furans) is not expected because creosote contains a low (typically less than 3%) concentration of tar acids which as phenolic compounds could act as precursors to subsequent formation of chlorinated organic compounds.

Small Business Economic Impact Statement

The proposed amendment to the dangerous waste regulation creates an exclusion for ashes created by burning the following substances: Untreated wood; creosote treated wood; untreated wood fiber material; and waste water treatment solids associated with wood fiber materials.

The exclusion is valid if the ash is only designated as a hazardous waste because it is corrosive. However, if the ash is toxic, carcinogenic or persistent, the usual dangerous waste handling requirements, such as secondary containment, labeling, manifesting, record keeping and reporting will remain in effect.

Amendments to Dangerous Waste Regulations

| Section | Title | Effect of Amendment |
|---------|------------------------------|--|
| 071 | Excluded Categories of Waste | Provides an exclusion for ash that has been designated in the past because of its corrosive impacts. |

Amendments to chapter 173-303 WAC were suggested by people in the business community whose work is affected by the dangerous waste regulations. Ecology expects the amendment will reduce the cost of managing the excluded wood ash.

The amendment to dangerous waste regulations has been reviewed by ecology as is required by the Regulatory Fairness Act. The amendment will reduce costs. No small business economic impact statement is required.

Hearing Location: Department of Ecology, 300 Desmond Drive, Auditorium, Lacey, WA 98503, on January 25, 1994, at 7:00 p.m.

Submit Written Comments to: Patricia Hervieux, by February 10, 1994.

Date of Intended Adoption: April 26, 1994.

December 15, 1993

Mary Riveland

Director

**Chapter 173-303 WAC
Dangerous Waste Regulations**

AMENDATORY SECTION (Amending Order 92-33, filed 12/6/93 [12/8/93])

WAC 173-303-071 Excluded categories of waste. (1) Purpose. Certain categories of waste have been excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, because they generally are not dangerous waste, are regulated under other state and federal programs, or are recycled in ways which do not threaten public health or the environment. WAC 173-303-071 describes these excluded categories of waste.

(2) Excluding wastes. Any persons who generate a common class of wastes and who seek to categorically exclude such class of wastes from the requirements of this chapter shall comply with the applicable requirements of WAC 173-303-072. No waste class will be excluded if any of the wastes in the class are regulated as hazardous waste under 40 CFR Part 261.

(3) Exclusions. The following categories of waste are excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, 173-303-145, and 173-303-960:

(a)(i) Domestic sewage; and

(ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly owned treatment works (POTW) for treatment provided:

(A) The generator or owner/operator has obtained a state waste discharge permit issued by the department, a temporary permit obtained pursuant to RCW 90.48.200, or pretreatment permit (or written discharge authorization) from a local sewage utility delegated pretreatment program responsibilities pursuant to RCW 90.48.165;

(B) The waste discharge is specifically authorized in a state waste discharge permit, pretreatment permit or written discharge authorization, or in the case of a temporary permit the waste is accurately described in the permit application;

(C) The waste discharge is not prohibited under 40 CFR Part 403.5; and,

(D) The waste prior to mixing with domestic sewage shall not exhibit dangerous waste characteristics for ignitability, corrosivity, reactivity, or toxicity as defined in WAC 173-303-090, and shall not meet the dangerous waste criteria for toxic dangerous waste, persistent dangerous waste, or for carcinogenic dangerous waste under WAC 173-303-100, unless the waste is treatable in the publicly owned treatment works (POTW) where it will be received. This exclusion does not apply to the generation, treatment, storage, recycling, or other management of dangerous wastes prior to discharge into the sanitary sewage system.

(b) Industrial wastewater discharges that are point-source discharges subject to regulation under Section 402 of the Clean Water Act. This exclusion does not apply to the

collection, storage, or treatment of industrial waste-waters prior to discharge, nor to sludges that are generated during industrial wastewater treatment. Owners or operators of certain wastewater treatment facilities managing dangerous wastes may qualify for a permit-by-rule pursuant to WAC 173-303-802(5);

(c) Household wastes, including household waste that has been collected, transported, stored, or disposed. Wastes which are residues from or are generated by the management of household wastes (e.g., leachate, ash from burning of refuse-derived fuel) are not excluded by this provision. "Household wastes" means any waste material (including garbage, trash, and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas);

(d) Agricultural crops and animal manures which are returned to the soil as fertilizers;

(e) Asphaltic materials designated only for the presence of PAHs by WAC 173-303-100(6). For the purposes of this exclusion, asphaltic materials means materials intended and used for structural and construction purposes (e.g., roads, dikes, paving) which are produced from mixtures of oil and sand, gravel, ash or similar substances;

(f) Roofing tars and shingles, except that these wastes are not excluded if mixed with wastes listed in WAC 173-303-081 or 173-303-082, or if they exhibit any of the characteristics specified in WAC 173-303-090;

(g) Treated wood waste and wood products including:

(i) arsenical-treated wood that fails the test for the toxicity characteristic of WAC 173-303-090(8) (dangerous waste numbers D004 through D017 only), or which fails any state criteria, if the waste is generated by persons who utilize the arsenical-treated wood for the materials' intended end use.

(ii) wood treated with other preservatives provided such treated wood is, within one hundred eighty days after becoming waste:

(A) disposed of at a landfill that is permitted in accordance with WAC 173-304-460, minimum functional standards for solid waste handling, or chapter 173-351 WAC, criteria for municipal solid waste landfills, and provided that such wood is neither a listed waste under WAC 173-303-9903 and -9904 nor a TCLP waste under WAC 173-303-090(8); or

(B) sent to a facility that will legitimately treat or recycle the treated wood waste, and manage any residue in accordance with that state's dangerous waste regulations; or

(C) sent off-site to a permitted TSD facility or placed in an on-site facility which is permitted by the department under WAC 173-303-800 through WAC 173-303-845. In addition, creosote-treated wood is excluded when burned for energy recovery in an industrial furnace or boiler that has an order of approval issued pursuant to RCW 70.94.152 by Ecology or a local air pollution control authority to burn creosote treated wood.

(h) Irrigation return flows;

(i) Materials subjected to in-situ mining techniques which are not removed from the ground during extraction;

(j) Mining overburden returned to the mining site;

(k) Polychlorinated biphenyl (PCB) wastes:

(i) PCB wastes whose disposal is regulated by EPA under 40 CFR 761.60 and that are dangerous either because they fail the test for toxicity characteristic (WAC 173-303-090(8), Dangerous waste codes D018 through D043 only) or because they are designated only by this chapter and not designated by 40 CFR Part 261, are exempt from regulation under this chapter except for WAC 173-303-505 through 173-303-525, and 173-303-960;

(ii) Wastes that would be designated as dangerous waste under this chapter solely because they are listed as W001 under WAC 173-303-9904 when, using EPA's PCB testing method 600/4-81-045, the waste can be shown to contain less than one part per million (ppm) PCB or when, using ASTM method D 4059-86, the waste can be shown to contain less than two parts per million (ppm) PCB;

(iii) Wastes that would be designated as dangerous waste under this chapter solely because they are listed as W001 under WAC 173-303-9904 when such wastes are:

(A) Stored in a manner equivalent to the requirements of 40 CFR 761.65; and

(B) Within one year of removal from service, disposed of either in an incinerator that complies with 40 CFR 761.70, in a chemical waste landfill that complies with 40 CFR 761.75, in a high efficiency boiler that complies with 40 CFR 761.60 (a)(2)(iii) or (a)(3)(iii), or in a facility otherwise approved in accordance with 40 CFR 761.60(e);

(l) Samples:

(i) Except as provided in (l)(ii) of this subsection, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of this chapter, when:

(A) The sample is being transported to a lab for testing or being transported to the sample collector after testing; or

(B) The sample is being stored by the sample collector before transport, by the laboratory before testing, or by the laboratory after testing prior to return to the sample collector; or

(C) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action).

(ii) In order to qualify for the exemptions in (l)(i) of this subsection, a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:

(A) Comply with United States Department of Transportation (DOT), United States Postal Service (USPS), or any other applicable shipping requirements; or

(B) Comply with the following requirements if the sample collector determines that DOT or USPS, or other shipping requirements do not apply:

(I) Assure that the following information accompanies the sample:

(AA) The sample collector's name, mailing address, and telephone number;

(BB) The laboratory's name, mailing address, and telephone number;

(CC) The quantity of the sample;

(DD) The date of shipment;

(EE) A description of the sample; and

(II) Package the sample so that it does not leak, spill, or vaporize from its packaging.

(iii) This exemption does not apply if the laboratory determines that the waste is dangerous but the laboratory is no longer meeting any of the conditions stated in (l)(i) of this subsection;

(m) Asbestos wastes or asbestos containing wastes which would be designated only as respiratory carcinogens by ~~WAC 173-303-084 or 173-303-103~~ WAC 173-303-100, and any other inorganic wastes which are designated only under ~~WAC 173-303-084 or 173-303-103~~ WAC 173-303-100 because they are respiratory carcinogens, if these wastes are managed in compliance with or in a manner equivalent to the asbestos management procedures of 40 CFR Part 61;

(n) Dangerous waste generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated nonwaste-treatment-manufacturing unit until it exits the unit in which it was generated. This exclusion does not apply to surface impoundments, nor does it apply if the dangerous waste remains in the unit more than ninety days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials;

(o) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC codes 331 and 332), except that these wastes are not excluded if they exhibit one or more of the dangerous waste criteria (WAC 173-303-100) or characteristics (WAC 173-303-090);

(p) Wastes from burning any of the materials exempted from regulation by WAC 173-303-120 (2)(a)(v), (vi), (vii), (viii), or (ix). These wastes are not excluded if they exhibit one or more of the dangerous waste criteria;

(q) As of January 1, 1987, secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:

(i) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;

(ii) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators);

(iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed;

(iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal; and

(v) A generator complies with the requirements of chapter 173-303 WAC for any residues (e.g., sludges, filters, etc.) produced from the collection, reclamation, and reuse of the secondary materials.

(r) Treatability study samples.

(i) Except as provided in (r)(ii) of this subsection, persons who generate or collect samples for the purpose of conducting treatability studies as defined in WAC 173-303-040 are not subject to the requirements of WAC 173-303-180, 173-303-190, and 173-303-200 (1)(a), nor are such samples included in the quantity determinations of WAC 173-303-070 (7) and (8) and 173-303-201 when:

(A) The sample is being collected and prepared for transportation by the generator or sample collector; or

(B) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or

(C) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study; or

(D) The sample or waste residue is being transported back to the original generator from the laboratory or testing facility.

(ii) The exemption in (r)(i) of this subsection is applicable to samples of dangerous waste being collected and shipped for the purpose of conducting treatability studies provided that:

(A) The generator or sample collector uses (in "treatability studies") no more than 1000 kg of any dangerous waste, 1 kg of acutely hazardous waste, or 250 kg of soils, water, or debris contaminated with acutely hazardous waste for each process being evaluated for each generated waste stream; and

(B) The mass of each sample shipment does not exceed 1000 kg of dangerous waste, 1 kg of acutely hazardous waste, or 250 kg of soils, water, or debris contaminated with acutely hazardous waste; and

(C) The sample must be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of (r)(ii)(C)(I) or (II) of this subsection are met.

(I) The transportation of each sample shipment complies with United States Department of Transportation (DOT), United States Postal Service (USPS), or any other applicable shipping requirements; or

(II) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:

(AA) The name, mailing address, and telephone number of the originator of the sample;

(BB) The name, address, and telephone number of the laboratory or testing facility that will perform the treatability study;

(CC) The quantity of the sample;

(DD) The date of shipment; and

(EE) A description of the sample, including its dangerous waste number.

(D) The sample is shipped, within ninety days of being generated or of being taken from a stream of previously generated waste, to a laboratory or testing facility which is exempt under (s) of this subsection or has an appropriate final facility permit or interim status; and

(E) The generator or sample collector maintains the following records for a period ending three years after completion of the treatability study:

(I) Copies of the shipping documents;

(II) A copy of the contract with the facility conducting the treatability study;

(III) Documentation showing:

(AA) The amount of waste shipped under this exemption;

(BB) The name, address, and EPA/state identification number of the laboratory or testing facility that received the waste;

(CC) The date the shipment was made; and

(DD) Whether or not unused samples and residues were returned to the generator.

(F) The generator reports the information required under (r)(ii)(E)(III) of this subsection in its annual report.

(iii) The department may grant requests, on a case-by-case basis, for quantity limits in excess of those specified in (r)(ii)(A) of this subsection, for up to an additional 500 kg of nonacute hazardous waste, 1 kg of acute hazardous waste, and 250 kg of soils, water, or debris contaminated with acute hazardous waste or for up to an additional 10,000 kg of wastes regulated only by this chapter and not regulated by 40 CFR Part 261, to conduct further treatability study evaluation when: There has been an equipment or mechanical failure during the conduct of a treatability study; there is a need to verify the results of previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment. The additional quantities allowed are subject to all the provisions in (r)(i) and (ii)(B) of this subsection. The generator or sample collector must apply to the department where the sample is collected and provide in writing the following information:

(A) The reason the generator or sample collector requires additional quantity of sample for the treatability study evaluation and the additional quantity needed;

(B) Documentation accounting for all samples of dangerous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results of each treatability study;

(C) A description of the technical modifications or change in specifications which will be evaluated and the expected results;

(D) If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and

(E) Such other information that the department considers necessary.

(s) Samples undergoing treatability studies at laboratories and testing facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to chapter 70.105 RCW) are not subject to the requirements of this chapter, except WAC 173-303-050, 173-303-145, and 173-303-960 provided that the conditions of (s)(i) through (xiii) of this subsection are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to (s)(i) through (xiii) of this subsection. Where a group of MTUs are located at the same site, the limitations specified in (s)(i) through (xiii) of this subsection apply to the entire group of MTUs collectively as if the group were one MTU.

(i) No less than forty-five days before conducting treatability studies the laboratory or testing facility notifies the

department in writing that it intends to conduct treatability studies under this subsection.

(ii) The laboratory or testing facility conducting the treatability study has an EPA/state identification number.

(iii) No more than a total of 250 kg of "as received" dangerous waste is subjected to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.

(iv) The quantity of "as received" dangerous waste stored at the laboratory or testing facility for the purpose of evaluation in treatability studies does not exceed 1000 kg, the total of which can include 500 kg of soils, water, or debris contaminated with acutely hazardous waste or 1 kg of acutely hazardous waste. This quantity limitation does not include:

(A) Treatability study residues; and

(B) Treatment materials (including nondangerous solid waste) added to "as received" dangerous waste.

(v) No more than ninety days have elapsed since the treatability study for the sample was completed, or no more than one year has elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs.

(vi) The treatability study does not involve the placement of dangerous waste on the land or open burning of dangerous waste.

(vii) The laboratory or testing facility maintains records for three years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:

(A) The name, address, and EPA/state identification number of the generator or sample collector of each waste sample;

(B) The date the shipment was received;

(C) The quantity of waste accepted;

(D) The quantity of "as received" waste in storage each day;

(E) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;

(F) The date the treatability study was concluded;

(G) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated TSD facility, the name of the TSD facility and its EPA/state identification number.

(viii) The laboratory or testing keeps, on-site, a copy of the treatability study contract and all shipping paper associated with the transport of treatability study samples to and from the facility for a period ending three years from the completion date of each treatability study.

(ix) The laboratory or testing facility prepares and submits a report to the department by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:

(A) The name, address, and EPA/state identification number of the laboratory or testing facility conducting the treatability studies;

(B) The types (by process) of treatability studies conducted;

(C) The names and addresses of persons for whom studies have been conducted (including their EPA/state identification numbers);

(D) The total quantity of waste in storage each day;

(E) The quantity and types of waste subjected to treatability studies;

(F) When each treatability study was conducted;

(G) The final disposition of residues and unused sample from each treatability study.

(x) The laboratory or testing facility determines whether any unused sample or residues generated by the treatability study are dangerous waste under WAC 173-303-070 and if so, are subject to the requirements of this chapter, unless the residues and unused samples are returned to the sample originator under the exemption in (r) of this subsection.

(xi) The laboratory or testing facility notifies the department by letter when it is no longer planning to conduct any treatability studies at the site.

(xii) The date the sample was received, or if the treatability study has been completed, the date of the treatability study, is marked and clearly visible for inspection on each container.

(xiii) While being held on site, each container and tank is labeled or marked clearly with the words "dangerous waste" or "hazardous waste." Each container or tank must also be marked with a label or sign which identifies the major risk(s) associated with the waste in the container or tank for employees, emergency response personnel and the public.

Note: If there is already a system in use that performs this function in accordance with local, state, or federal regulations, then such system will be adequate.

(t) Petroleum-contaminated media and debris that fail the test for the toxicity characteristic of WAC 173-303-090(8) (dangerous waste numbers D018 through D043 only) and are subject to the corrective action regulations under 40 CFR Part 280.

(u) Special incinerator ash (as defined in WAC 173-303-040).

(v) Wood ash that would designate solely for corrosivity by WAC 173-303-090 (6)(iii). For the purpose of this exclusion, wood ash means ash residue and emission control dust generated from the combustion of untreated wood, wood treated solely with creosote, and untreated wood fiber materials including, but not limited to (i.e., wood chips, saw dust, tree stumps, paper, cardboard, tree stumps, untreated timbers, and untreated lumber) residuals from waste fiber recycling, deinking rejects, and associated waste water treatment solids. This exclusion allows for the use of ~~over firing fuels~~ (auxiliary fuels including, but not limited to oils, gas, coal, and other fossil fuels) in the combustion process.

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order DE 84-22, filed 6/27/84)

WAC 173-303-104 Generic dangerous waste numbers. (1) Purpose. This section sets forth the dangerous waste number for each of the dangerous waste criteria designations.

(2) Characteristics. A waste which exhibits any of the dangerous waste characteristics, WAC 173-303-090, shall be assigned the dangerous waste number corresponding to the characteristic(s) exhibited by the waste.

(3) Criteria. The following table shall be used for assigning dangerous waste numbers to wastes designated by the dangerous waste criteria or by WAC 173-303-084.

GENERIC DANGEROUS WASTE NUMBERS TABLE

| Dangerous Waste# | Dangerous Waste Criteria and Designation |
|------------------|--|
| | Toxic Dangerous Wastes |
| WT01----- | EHW |
| WT02----- | DW |
| | Persistent Dangerous Wastes |
| | Halogenated Hydrocarbons |
| WP01----- | EHW |
| WP02----- | DW |
| | Polycyclic Aromatic Hydrocarbons |
| WP03----- | EHW |
| | Carcinogenic Dangerous Wastes |
| (WC01----- | EHW)) |
| WC02----- | DW |

WSR 94-01-174

PROPOSED RULES

DEPARTMENT OF ECOLOGY

[Order 93-38—Filed December 21, 1993, 4:37 p.m.]

Original Notice.

Title of Rule: WAC 173-19-2401 Port Townsend shoreline master program.

Purpose: Adoption of revised shoreline master program into state master program, chapter 173-19 WAC.

Statutory Authority for Adoption: RCW 90.58.200.

Statute Being Implemented: Chapter 90.58 RCW, Shoreline Management Act of 1971.

Summary: The amendment revises the shoreline master program for the city of Gig Harbor.

Reasons Supporting Proposal: Shoreline master programs and revisions thereto are developed by local governments and submitted to the department for approval. The programs do not become effective until adopted by the department in accordance with the Shoreline Management Act and the Administrative Procedure Act.

Name of Agency Personnel Responsible for Drafting: Linda Whitcher, Washington Department of Ecology, Box 47600, Olympia, 98504-7600, (206) 407-6523; Implementa-

tion and Enforcement: D. Rodney Mack, Box 47600, Olympia, 98504-7600, (206) 407-7280.

Name of Proponent: Department of Ecology, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: This amendment deletes all references to administrative procedures involving Jefferson County and establishes specific authority for a Port Townsend shoreline hearings board. It also updates tables to reference previously adopted amendments.

Proposal Changes the Following Existing Rules: This amends chapter 173-19 WAC, Shoreline Management Act of 1971, state master program.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: City Hall, Council Chambers, 540 Water Street, Port Townsend, WA 98368, on January 26, 1994, at 7:00 p.m.

Submit Written Comments to: Master Program Coordinator, Washington State Department of Ecology, Shorelands and Coastal Zone Management Program, P.O. Box 47692, Olympia, WA 98504-7692, by February 2, 1994.

Date of Intended Adoption: February 4, 1994.

December 21, 1993

Terry Husseman
for Mary Riveland
Director

AMENDATORY SECTION (Amending Order 93-13, filed 8/17/93, effective 9/17/93)

WAC 173-19-2401 Port Townsend, city of. City of Port Townsend master program approved December 20, 1974. Revision approved March 7, 1989. Approved for adoption March 23, 1993. Revision approved August 16, 1993. Revision approved February 4, 1994.

WSR 94-01-175

PROPOSED RULES

UTILITIES AND TRANSPORTATION COMMISSION

[Filed December 21, 1993, 4:39 p.m.]

Original Notice.

Title of Rule: Amending chapter 480-107 WAC, relating to purchases of electricity from qualifying facilities and independent power producers and purchases of electrical savings from conservation suppliers. The proposed amendatory sections are shown below as Appendix A, Docket No. UE-931302.

Purpose: To clarify and change specific language in sections of the competitive bidding rule for electric utility purchases of demand-side and supply-side resources to allow negotiation of price, to allow separate demand-side and supply-side bid solicitation and evaluation; defining when the utility is obligated to file its solicitation, and when it is obligated to sign contracts.

Statutory Authority for Adoption: RCW 80.01.040.

Summary: See Purpose above.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Steve McLellan, Secretary, 1300 South Evergreen Park Drive S.W., Olympia, WA, (206) 753-6451.

Name of Proponent: Washington Utilities and Transportation Commission, governmental.

Agency Comments or Recommendations, if any, as to Statutory Language, Implementation, Enforcement, and Fiscal Matters: No comments or recommendations are submitted because the proposal is pursuant to legislative authorization in RCW 80.01.040.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: See Purpose above.

Proposal Changes the Following Existing Rules: See Purpose above.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

The proposal will not have a measurable adverse economic affect on industry.

Hearing Location: Commission Hearing Room, Second Floor, Chandler Plaza Building, 1300 South Evergreen Park Drive S.W., Olympia, WA 98504, on February 9, 1994, at 9:00 a.m.

Submit Written Comments to: Steve McLellan, Secretary, P.O. Box 47250, Olympia, WA 98504-7250, by January 19, 1994.

Date of Intended Adoption: February 9, 1994.

December 21, 1993

Steve McLellan
Secretary

AMENDATORY SECTION (Amending Order R-304, Docket No. U-89-2814-R, filed 7/18/89)

WAC 480-107-020 Eligibility for long-run generating facility purchase rates. (1) Any developer of a potential generating facility may participate in the bidding process. Qualifying facility developers proposing projects with a design capacity of one megawatt or less may at any time choose to receive long-run prototype contract B as defined in WAC 480-107-010 (3)(b). The purchase price for power from these projects shall be based on avoided energy and capacity costs as defined in WAC 480-107-050 (~~adjusted to reflect the most recent purchases under these rules~~).

(2) A soliciting electric utility may broaden the scope of the solicitation and bidding process to include other electric utilities, subject to the approval of the commission. Such a decision must be explained in the utility's RFP submittal.

(3) An electric utility may allow an affiliated generating subsidiary to participate in the bidding process as a power supplier, on conditions set forth in WAC 480-107-160. Such a decision must be explained in the utility's RFP submittal.

(4) A project developer must provide evidence that a generation site has or will be obtained (e.g., letter of intent) before signing a contract with the purchasing electric utility.

(5) The project developer shall specify, as part of the price bid, the costs of complying with environmental laws, rules, and regulations in effect at the time of the bid and those reasonably anticipated to be in effect during the term of the project.

(6) Any bid which involves the acquisition of energy from a hydroelectric project located in a protected area as designated by the Northwest Power Planning Council must show in its project proposal that:

(a) Such project qualifies for exception or exemption under sections 1103 (b)(4)-(5) or section 1303(g) of the Columbia River Basin Fish and Wildlife Program, or corresponding provisions of the Northwest Conservation and Electric Power Plan; or

(b) The project developer has obtained the necessary approvals from all entities legally responsible for the protection or management of fish or wildlife resources affected by the project, including the Federal Energy Regulatory Commission. The bid shall specify the estimated costs of such compliance.

AMENDATORY SECTION (Amending Order R-304, Docket No. U-89-2814-R, filed 7/18/89)

WAC 480-107-050 Avoided cost schedules. The electric utility shall determine the avoided costs for the energy and capacity associated with the resource block calculated pursuant to WAC 480-107-040 on an annual basis for the greater of twenty years or the longest period over which power purchase contracts entered under these rules will be effective. This price stream will be referred to as the utility's avoided cost schedule. The avoided cost schedule and its supporting documentation shall be filed with the RFP and shall be reviewed by the commission. Revisions to the avoided cost schedule may be made during the period between solicitations by filing, with the commission and subject to the commission's approval, such revised schedule. The assumptions used in calculating the avoided cost schedule shall be consistent with the utility's least-cost plan. The electric utility shall use this stream of avoided costs to provide general information to potential bidders about the cost of new power supplies absent nonutility resources. For projects rated at one megawatt capacity or less, the most recently approved long-term avoided costs will be the basis for prices offered in prototype contract B negotiations. The avoided cost schedule applicable to any purchases in excess of one megawatt under this chapter shall be that which is filed and approved by the commission pursuant to this section, as adjusted to reflect the most recent purchases under these rules.

AMENDATORY SECTION (Amending Order R-304, Docket No. U-89-2814-R, filed 7/18/89)

WAC 480-107-060 The solicitation process. (1) The utility shall begin the solicitation process by issuing a request for proposals (RFP). The information which a bidder files in accordance with the utility's RFP will be referred to as the project proposal. Project proposals will be subject to a competitive ranking procedure to determine the group of bidders with which the utility will finalize long-run purchase contracts.

(2) Requirements for issuing a request for proposals:

(a) The electric utility shall solicit bids for electric power and electrical savings ~~((at least every two years))~~ in conjunction with its least cost planning schedule. The electric utility is required to file its draft request for proposal with the commission within ninety days of the electric

utility's filing of its final least cost plan. More frequent solicitations shall be allowed at the discretion of the utility. The solicitation must take the form of an RFP approved by the commission.

(b) The electric utility shall submit a proposed RFP and accompanying documentation to the commission at least ninety days before its proposed issuance date. Interested persons shall have sixty days from the RFP's filing date with the commission to submit written comments to the commission on the proposed RFP. The commission shall take action on the proposed RFP within thirty days after the close of the comment period. The commission may suspend the RFP filing to determine whether its issuance is in the public interest.

(c) The RFP shall specify the resource block and the long-term avoided cost schedule as calculated in WAC 480-107-040 and 480-107-050.

(d) The RFP shall explain the evaluation and ranking procedure to be used by the utility. The RFP must also specify any minimum criteria that bidders must satisfy to be eligible for consideration in the ranking procedure.

AMENDATORY SECTION (Amending Order R-304, Docket No. U-89-2814-R, filed 7/18/89)

WAC 480-107-070 Project ranking procedure. (1) The electric utility shall adopt ranking procedures to evaluate project proposals on the basis of least-cost planning goals. The project ranking procedure must use explicitly stated criteria.

(2) The criteria used to rank project proposals are subject to commission approval and must be explained in the RFP. These factors must at a minimum address price, dispatchability, risks imposed on ratepayers, and environmental effects including those associated with resources that emit carbon dioxide.

(3) The electric utility's ranking procedures shall recognize differences in relative amounts of risk inherent among different technologies, fuel sources, financing arrangements, and contract provisions.

(4) Information submitted by the bidder pursuant to an approved RFP shall remain sealed until expiration of the solicitation period specified in the RFP. The utility shall make project proposal summaries and a final ranking available at its place of business for public inspection after the project proposals have been opened for the purpose of ranking. The commission shall retain the right to examine project proposals as originally submitted by potential developers. The electric utility shall keep all documents supplied by project bidders or on their behalf, and all documents generated by the electric utility relating to each bid, for a period of at least seven years from the close of the bidding process, or the conclusion of the electric utility's next general rate case, whichever is later.

AMENDATORY SECTION (Amending Order R-304, Docket No. U-89-2814-R, filed 7/18/89)

WAC 480-107-080 Pricing and contracting procedures. (1) On the basis of the ranked project proposals developed in accordance with WAC 480-107-060 and 480-107-070, the electric utility shall identify the bidders that best meet the selection criteria and that are expected to

produce the energy, capacity, and electrical savings as defined by the resource block.

(2) The price bid (~~and~~), the requested pricing configuration, and terms of the proposed bid services are (~~not~~) subject to negotiation. If a qualifying facility or other generating facility agrees to be operated under economic dispatch, then the price bid shall be adjusted by operating performance adjustments such as the project's equivalent availability factor. The methodology for such performance adjustments must be explained in the utility's RFP submittal.

AMENDATORY SECTION (Amending Order R-304, Docket No. U-89-2814-R, filed 7/18/89)

WAC 480-107-100 Contract finalization. (1) If, for the purposes of finalizing a particular contract, the project developer or electric utility requests changes in the long-run prototype contract, the project developer and utility may negotiate these items consistent with the provisions of this chapter. If after ninety days the parties cannot reach an agreement, either party may request a determination by the commission of the matter at issue.

(2) The electric utility is required to sign long-run prototype contracts for any appropriate time period specified in a selected project proposal for up to a twenty-year term. Longer term contracts can be signed if such provisions are specified in the utility's RFP. A selected project bidder or the utility may petition the commission, after the selection but before the contract is signed, to relieve the party of its obligation to enter into a final contract. The commission may, for good cause shown, relieve the petitioner of its obligation to sign a contract.

(3) If, (~~during contract finalization, a project developer materially changes the representations it had made in its project proposal~~) after project ranking material changes are made in the project proposal, including material price changes, the electric utility must suspend contract finalization with that party and rerank projects according to the (~~new representations~~) revised project proposal. If the (~~new representations~~) material changes cause the revised project proposal to rank lower than projects not originally selected, the utility shall dismiss the project proposal from further consideration and replace it with next ranked projects.

AMENDATORY SECTION (Amending Order R-304, Docket No. U-89-2814-R, filed 7/18/89)

WAC 480-107-120 Obligations of electric utility to qualifying facilities. (1) Obligation to purchase from qualifying facilities. Each electric utility's obligation to purchase from qualifying facilities shall be limited to one of the following:

(a) Energy and capacity from projects under long-run contract A pursuant to the solicitation and bidding process described in these rules;

(b) Energy or capacity offered at any time under long-run prototype contract B from qualifying facilities with a design capacity of one megawatt or less; or

(c) Energy offered under the short-run prototype contract.

(2) Obligation to sell to qualifying facilities. Each electric utility shall sell to any qualifying facilities, in accordance with WAC 480-107-130, any energy and capacity

requested by the qualifying facilities on the same basis as available to other customers of the utility in the same class.

(3) Obligation to interconnect. Any electric utility shall make such interconnections with any qualifying facilities as may be necessary to accomplish purchases or sales under this section. The obligation to pay for any interconnection costs shall be determined in accordance with WAC 480-107-150.

(4) Transmission to other electric utilities. At the request of a qualifying facility, an electric utility which would otherwise be obligated to purchase energy or capacity from such qualifying facility may, at the option of the utilities involved, transmit energy or capacity to any other electric utility. Nothing contained herein shall be construed to obligate the electric utility connected with the qualifying facility to transmit to other utilities or to obligate such other utilities to purchase from the qualifying facility.

(5) Parallel operation. Each electric utility shall offer to operate in parallel with a qualifying facility: *Provided*, That the qualifying facility complies with any applicable standards established in accordance with WAC 480-107-110.

WSR 94-01-176

PROPOSED RULES

DEPARTMENT OF AGRICULTURE

[Filed December 22, 1993, 8:36 a.m.]

Original Notice.

Title of Rule: Chapter 16-38 WAC, Horsemeat, decharacterization.

Purpose: Repeal law which can not be economically enforced. No complaints received in many years. Primary nonhuman consumption use are for rendering and crab bait. In both cases, decharacterization does not protect public health when used for these purchases.

Statutory Authority for Adoption: RCW 16.36.096 and [16.36.1040.

Statute Being Implemented: Chapter 16.36 RCW.

Summary: Repeal whole WAC which requires decharacterization of horsemeat used for purposes other than human consumption.

Reasons Supporting Proposal: This WAC is no longer necessary as substitution of horsemeat for beef or other meat which is no longer a problem and requiring renderers or crab bait suppliers to dye horsemeat is ineffectual anyway and has not been enforced for many years.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: R. W. Mead, DVM, 1111 Washington Street, Olympia, 902-1878.

Name of Proponent: Food Safety/Animal Health Division, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Provides for dying of horsemeat not intended for human use. No longer needed as a black market in horsemeat is not an issue today. Repeal will have no effect as WAC has not been enforced for many years.

Proposal Changes the Following Existing Rules: Eliminates rule.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Washington State Department of Agriculture, Food Safety/Animal Health Division, Conference Room #250, 1111 Washington Street, Olympia, WA 98504-2577, on January 25, 1993 [1994], at 1:30 p.m.

Submit Written Comments to: Dr. Robert W. Mead, P.O. Box 42577, Olympia, WA 98504-2577, by January 21, 1994.

Date of Intended Adoption: January 28, 1994.

December 22, 1993

Robert W. Mead
Acting Assistant Director

REPEALER

The following chapter of the Washington Administrative Code is repealed:

WAC 16-38-001 Promulgation.

WAC 16-38-010 Proper decharacterization defined.

WAC 16-38-020 Penalty.

WSR 94-01-177

PROPOSED RULES

DEPARTMENT OF AGRICULTURE

[Filed December 22, 1993, 8:39 a.m.]

Original Notice.

Title of Rule: Chapter 16-86 WAC, Brucellosis, tuberculosis and scrapie in cattle, goats and sheep.

Purpose: Control of brucellosis and tuberculosis in cattle, goats and sheep and scrapie in sheep in the state of Washington.

Statutory Authority for Adoption: RCW 16.36.096 and [16.36.]040.

Statute Being Implemented: Chapter 16.36 RCW.

Summary: Proposal to increase minimum age for mandatory change of ownership testing of dairy female cattle from the current 20 months of age to 30 months of age if brucellosis vaccinated in Washington and Canada.

Reasons Supporting Proposal: Testing of 20 month old females results in many false positives from vaccination. Titers to brucellosis vaccine are waning by 30 months of age.

Name of Agency Personnel Responsible for Drafting, Implementation and Enforcement: Robert W. Mead, P.O. Box 42577, Olympia, WA 98504-2577, 902-1878.

Name of Proponent: Food Safety/Animal Health Division, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Brucellosis and tuberculosis are zoonotic diseases diagnosed, controlled or eradicated by provisions of this rule. Testing requirements, vaccination requirements, sale, quarantine, branding and tagging, and disinfection are described therein. Test eligible age for interstate movement of dairy cattle or dairy cattle bearing eartag identification from states other than Washington or Canada will remain 20 months. Testing of 20 to 30 month old females results in

many false positive titers from vaccination. Raising the test eligible age will not significantly reduce surveillance for the disease as slaughter testing, BRT testing and blood testing of older animals upon change of ownership will continue.

Proposal Changes the Following Existing Rules: Raises age requirement for change of ownership testing of dairy females from 20 months of age to 30 months of age. All female dairy cattle over 30 months of age sold in Washington, except those destined for slaughter or restricted feedlot, are to be blood tested for brucellosis within 30 days prior to change of ownership.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Washington State Department of Agriculture, Food Safety/Animal Health, Conference Room #250, 1111 Washington Street, Olympia, WA 98504-2577, on January 25, 1994, at 1:45 p.m.

Submit Written Comments to: Dr. Robert W. Mead, P.O. Box 42577, Olympia, WA 98504-2577, by January 21, 1994.

Date of Intended Adoption: January 28, 1994.

December 22, 1993

John Daly

Assistant Director

AMENDATORY SECTION (Amending WSR 92-21-023, filed 10/13/92, effective 11/13/92)

WAC 16-86-015 Washington cattle sale requirements. (1) Effective January 1, 1984, within thirty days prior to any change of ownership and in a manner prescribed by the state veterinarian, all dairy breed cattle shall be tested negative for brucellosis. The following classes of cattle are exempt from this test requirement:

- (a) Calves under four months of age.
- (b) Cattle sold or consigned to a restricted feedlot.
- (c) Cattle sold or consigned to a federally inspected slaughter plant.
- (d) Steers and spayed heifers.
- (e) Official calfhooed vaccinates under twenty months of age and not parturient or post parturient.

(f) Official Washington or Canadian calfhooed vaccinates under thirty months of age as evidence by less than full development of the lower permanent second incisors. This exemption applies only to Washington resident cattle which bear an eartag showing a Washington vaccination (91 V series) or a Canadian vaccination certificate. Subdivision (e) of this subsection applies to all other female dairy breed cattle unless exempted by (a), (b), (c) or (d) of this subsection. Cattle exempted under this subsection may be tested if requested by a prospective buyer or to meet import requirements of another state or foreign country.

(2) All female cattle shall be officially vaccinated against brucellosis and bear a legible vaccination tattoo prior to being sold or introduced into any herd in the state of Washington. This rule does not apply to the following:

- (a) Calves under four months of age. Female calves under four months acquired by any herd and natural female additions must become official calfhooed vaccinates, as provided for in this chapter, to be sold for any purpose other than those set forth in (c), (d), (e), or (f) of this subsection.

(b) Registered female beef cattle born before January 1, 1983.

(c) Cattle sold or consigned to a restricted feedlot.

(d) Cattle sold or consigned to a federally inspected slaughter plant.

(e) Cattle sold or consigned to a public livestock market for immediate slaughter only.

(f) Spayed heifers.

(3) Any dairy breed female cattle over eight months of age which are not exempted in subsection (2) of this section and which are found not to be vaccinated against brucellosis upon consignment to a public livestock market, shall be identified by branding with an "S" brand on the left hip prior to sale and released from the market. After "S" branding, the nonvaccinated cattle may be released by the director on a VS1-27 Form or other official permit to any of the following destinations:

(a) A restricted feedlot.

(b) A federally inspected slaughter plant.

(c) Another public livestock market for immediate slaughter only.

(d) Upon specific approval by the state veterinarian, nonvaccinated cattle "S" branded at a public livestock market may be returned to the farm of origin where they must remain until released by the state veterinarian for consignment to one of the destinations listed under (a), (b), or (c) of this subsection.

(4) Any dairy breed female cattle consigned to a public livestock market for probable slaughter, but whose status is later changed by the buyer, shall be identified by "S" branding and released by the department only as set forth in subsection (3) of this section, if found not to be vaccinated for brucellosis. Any buyer who fails to deliver "S" branded cattle to the destination declared by the buyer or his agent shall be guilty of a violation of this chapter. Whenever necessary, the department shall make the final determination of the vaccination status of any eligible cattle.

(5) All Washington cattle shall be individually identified and permanently recorded as to herd of origin prior to being sold or consigned for slaughter. Such identity shall be transferred to the blood sample taken for MCI test purposes. These records shall be made available to the department upon request. Except the following classes of cattle shall be exempt from this requirement:

(a) Cattle under twenty-four months of age. (Not parturient or post parturient.)

(b) Steers and spayed heifers.

WSR 94-01-186
PROPOSED RULES
DEPARTMENT OF
LABOR AND INDUSTRIES
 [Filed December 22, 1993, 9:58 a.m.]

Continuance of WSR 93-21-071.

Title of Rule: Chapter 296-24 WAC, General safety and health standards; and chapter 296-306 WAC, Safety standards for agriculture.

Purpose: This continuance is filed to extend the written comment period for proposed amendments to chapters 296-24 and 296-306 WAC. The department held public hearings

on November 30, 1993, December 1, 1993, and December 3, 1993, statewide. The department will accept written comments postmarked no later than January 12, 1994. The intended adoption date will be extended to February 28, 1994.

Submit Written Comments to: Suzanne L. Mager, Interim Assistant Director, Division of Industrial Safety and Health, P.O. Box 44620, Olympia, WA 98504-4620, by January 12, 1994.

Date of Intended Adoption: February 28, 1994.

December 22, 1994 [1993]

Mark O. Brown
 Director

WSR 94-01-187
PROPOSED RULES
OFFICE OF MINORITY AND
WOMEN'S BUSINESS ENTERPRISES
 [Filed December 22, 1993, 10:15 a.m.]

Original Notice.

Title of Rule: WAC 326-02-034 Political subdivision fees.

Purpose: To establish a procedure for calculating fees to be charged political subdivisions by Office of Minority and Women's Business Enterprises for the administration of chapter 39.19 RCW.

Statutory Authority for Adoption: RCW 39.19.220.

Statute Being Implemented: Chapter 39.19 RCW.

Summary: This rule ensures the continued support of the office by providing an equitable formula for the assessment of fees to political subdivisions of the state.

Reasons Supporting Proposal: Legislative mandate.

Name of Agency Personnel Responsible for Drafting: Juan Huey-Ray, 406 South Water, Olympia, WA 98504, (206) 586-1228; Implementation and Enforcement: James A. Medina, 406 South Water, Olympia, WA 98504, (206) 753-9697.

Name of Proponent: Office of Minority and Women's Business Enterprises.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Establishes a process for the assessment and collection of fees from political subdivisions of the state to support, in part, the administration of programs adopted pursuant to chapter 39.19 RCW. The anticipated effect, in conjunction with others, will be the continued operation of the office through equitable cost sharing among the political subdivisions and other program users.

Proposal does not change existing rules.

No small business economic impact statement is required for this proposal by chapter 19.85 RCW.

Hearing Location: Office of Minority and Women's Business Enterprises, 406 South Water, Olympia, WA 98504-1160, on January 25, 1994, at 1:30 p.m.

Submit Written Comments to: Office of Minority and Women's Business Enterprises, 406 South Water, Olympia, WA 98504-1160, by January 24, 1994.

Date of Intended Adoption: January 26, 1994.

December 22, 1993
James A. Medina
Director

Evergreen Park Drive S.W., Olympia, WA 98504-7250.
Comments should reach the commission no later than
February 15, 1994.

NEW SECTION

WAC 326-02-034 Political subdivision fees. It is the intent of the state legislature that political subdivisions within the state of Washington contribute to the costs of the state's certification program for minority and women's business enterprises. For the purpose of this section, political subdivisions means any city, town, county, special purpose district, public corporation created by the state, municipal corporation, or quasi-municipal corporation within the state of Washington.

(1) Effective July 1, 1993, the office shall charge a fee to political subdivisions for a portion of the office's biennial operational costs, to be prorated based on the relative expenditures for public works by each political subdivision.

(2) The office shall allocate a portion of its biennial cost of operations to the political subdivisions as a group. Each political subdivision shall pay the percentage of this allocation which is equal to its proportionate share as calculated in subparagraph three (b) of this section.

(3) The fee for the period, July 1, 1993 - June 30, 1995, will be determined as follows:

(a) Each political subdivision shall report to the office the total public works contract dollars committed (including direct awards, subcontracts, and suppliers) in calendar years 1991-1992 to businesses certified by the office.

(b) The sum of these commitments will be divided by the commitment of each political subdivision to calculate proportionate share. The proportionate share will be adjusted as additional political subdivisions participate in the program.

(4) For succeeding biennia, the political subdivisions shall report the total public works contract dollars committed (including direct awards, subcontracts, and suppliers) during the two preceding calendar years to businesses certified by the office. The proportionate share for each political subdivision will be determined as set forth in subparagraph three (b) of this section.

(5) The office will mail invoices on a quarterly basis. Payments shall be made within thirty calendar days after receipt of the invoice; *Provided*, that the first payment shall be made no later than January 30, 1994 and shall cover the period of July 1, 1993 through December 31, 1993.

Other Information or Comments by Agency at this Time, if any: The commission will convene an informal workshop to discuss the draft shown below and any comments that it has received. The workshop will begin at 10:00 a.m., Monday, March 7, 1994, in Room 250 of the commission's headquarters office in Olympia, at the address listed above. Persons with questions may write to the secretary at the address listed above, or may telephone Tim Sweeney of the commission staff, at (206) 586-1123.

December 22, 1993
Steve McLellan
Secretary

WAC 480-124-010 Purpose and applicability. (1) The purpose of this chapter is to prescribe the open network architecture environment within the state of Washington in order to:

(a) stimulate enhanced services availability to the public through the local exchange network;

(b) foster development of innovative applications for open network architecture services and effective competition among all service providers;

(c) encourage public use of open network architecture services;

(d) create a regulatory framework that ensures nondiscriminatory access to the local exchange telecommunications network for all providers on equal rates, terms, and conditions; and

(e) Prescribe conditions under which local exchange companies may furnish enhanced services in competition with other providers of enhanced services without undue competitive advantage.

(2) WAC 480-124-030, -040, -050(3), -060(1), -070(4), and -080 (2), (3) shall not apply to local exchange companies serving less than 15,000 access lines within the state of Washington.

(3) A local exchange company, at its discretion, may elect to offer enhanced services solely on a structurally-separated basis by means of an affiliate. Should a local exchange company make such an election, the local exchange company shall treat its enhanced service provider affiliate as a customer.

WSR 94-01-191
PREPROPOSAL COMMENTS
UTILITIES AND TRANSPORTATION
COMMISSION

[Filed December 22, 1993, 11:02 a.m.]

Subject of Possible Rule Making: Prescription of regulatory requirements of open network architecture for telecommunications companies in Washington state.

Persons may Comment on this Subject in the Following Ways: Written comments will be accepted on the discussion draft shown below. Comments should be submitted to Steve McLellan, Secretary, re: **Docket No. UT-931349**, Washington Utilities and Transportation Commission, 1300 South

WAC 480-124-020 Definitions. For purposes of this chapter:

(1) "Access element" means an unbundled component of a basic serving arrangement;

(2) "Aggregate customer proprietary network information" means summarized or aggregate non-customer specific customer proprietary network information;

(3) "Ancillary service" means a service, such as billing and collection service or operations support systems, which is performed by a local exchange carrier to directly administer or support provision of the local exchange company's basic and enhanced services. Ancillary services do not include the provision of common administration such as

human resources, accounting, purchasing, inventory control, or other similar functions;

(4) "Basic service" means a service which provides transmission capacity for the movement of information. Basic services include data processing, computer memory or storage, switching techniques, and other activities which facilitate the movement of information;

(5) "Basic service element" means an optional feature or function provided by a local exchange company as part of basic services. An optional feature or function can also be classified as a complementary network service;

(6) "Basic serving arrangement" means basic services provided by a local exchange company which link customers to and through the local exchange company's network;

(7) "Building block" means an element or group of elements representing the smallest feasible level of unbundling capable of being tariffed and offered as a service;

(8) "Collocation" means a service, offered by a local exchange company, which provides for placement and installation of a customer's equipment, software, and databases on local exchange company premises. Premises include central offices, remote network facilities, or any other similar location owned by the local exchange company. The equipment, software, and databases are owned by the customer;

(9) "Complementary network service" means an optional feature or function provided by a local exchange company as part of basic services. An optional feature or function can also be classified as a basic service element;

(10) "Comparably efficient interconnection" means the providing of interconnection and network functionalities to customers and the local exchange company's own operations under the same rates, terms, and conditions, and on an unbundled and functionally equivalent basis;

(11) "Customer" means a subscriber, user, or consumer of local exchange company services or an applicant for local exchange company services;

(12) "Customer proprietary network information" means individual customer data that a local exchange company accumulates in the course of providing basic services to the customer. Customer proprietary network information includes types, quantities, and locations of services, billing amounts, repair information, calling patterns, and usage data. Customer proprietary network information does not include listed name, address, and telephone number; billed name, address, and telephone number; credit information; or information pertaining to enhanced or unregulated services supplied by a local exchange company;

(13) "Enhanced service" means a service which employs computer processing applications that act on the format, content, code, protocol, or similar aspects of the customer's transmitted information; provides the customer with additional, different, or restructured information; or involves customer interaction with stored information. Enhanced services include, but are not limited to, information retrieval services, voice message services, and protocol translation between customer equipment and software;

(14) "Enhanced service provider" means a person that supplies enhanced services by using open network architecture services furnished by a local exchange company, including the enhanced services operation of a local ex-

change company and an interexchange carrier acting as an enhanced service provider. An interexchange carrier acts as an enhanced service provider only when it provides enhanced services to customers separate from its provision of basic services;

(15) "Interexchange carrier" means a provider of basic services, except extended area service, between local exchanges;

(16) "Joint marketing" means the offering of enhanced and basic services by a local exchange company to customers either through contact initiated by the local exchange company or through contact initiated by the customer;

(17) "Local exchange company affiliate" means a person separate from the local exchange company that is either an affiliated interest or another company in which the local exchange company owns a controlling interest;

(18) "Non-structural safeguards" means measures to prevent undue discrimination and cross-subsidy of a local exchange company's enhanced service operations from the local exchange company's basic service operations. These measures include accounting rules, service unbundling, imputation, service deployment requirements, joint marketing, and customer proprietary network information restrictions;

(19) "Open network architecture services" means basic serving arrangements, access elements, basic service elements, complementary network services, ancillary services, collocation, and virtual collocation as defined in this chapter;

(20) "Operations support systems" means services which support various network operation functions such as provision of service, performance monitoring, and maintenance. Operations support systems can be classified as an ancillary service;

(21) "Person" means any natural person or an entity such as a corporation, partnership, municipal corporation agency, or association;

(22) "Structural safeguards" means measures to prevent undue discrimination and cross-subsidy of a local exchange company's enhanced service operations from the local exchange company's basic services operations by employing separate personnel and facilities for enhanced services or a separate local exchange company affiliate for enhanced services;

(23) "Unbundling" means disaggregation of a service into building blocks or groups of building blocks which are offered to customers as separate services;

(24) "Unhooking" means any activity by a local exchange company that encourages a customer or prospective customer of an enhanced service provider to switch to the local exchange company's version of the same or substantially similar enhanced service at the time the enhanced service provider's customer contacts the local exchange company to obtain basic services which are necessary for operation of the enhanced service; and

(25) "Virtual collocation" means a service, offered by a local exchange company, that provides for placement and installation of customer selected equipment, software, and databases on local exchange company premises. Premises include central offices, remote network facilities, or any other similar location owned by the local exchange company. The equipment, software, and databases are owned and maintained by the local exchange company.

WAC 480-124-030 Extent of unbundling. (1) In order to encourage the development of enhanced services and provide for a more competitive enhanced services market, local exchange companies shall unbundle their local exchange and exchange access services subject to conditions provided in these rules.

(2) Unless otherwise ordered by the commission, within six months following adoption of this rule, local exchange companies shall create basic service elements and complementary network services by separating all optional features and functions from existing basic services in their intrastate local exchange and interexchange access tariffs.

(3) At least six months prior to offering any enhanced service, a local exchange company shall create ancillary services by separating such services from existing basic services in their intrastate local exchange and interexchange access tariffs.

(4) Basic service elements, complementary network services, and ancillary services shall be offered to customers without requiring purchase of a basic serving arrangement or any other service.

(5) Local exchange companies that currently offer an enhanced service shall comply with sub-sections (3) and (4) of this section within six months following adoption of this rule.

(6) Nothing in this rule shall preclude a local exchange company from combining access elements, basic service elements, complementary network services, and ancillary services in order to create additional services provided that the unbundled services are also offered to customers separately.

(7) The local exchange companies shall unbundle basic serving arrangements into access elements, complementary network services, and basic service elements. The level, extent, and implementation of basic serving arrangement unbundling will be determined by commission order or as provided in sub-section (8) of this section.

(8) Unless otherwise ordered by the commission, local exchange companies shall submit tariffs with an effective date no later than six months following adoption of this rule, which unbundle basic serving arrangements into access elements, complementary network services, and basic service elements.

(9) Customers shall be permitted to request access elements as part of the request process for open network architecture services as provided in WAC 480-124-060. A local exchange company may elect to implement the resulting new open network architecture service but will not be required to do so until it has unbundled basic serving arrangements according to the provisions of sub-sections (7) and (8) of this section.

WAC 480-124-040 Tariffing. (1) Tariff nomenclature and service descriptions for open network architecture services shall be as consistent as possible with those adopted as of December 1, 1993, by the Information Industry Liaison Committee, copies of which are available for examination at the commission library. Each local exchange company shall maintain a separate section of either its local exchange or interexchange access tariffs containing a listing of all

intrastate open network architecture services offered by the local exchange company, or shall maintain a separate open network architecture tariff containing such a listing. The separate open network architecture section or tariff shall refer to appropriate tariff sections and price lists for each open network architecture service and shall include a compatibility matrix. The compatibility matrix shall indicate which basic serving arrangements and access elements are compatible with each basic service element, complementary network service, and ancillary service offered by the local exchange company.

(2) Optional features and functions may be classified by a local exchange company as either basic service elements, complementary network services, or both.

(3) Open network architecture services shall be made available in all tariffs where applicable.

(4) When a basic serving arrangement is unbundled under the provisions of WAC 480-124-030 (7), (8), and (9), the resulting services shall be tariffed as access elements, basic service elements, and complementary network services.

WAC 480-124-050 Rates for open network architecture services. (1) Rates for open network architecture services, except for those open network architecture services that have been classified as competitive pursuant to RCW 80.36.330, shall be published in tariffs. Rates for open network architecture services that have been classified as competitive pursuant to RCW 80.36.330 shall be published in the company's price list.

(2) Rates for open network architecture services, except for those open network architecture services that have been classified as competitive pursuant to RCW 80.36.330, shall be determined on a cost basis and must be fair, just, reasonable, and sufficient in accordance with RCW 80.36.080. Rates for open network architecture services that have been classified as competitive pursuant to RCW 80.36.330 shall cover their costs as provided by RCW 80.36.330(3).

(3) Rates for open network architecture services contained in a local exchange company's interexchange access tariff shall be equal to rates charged for the same open network architecture services when they are offered in the local exchange company's local exchange tariffs, unless there are regulatory policy or cost differences.

(4) Open network architecture services that have been classified as competitive pursuant to RCW 80.36.330 shall not be subsidized by noncompetitive services.

(5) Rates for collocation and virtual collocation may include elements for safety, security, floor space, power, maintenance, and other relevant costs.

WAC 480-124-060 Deployment of open network architecture services. (1) Local exchange companies shall issue an annual report providing a three-year deployment projection of open network architecture services availability by market area. The annual report shall identify and fully describe the current capabilities of each wire center, all open network architecture services that have become available since the previous report, and all open network architecture services that the local exchange company expects to make

available within the ensuing three years. The annual report shall be filed with the commission by January 1. The first report shall describe current capabilities and be due January 1, 1995. Local exchange companies shall provide the annual report to customers upon request.

(2) Upon request, local exchange companies shall make available to customers references which provide the technical specifications of local exchange company interfaces that could affect customer premises equipment or the functions provided to customers for the purpose of providing enhanced services.

(3) All requests for open network architecture services shall be promptly evaluated by the local exchange company. A request to unbundle an existing service shall be considered a request for an open network architecture service.

(a) Each local exchange company shall establish an open network architecture service request process within six months following adoption of this rule and make information about such process available to customers upon request.

(b) The local exchange company shall inform the requesting customer whether the request is complete within 14 days of receiving the request. Within the 14 days, the local exchange company shall return an incomplete request to the customer together with a detailed explanation of deficiencies and directions for correcting such deficiencies.

(c) Schedules for implementing open network architecture services may deviate from these rules by mutual agreement between the local exchange company and the requesting customer.

(d) Local exchange companies must use the same processes, criteria, and cost methods to evaluate open network architecture service requests from their own enhanced services operations as they use to evaluate requests from other customers.

(4) Complete requests for open network architecture services other than collocation and virtual collocation shall be evaluated pursuant to the following requirements:

(a) the local exchange company shall provide a written response to the customer within 120 days of receipt. A status report shall be provided to the customer within 80 days of receipt; and

(b) the local exchange company shall implement the request by offering the service under tariffs, or by contract filed in accordance with RCW 80.36.150, if the service is feasible based on currently available technology and forecasted demand is sufficient to allow the local exchange company to recover its cost. The local exchange company shall implement the request as soon as practical and in any event no later than 12 months following the receipt of the customer's request. Implementation of access elements is the only exception. Access elements shall be implemented as prescribed in WAC 480-124-030 (7), (8), and (9).

(5) Complete requests for collocation and virtual collocation shall be evaluated pursuant to the following requirements:

(a) the local exchange company shall provide a written response to the customer within 45 days of receipt;

(b) the local exchange company shall implement the request as soon as feasible and in any event no later than six months after the receipt of the request; and

(c) the local exchange company shall implement a request for collocation or virtual collocation by offering the

service in tariffs, or by contract filed in accordance with RCW 80.36.150, if there is sufficient space or capacity and all applicable requirements in WAC 480-124-070(5) and 480-124-100 are met.

(6) A local exchange company that rejects a request for an open network architecture service shall inform the requesting customer of any alternative arrangements that will perform the same or similar function.

(7) Local exchange companies shall maintain a detailed record of all requests made by customers for open network architecture services. At a minimum, such records shall contain the name of the requesting customer, the date of the request, the specific type of service requested, the local exchange company's planned and actual response dates, the criteria and cost methods used to evaluate the request, and the response of the local exchange company to the request. Such records shall be subject to audit by the commission.

(8) Disputes concerning requests for open network architecture services are subject to the complaint process in WAC 480-124-120.

WAC 480-124-070 Availability of open network architecture services. (1) A local exchange company that offers enhanced services on either a price listed or tariffed basis shall charge or impute to its own enhanced services operation the same tariffed or price listed rates for open network architecture services that the local exchange company offers to its customers.

(2) Local exchange companies that offer open network architecture services shall not give any advantage to their own enhanced services operation or otherwise discriminate regarding service availability, ordering, providing service and repair, and access to technical standards.

(3) Local exchange companies shall not impose use and user restrictions on open network architecture services except as authorized by the commission.

(4) A local exchange company that offers enhanced services on either a price listed or tariffed basis shall make billing and collection available as an ancillary service to enhanced service providers that provide enhanced services in direct competition with comparable enhanced services provided by the local exchange company at rates, terms, and conditions which are equivalent to service operations. Local exchange companies shall also offer to enhanced service providers information which the local exchange company can capture in the local exchange company's network that enhanced service providers could use to bill for enhanced services.

(5) A local exchange company that offers enhanced services on either a price listed or tariffed basis shall make any operations support systems service defined as an open network architecture service under this chapter available as an ancillary service to customers, pursuant to WAC 480-124-060 (1), (2), (3), (6), (7), and (8). All customer requests for operations support systems services not defined as open network architecture services under this chapter must be approved by the commission unless there is a mutual agreement between the local exchange company and the requesting customer.

(6) All facilities connected to, or interacting with, the facilities of a local exchange company shall be operated in a manner that will not impede the local exchange company's ability to meet standards of service required pursuant to the commission's telecommunications service quality rules (WAC 480-120-500-535). All local exchange companies shall report situations contrary to this requirement promptly to the commission.

WAC 480-124-080 Access to customer proprietary network information. (1) If a local exchange company makes aggregate customer proprietary network information available to its personnel who are involved in enhanced services operation, the same information shall be available without delay to customers under the same rates, terms, and conditions. Local exchange companies must use the same processes, criteria, and cost methods to evaluate requests for aggregate customer proprietary network information from their own operation as are used to evaluate requests from customers.

(2) Local exchange company personnel involved in marketing enhanced services shall be permitted access to customer proprietary network information without prior written authorization from individual customers, unless a customer has specifically requested restriction of customer proprietary network information. In instances where a customer has requested restriction of customer proprietary network information, access to such information shall be limited to local exchange company personnel who are not involved in marketing enhanced services. Local exchange companies shall provide a simple and convenient way for customers to request such restriction of their customer proprietary network information.

(3) Local exchange companies that offer enhanced services shall mail a notification to each customer with more than 20 access lines describing the customer's right to restrict customer proprietary network information access to local exchange company personnel who are not involved in marketing enhanced services. Such notification shall be mailed within six months of the adoption of this chapter and annually thereafter. Such notification shall also be provided to customers with more than 20 access lines within 30 days of initiating service. Local exchange companies shall also prominently display a comparable notification to all customers in the local exchange companies' local telephone directories. A local exchange company shall comply with the preceding notification requirements at least six months prior to the date the local exchange company first begins to offer enhanced services.

(4) A local exchange company shall release a customer's customer proprietary network information to a third party only after the customer has authorized the local exchange company to release such customer proprietary network information to the third party. A third party is any person other than the customer and the local exchange company. A local exchange company affiliate is a third party.

(5) Each local exchange company shall specifically state in its tariffs the terms and conditions for providing customer

proprietary network information and aggregate customer proprietary network information.

WAC 480-124-090 Joint marketing. (1) Subject to conditions provided in these rules, local exchange companies shall be permitted to engage in joint marketing. As part of joint marketing, the local exchange companies shall be allowed to use customer proprietary network information in accordance with WAC 480-124-080.

(2) Local exchange companies shall not engage in unhooking.

(3) Whenever local exchange company personnel provide information about enhanced services in the course of a customer contact involving basic services, the local exchange company shall advise the customer that similar enhanced services may be available from other providers. The local exchange company shall so advise customers before taking an order for an enhanced service.

(4) A customer who subscribes to a local exchange company's enhanced service shall have seven days to cancel without cost or penalty. The local exchange company shall inform customers of this right at the time the order is placed.

(5) Local exchange companies shall not use customer proprietary network information to create lists of prospective enhanced services subscribers for use in unsolicited direct sales such as telemarketing and direct mail, except local exchange companies may create such lists using the customer proprietary network information of any subscriber who has authorized the local exchange company to use the subscriber's customer proprietary network information for that purpose.

WAC 480-124-100 Collocation and virtual collocation. (1) Local exchange companies shall offer collocation and virtual collocation, within six months of adoption of this rule, to customers as provided in this chapter.

(2) Software and database collocation shall be limited to facilities designed for external applications such as rapid delivery platforms, service nodes, or memory partitions. All requests for software and database collocation must be approved by the commission unless there is mutual agreement for such collocation between the local exchange company and the requesting customer.

(3) A local exchange company shall require customers to meet the following collocation requirements:

(a) collocation space shall not be accessible by the general public. Customers shall comply with all reasonable security requirements of the local exchange company. Customers shall permit local exchange company personnel to enter and inspect collocation space upon 24 hours notice, and only in the presence of a customer representative, except the local exchange company personnel may immediately enter in the event of an emergency;

(b) customers shall be responsible for the installation, operation, and maintenance of their own equipment. Local exchange companies may offer installation, operation, and maintenance services to customers. Equipment compatibility shall be the responsibility of the customer;

(c) customers are required to maintain comprehensive general liability insurance, including protection against death, personal injury, and property damage, issued by a company qualified to do business in the state of Washington, in an amount of not less than \$1 million;

(d) customers are required to indemnify the local exchange company in the event there is damage to local exchange company equipment or if the local exchange company's security is compromised as a result of the customer's negligence or intentional misuse; and

(e) customers shall request collocation in writing. The request shall specify technical and space requirements.

(4) Local exchange companies shall meet the following collocation requirements:

(a) if a customer has complied with all collocation requirements specified in this chapter, the local exchange company shall permit the customer to collocate without regard to the technology employed by the customer;

(b) a local exchange company shall permit access to a customer's collocated facilities by authorized representatives of the customer. The local exchange company shall maintain and control access to its facilities to ensure the safety and security of persons and property;

(c) a local exchange company shall be required to indemnify the collocated customer against death, personal injury, and property damage caused by the local exchange company's negligence or intentional misuse;

(d) a local exchange company shall assign space for collocation on a first-come, first-served basis based on the date the local exchange company receives a collocation request. The local exchange company shall maintain records documenting requests for collocation;

(e) in the event a local exchange company states it does not have sufficient space to allow for collocation and the customer disputes the local exchange company's assertion, the commission's staff shall inspect the proposed point of collocation to verify the lack of space. If the commission's staff verifies that space is not available, the local exchange company shall deny collocation to the customer and offer the customer virtual collocation and comparably efficient interconnection arrangements;

(f) expansion of the local exchange company's enhanced services operation shall not take precedence over existing written requests for collocation. In the event a local exchange company requires space for basic services which is otherwise occupied by a customer, the local exchange company shall give the customer at least 12 months written notice to vacate. Customers shall vacate on a last-in, first-out basis or as mutually agreed in advance by all affected parties. Customers so forced to vacate shall be offered virtual collocation and comparably efficient interconnection arrangements;

(g) in the event it is necessary for a local exchange company to construct or modify existing space to collocate a customer, the local exchange company may require the customer to pay the reasonable construction costs for the construction of segregated space in a local exchange company facility. Thereafter, the local exchange company may charge a monthly service charge for the use of the segregated space;

(h) local exchange companies shall permit customers to monitor, test, and control the customer's collocated equipment either on site or remotely;

(i) local exchange companies shall permit a customer to transmit information, including signaling and protocols, through the local exchange company's network without interference or manipulation; and

(j) to the extent that a local exchange company provides enhanced services by means of computer software operating in a processor external to its central office switches, the local exchange company shall make available to customers the same interfaces the local exchange company uses to enable communications between its switches and such external processor.

(5) A local exchange company shall require customers to request virtual collocation in writing. Requests shall specify which equipment, software, and databases the customer requires.

(6) Local exchange companies shall meet the following virtual collocation requirements:

(a) a local exchange company shall permit access for inspection purposes by authorized representatives of the customer. The local exchange company shall maintain and control access to its facilities to ensure the safety and security of persons and property;

(b) a local exchange company shall assign space for virtual collocation a first-come, first-served basis based on the date the local exchange company receives a request. The local exchange company shall maintain records documenting requests for virtual collocation;

(c) in the event a local exchange company states it does not have sufficient space to allow for virtual collocation and the customer disputes the local exchange company's assertion, the commission's staff shall inspect the proposed point of virtual collocation to verify the lack of space. If the commission's staff verifies that space is not available, the local exchange company shall deny virtual collocation to the customer and offer the customer comparably efficient interconnection arrangements;

(d) expansion of the local exchange company's enhanced services operation shall not take precedence over any existing written requests for virtual collocation. In the event a local exchange company requires space for basic services which is otherwise occupied by a customer, the local exchange company shall give the customer at least 12 months written notice to vacate. Customers shall vacate on a last-in, first-out basis or as agreed in advance by all affected parties. Customers so forced to vacate shall be offered comparably efficient interconnection arrangements;

(e) in the event it is necessary for a local exchange company to construct or modify existing space to virtually collocate a customer, the local exchange company may require the customer to pay reasonable construction costs;

(f) local exchange companies shall permit customers to monitor, test, and control the virtually collocated equipment;

(g) local exchange companies shall permit a customer to transmit information, including signaling and protocols, through the local exchange company's network without interference or manipulation; and

(h) to the extent that a local exchange company provides enhanced services by means of computer software operating in a processor external to its central office switches, the local

exchange company shall make available to customers the same interfaces the local exchange company uses to enable communications between its switches and such external processor.

(7) Disputes concerning collocation and virtual collocation are subject to the complaint process in WAC 480-124-120.

WAC 480-124-110 Safeguards. (1) Local exchange companies that offer enhanced services shall be permitted to provide enhanced services on an integrated basis using the non-structural safeguards and non-discriminatory requirements provided in these rules. Accordingly, local exchange companies shall be allowed to use common personnel and facilities to provide basic and enhanced services, including enhanced services classified as competitive telecommunications services.

(2) If a complaint is filed pursuant to RCW 80.04.110 alleging that a local exchange company has discriminated against competitors or has misallocated costs and revenues between enhanced and basic services and, after notice and hearing, the commission determines that the allegations in the complaint are verified, the commission shall impose appropriate remedies, including, but not limited to, mandating structural safeguards, ratemaking adjustments, and terminating or restricting the local exchange company's enhanced service offerings.

WAC 480-124-120 Dispute resolution. (1) If a local exchange company denies a request for open network architecture services, the local exchange company shall advise the customer as to the specific reasons and provide the customer reasonable opportunity to resolve problems identified by the local exchange company. The customer or local exchange company may seek assistance from the commission and its staff to resolve the dispute before filing a complaint under this rule.

(2) If a local exchange company rejects a customer's request for an open network architecture service, or if a customer is not satisfied with a local exchange company's response to such a request, the customer may bring a complaint before the commission under RCW 80.04.110. If a complaint is filed based upon a rejection of a request for service, the commission shall determine whether the requested open network architecture service is viable, as defined in WAC 480-124-060 (4)(b). If the complaint relates to the timeliness of the local exchange company's response, or the implementation schedule, rates, terms, or conditions of providing the service, the commission shall determine the reasonableness of the local exchange company's actions or positions.

(3) If a local exchange company specifically rejects a customer's request for collocation or virtual collocation, or if the local exchange company's implementation schedule, rates, terms, or conditions for collocation or virtual collocation are considered unsatisfactory by the customer, the customer may bring a complaint before the commission under RCW 80.04.110. A customer may also bring a complaint under RCW 80.04.110 if the customer is not

satisfied with the comparably efficient interconnection arrangements offered by the local exchange company. The commission shall determine whether collocation or virtual collocation should be allowed or, if applicable, whether alternative arrangements meet the comparably efficient interconnection requirement. If the customer's complaint relates to implementation schedule, rates, terms, or conditions of collocation or virtual collocation, the commission shall determine whether the local exchange company's action or position is justified.

**WSR 94-01-192
PROPOSED RULES
INSURANCE COMMISSIONER
[Filed December 22, 1993, 11:04 a.m.]**

Original Notice.

Title of Rule: Audited financial statements and statement of actuarial opinion.

Purpose: To enhance the surveillance of the financial condition, and create uniform reporting, of insurers, certified health plans, health care service contractors, and health maintenance organizations.

Other Identifying Information: Insurance Commissioner Matter No. R 94-02.

Statutory Authority for Adoption: RCW 48.02.060, 48.43.140, 48.44.050, and 48.46.200.

Statute Being Implemented: RCW 48.05.250, 48.43.050, 48.44.095, and 48.46.080.

Summary: To establish requirements for annual audited financial statements and actuarial opinions.

Reasons Supporting Proposal: This regulation is needed to implement the statutes and to enhance financial surveillance.

Name of Agency Personnel Responsible for Drafting: Dennis Edward Julnes, Insurance Building, Olympia, Washington, (206) 586-5592; Implementation and Enforcement: John B. Woodall, Insurance Building, Olympia, Washington, (206) 753-7303.

Name of Proponent: Deborah Senn, Insurance Commissioner, governmental.

Rule is not necessitated by federal law, federal or state court decision.

Explanation of Rule, its Purpose, and Anticipated Effects: Prescribes and gives instructions for filing audited financial statements and statements of actuarial opinions for insurers, certified health plans, health care service contractors, and health maintenance organizations. This rule will amend WAC 284-07-060, 284-07-110, 284-07-130, 284-07-140, 284-07-180, 284-07-220, and 284-07-100.

Proposal Changes the Following Existing Rules: Includes certified health plans, health care service contractors, and health maintenance organizations into existing rules on audited financial statements and actuarial opinions.

Small Business Economic Impact Statement: Most insurers, certified health plans, health care service contractors, and health maintenance organizations (insurers) will be required to employ the services of an independent certified public accountant and an actuary to comply with the proposed rules. The cost of complying should not be a significant or additional financial burden, because most insurers

already have audited financial statements and actuarial opinions. Further, if these insurers transact business in other states, other states also impose the CPA audit and actuarial opinion requirement. The uniform rule will place most certified health plans, health care service contractors, and health maintenance organizations on an equal footing with most insurers for financial reporting. The cost of compliance per employee or per hour of labor for small or large business should be zero. Whatever cost there is results from employment of outside accountants and an actuary. The audited financial statement rules, in accord with the National Association of Insurance Commissioners model, will exempt insurers having direct premiums in this state of less than one million dollars in a calendar year and less than one thousand policyholders, subscribers, or certificateholders or directly written policies nationwide at the end of such calendar year, from the requirements for audited financial statements, unless the commissioner finds that compliance is necessary to carry out statutory duties. While not geared to the number of employees, presumably a "small business" insurer, would more likely fall within the exemption. Further, the amended WAC 284-07-220 will permit any insurer, certified health plan, health care service contractor, and health maintenance organization, to apply to the commissioner for exemption from compliance with the audited financial statement rules, which may be granted if the commissioner finds that compliance would constitute a financial or organizational hardship upon the insurer. Relief for the "small business" insurer, therefore, is available under the proposed rules to minimize the economic impact of the audited financial statement rules. The rule for the actuary opinion does not have an exemption except for property and casualty insurers as per the NAIC Annual Statement Instructions. Also, there will be no effect on most insurers because most insurers already file actuarial opinions with the commissioner.

Hearing Location: Insurance commissioner's Office, Insurance Building, Second Floor Conference Room, Olympia, Washington, on January 25, 1994, at 9:00 a.m.

Submit Written Comments to: Insurance commissioner, Insurance Building, P.O. Box 40255, Olympia, WA 98504-0255, by January 25, 1994.

Date of Intended Adoption: January 27, 1994.

December 21, 1993

Deborah Senn

Insurance Commissioner

AMENDATORY SECTION (Amending Order R 93-1, filed 3/8/93, effective 4/8/93)

WAC 284-07-060 Statement of actuarial opinion. ~~((The NAIC annual statement instructions for property and casualty insurers require such insurers to submit with the annual statement the statement of a qualified actuary, entitled "Statement of Actuarial Opinion," setting forth his or her opinion relating to loss and loss adjustment expense reserves.))~~ (1) For purposes of this section "insurer" has the same meaning as set forth in RCW 48.01.050. It also includes a certified health plan registered under chapter 48.43 RCW, health care service contractor registered under chapter 48.44 RCW and health maintenance organizations registered under chapter 48.46 RCW.

(2) Each insurer shall include with its annual statement, a statement from a qualified actuary, as defined in WAC 284-05-060, or as defined in subsection (4) of this section for domestic property and casualty insurers, entitled "Statement of Actuarial Opinion," setting forth the actuary's opinion relating to the insurer's reserves and other actuarial items, prepared in accordance with the appropriate Annual Statement Instructions and Accounting Practices and Procedures Manuals promulgated by the National Association of Insurance Commissioners. If an exemption is allowed by the Annual Statement Instructions and is approved by the domiciliary commissioner, an insurer shall be exempt from this requirement (unless the commissioner of Washington makes a specific finding, by order, bulletin, letter, or otherwise, that for a specific insurer, or one or more insurers, company compliance is necessary to carry out the commissioner's statutory responsibilities). A certified copy of the approved exemption must be filed with the annual statement in all jurisdictions in which the company is authorized.

(3) This section does not relieve an insurer from its obligation to comply with other requirements of the insurance code or rules thereunder.

(4) With respect to statements of actuarial opinion for property and casualty insurers domiciled in this state, a person can demonstrate competency in loss reserve evaluation, and thus be considered to be a qualified actuary, only by being:

~~((1))~~ (a) A member in good standing of the Casualty Actuarial Society; or

~~((2))~~ (b) A member in good standing of the American Academy of Actuaries who has been approved as qualified for signing casualty loss reserve opinions by the Casualty Practice Council of the American Academy of Actuaries~~((c))~~; or

~~((3))~~ (c) A person with documented experience, skill, and knowledge substantially equivalent to that required for either ~~((subsection (1) or (2) of this section))~~ (a) or (b) of this subsection, acceptable to the commissioner. A person qualifying under this alternative ~~((3))~~ (c) must be approved in advance by the commissioner, as prescribed by the Annual Statement Instructions.

AMENDATORY SECTION (Amending Order R 92-10, filed 9/9/92, effective 10/10/92)

WAC 284-07-100 Purpose and scope. (1) The purpose of this regulation, WAC 284-07-100 through 284-07-230, is to improve the Washington state insurance commissioner's surveillance of the financial condition of insurers by requiring an annual examination by independent certified public accountants of the financial statements reporting the financial position and the results of operations of insurers.

(2) Every insurer, as defined in WAC 284-07-110, shall be subject to this regulation. Insurers having direct premiums written ~~((in this state))~~ of less than one million dollars in any calendar year and less than one thousand policyholders or certificateholders of directly written policies nationwide at the end of such calendar year shall be exempt from this rule for such year (unless the commissioner makes a specific finding that compliance is necessary for the com-

missioner to carry out statutory responsibilities) except that insurers having assumed premiums pursuant to contracts and/or treaties of reinsurance of one million dollars or more will not be so exempt.

(3) Foreign or alien insurers filing audited financial reports in another state, pursuant to such other state's requirement of audited financial reports which has been found by the commissioner to be substantially similar to the requirements herein, are exempt from this rule if:

(a) A copy of the Audited Financial Report, Report on Significant Deficiencies in Internal Controls, and the Accountant's Letter of Qualifications which are filed with such other state are filed with the commissioner in accordance with the filing dates specified in WAC 284-07-120, 284-07-190 and 284-07-200, respectively; and

(b) A copy of any Notification of Adverse Financial Condition Report filed with such other state is filed with the commissioner within the time specified in WAC 284-07-180.

Canadian insurers may submit accountants' reports as filed with the Canadian Dominion Department of Insurance.

(4) This rule shall not prohibit, preclude, or in any way limit the commissioner from ordering, conducting, or performing examinations of insurers under the rules, regulations, practices, and procedures of the insurance commissioner.

AMENDATORY SECTION (Amending Order R 92-10, filed 9/9/92, effective 10/10/92)

WAC 284-07-110 Definitions. For the purposes of this regulation the following definitions shall apply:

(1) "Audited financial report" means and includes those items specified in WAC 284-07-130.

(2) "Accountant" and "independent certified public accountant" mean an independent certified public accountant or accounting firm in good standing with the American Institute of Certified Public Accountants and in all states in which they are licensed to practice; for Canadian and British companies, the terms mean a "Canadian-chartered or British-chartered accountant."

(3) "Insurer" (~~means an insurer with a certificate of authority to transact the business of insurance in the state of Washington~~) has the same meaning as set forth in RCW 48.01.050. It also includes a certified health plan registered under chapter 48.43 RCW, health care service contractor registered under chapter 48.44 RCW and health maintenance organizations registered under chapter 48.46 RCW.

(4) "NAIC" means National Association of Insurance Commissioners.

(5) "Policy holder" shall also mean subscriber.

AMENDATORY SECTION (Amending Order R 92-10, filed 9/9/92, effective 10/10/92)

WAC 284-07-130 Contents of annual audited financial report. (1) The annual audited financial report shall report the financial position of the insurer as of the end of the most recent calendar year and the results of its operations, cash flows, and changes in capital and surplus for the year then ended in conformity with statutory accounting practices prescribed, or otherwise permitted, by the commissioner.

(2) The annual audited financial report shall include the following:

(a) Report of independent certified public accountant.

(b) Balance sheet reporting admitted assets, liabilities, capital, and surplus.

(c) Statement of operations.

(d) Statement of cash flows.

(e) Statement of changes in capital and surplus.

(f) Notes to financial statements. These notes shall be those required by the appropriate NAIC Annual Statement Instructions and any other notes required by generally accepted accounting principles and shall also include:

(i) A reconciliation of differences, if any, between the audited statutory financial statements and the annual statement filed pursuant to RCW 48.05.250, 48.43.050, 48.44.095, or 48.46.080 with a written description of the nature of these differences.

(ii) A summary of ownership and relationships of the insurer and all affiliated companies.

(g) The financial statements included in the audited financial report shall be prepared in a form and using language and groupings substantially the same as the relevant sections of the annual statement of the insurer filed with the commissioner, and the financial statements shall be comparative, presenting the amounts as of December 31. However, in the first year in which an insurer is required to file an audited financial report, the comparative data may be omitted.

AMENDATORY SECTION (Amending Order R 92-10, filed 9/9/92, effective 10/10/92)

WAC 284-07-140 Designation of independent certified public accountant. (1) Each insurer required by this regulation to file an annual audited financial report must, within sixty days after becoming subject to such requirement, register with the commissioner in writing the name and address of the independent certified public accountant or accounting firm retained to conduct the annual audit required by this regulation. Each insurer((s)) not retaining an independent certified public accountant on the effective date of this rule, or the date on which this rule becomes applicable to it, shall register the name and address of their retained certified public accountant not less than ((six)) two months before the date when the first audited financial report is to be filed.

(2) The insurer shall obtain a letter from the accountant, and file a copy with the commissioner stating that the accountant is aware of the provisions of the Washington state insurance code, Title 48, and the rules and regulations thereunder, that relate to accounting and financial matters and affirming that the accountant will express his or her opinion on the financial statements in terms of their conformity to the statutory accounting practices prescribed or otherwise permitted by the commissioner, specifying such exceptions as are believed appropriate.

(3) If an accountant who was the accountant for the immediately preceding filed audited financial report is dismissed or resigns, the insurer shall, within five business days, notify the commissioner of this event. The insurer shall also furnish the commissioner with a separate letter within ten business days of the above notification stating

whether in the twenty-four months preceding such event there were any disagreements with the former accountant on any matter of accounting principles or practices, financial statement disclosure, or auditing scope or procedure, which disagreements, if not resolved to the satisfaction of the former accountant, would have caused him to make reference to the subject matter of the disagreement in connection with his opinion. The disagreements required to be reported in response to this section include both those resolved to the former accountant's satisfaction and those not resolved to the former accountant's satisfaction. Disagreements contemplated by this section are those that occur at the decision-making level, i.e., between personnel of the insurer responsible for presentation of its financial statements and personnel of the accounting firm responsible for rendering its report. The insurer shall also in writing request such former accountant to furnish a letter addressed to the insurer stating whether the accountant agrees with the statements contained in the insurer's letter and, if not, stating the reasons for disagreement; and the insurer shall furnish such responsive letter from the former accountant to the commissioner together with its own.

AMENDATORY SECTION (Amending Order R 92-10, filed 9/9/92, effective 10/10/92)

WAC 284-07-180 Notification of adverse financial condition. (1) The insurer required to furnish the annual audited financial report shall require the independent certified public accountant to report, in writing, within five business days to the board of directors or its audit committee any determination by the independent certified public accountant that the insurer has materially misstated its financial condition as reported to the commissioner as of the balance sheet date currently under examination or that the insurer does not meet the minimum capital and surplus or net worth requirements of the Washington state insurance code as of that date. An insurer who has received a report pursuant to this subsection shall forward a copy of the report to the commissioner within five business days of receipt of such report and shall provide the independent certified public accountant making the report with evidence of the report being furnished to the commissioner. If the independent certified public accountant fails to receive such evidence within the required five business day period, the independent certified public accountant shall furnish to the commissioner a copy of its report within the next five business days.

(2) No independent public accountant shall, by virtue of this regulation, be liable in any manner to any person for any statement made in connection with subsection (1) of this section if such statement is made in good faith in compliance with subsection (1) of this section.

(3) If the accountant, subsequent to the date of the audited financial report filed pursuant to this regulation, becomes aware of facts which might have affected his or her report, the accountant should take such action as is prescribed in Volume 1, Section AU 561 of the Professional Standards of the American Institute of Certified Public Accountants.

AMENDATORY SECTION (Amending Order R 92-10, filed 9/9/92, effective 10/10/92)

WAC 284-07-220 Exemptions and effective dates.

(1) Upon written application of any insurer, the commissioner may grant an exemption from compliance with this regulation if the commissioner finds, upon review of the application, that compliance would constitute a financial or organizational hardship upon the insurer. An exemption may be granted at any time and from time to time for a specified period or periods. Within ten days from a denial of an insurer's written request for an exemption from this regulation, such insurer may request in writing a hearing on its application for an exemption. Such hearing shall be held in accordance with the rules and procedures pertaining to administrative hearings.

(2) Domestic insurers retaining a certified public accountant on the effective date of this regulation who (~~qualify~~) qualifies as independent shall comply with this regulation for the year ending December 31, 1992, and each year thereafter unless the commissioner permits otherwise.

(3) Domestic insurers not retaining a certified public accountant on the effective date of this regulation who qualify as independent may meet the following schedule for compliance unless the commissioner permits otherwise.

(a) As of December 31, 1992, file with the commissioner:

- (i) Report of independent certified public accountant;
- (ii) Audited balance sheet;
- (iii) Notes to audited balance sheet.

(b) For the year ending December 31, 1992, and each year thereafter, such insurers shall file with the commissioner all reports required by this regulation.

(4) Foreign insurers shall comply with this regulation for the year ending December 31, 1992, and each year thereafter, unless the commissioner permits otherwise.

(5) An insurer who on December 31, 1993, was not subject to WAC 284-07-100 through 284-07-230, and who on that date retained a certified public accountant, who is qualified as independent, shall comply with this regulation for the year ending December 31, 1993, and each year thereafter unless the commissioner permits by order, bulletin, letter, or otherwise, for a specific insurer or any one or more insurers.

(6) An insurer who on December 31, 1993, was not subject to WAC 284-07-100 through 284-07-230, and who on that date did not retain a certified public accountant, who is qualified as independent, shall meet the following minimum schedule for compliance unless the commissioner permits by order, bulletin, letter, or otherwise, for a specific insurer or any one or more insurers.

(a) As of December 31, 1993, file with the commissioner by June 1, 1994:

- (i) Report of independent certified public accountant;
- (ii) Audited balance sheet;
- (iii) Notes to audited balance sheet.

(b) And, for the year ending December 31, 1994, and each year thereafter, such insurers shall file with the commissioner all reports required by this regulation.

WSR 94-01-001
PERMANENT RULES
DEPARTMENT OF FISHERIES

[Filed December 1, 1993, 12:11 p.m.]

Date of Adoption: November 30, 1993.

Purpose: Amend licensing rules.

Citation of Existing Rules Affected by this Order:

Repealing WAC 220-20-017, 220-55-080, 220-55-086, 220-55-090, 220-55-130, 220-55-140, 220-55-150 and 220-69-245; and amending WAC 220-20-050, 220-55-010, 220-55-015, 220-55-040, 220-55-050, 220-55-055, 220-55-060, 220-55-065, 220-55-070, 220-55-075, 220-55-100, 220-55-105, 220-55-110, 220-55-115, 220-55-120, 220-55-125, 220-69-220, 220-69-260, 220-69-270, and 220-69-273.

Statutory Authority for Adoption: RCW 75.08.080.

Pursuant to notice filed as WSR 93-20-109 on October 5, 1993.

Changes Other than Editing from Proposed to Adopted Version: WAC 220-20-050, change angler permit decals to annual decals, which will provide proof of current licensing; WAC 220-55-015, add provision that licenses to be carried on person by persons required to have a license; WAC 220-55-060, clarify that licenses are not required under RCW 75.25.091 or 75.25.092, but that the department will issue free licenses for the convenience of the fisher or harvester. Persons thus will not have to carry documentation that they are disabled veterans, senior residents, etc.; WAC 220-55-070, clarify that sturgeon catch record card is required in tributaries to Grays Harbor, Willapa Harbor and Columbia River; WAC 220-55-065, delete provision of disability permit being with fisher or harvester. Clarify that one quarter mile rule for razor clam diggers applies only in the case of visual obstruction; WAC 220-55-105, change provision that failure to remit license sales being unlawful, which places the offense within the fisheries code, to unlawful under the criminal code; WAC 220-55-125, do not repeal this section. Move "Duties of sport salmon and sturgeon catch record card issuers" from WAC 220-69-245 to chapter 220-55 WAC. Delete numerical sequence issuing provision. Require return of partially used books, but provide for accounting of unused books by mail; WAC 220-69-245, repeal and move provisions into chapter 220-55 WAC; WAC 220-69-260, change "cannery" to "Puget Sound"; and WAC 220-69-273, eliminate reference to duplicate license card as none will be issued.

Effective Date of Rule: Thirty-one days after filing.

December 1, 1993

Judith Freeman

Deputy

for Robert Turner

Director

AMENDATORY SECTION (Amending Order 87-150, filed 10/9/87)

WAC 220-20-050 Display of registration, salmon guide, and ~~((commercial license))~~ angler permit decals ~~((and identification numbers))~~. (1) At the time a vessel is first designated on any license pursuant to WAC 220-20-051, the department will issue a permanent vessel registration number and a set of two vessel registration decals. The vessel registration ~~((and commercial year license))~~ decals

~~((issued to each commercial fishing vessel by the licensing division of the department:~~

~~(1))~~ must be affixed to the registered ~~((and licensed))~~ vessel in a permanent manner~~((:~~

~~(2) Must))~~ and be ~~((affixed in such a manner that they are))~~ clearly visible from each side of the vessel.

(2) Salmon guides, upon designating a vessel to be used, will be issued salmon guide license decals for that vessel, which decals must be affixed to the vessel in a permanent manner and be clearly visible from each side of the vessel. Each guide using the vessel must have separate license decals for the vessel. Salmon guide license decals will be issued annually upon renewal of the salmon guide license.

(3) Angler permit decals will be issued annually to each salmon charter licensee upon designation of a vessel and the angler permit decals must be affixed to the vessel in a permanent manner and be clearly visible from each side of the vessel.

NEW SECTION

WAC 220-20-051 Vessel designation requirements.

(1) In any licensed fishery for which a vessel is required under chapter 75.28 RCW, or for any delivery of food fish or shellfish, or for any charter fishery, it is unlawful to fish for, harvest, deliver, or possess food fish or shellfish unless the licensee has designated the vessel from which the food fish or shellfish are to be taken or delivered, the department has issued a commercial license to the licensee showing the vessel so designated, and the vessel operator has the commercial license in physical possession.

(2) The following definitions apply to this section:

(a) "Documentation" means vessel documentation by the United States Coast Guard showing eligibility for fishery. Once documentation is presented as evidence of ownership it becomes the only acceptable evidence of ownership unless the vessel is remeasured, found to be less than five net tons and no longer eligible for documentation.

(b) "Initial designation" means the designation by an individual licensee of a vessel to be used in a commercial fishery, for delivery of food fish or shellfish, or for charter fishing. Designation by that licensee on additional licenses is not "initial designation," and required evidence of ownership is the same as for continuing designation.

(c) "Continuing designation" means reapplication for a commercial license with no change in vessel designation.

(3) A licensee does not have to own the vessel being designated on the license. However, each licensee initially designating a vessel, except nontransferable emergency salmon delivery licensees, and every licensee continuing designation after the fourth continuous designation must offer evidence of ownership. The following is the only acceptable evidence of ownership:

(a) For initial designation of a vessel measuring less than thirty-two feet in length, evidence of ownership may be either current state vessel registration or current documentation.

(b) For initial designation of a vessel thirty-two feet or greater in length, evidence of ownership is:

(i) Current documentation; or

(ii) Coast Guard verification that the vessel does not meet the minimum tonnage requirement for documentation (simplified admeasurement); or

(iii) Verification from the American Bureau of Shipping that the vessel does not meet the minimum tonnage requirement for documentation (formal admeasurement).

(c) For continuing designation of vessel less than thirty-two feet in length, evidence of ownership may be either current state vessel registration or current documentation.

(d) For continuing designation of a vessel between thirty-two and thirty-six feet in length, evidence of ownership is current state registration for vessels with state registration numbers or current documentation for documented vessels.

(e) For continuing designation of a vessel greater than thirty-six feet in length, evidence of ownership is:

(i) Current documentation; or

(ii) Coast Guard verification that the vessel does not meet the minimum tonnage requirement for documentation (simplified admeasurement); or

(iii) Verification from the American Bureau of Shipping that the vessel does not meet the minimum tonnage requirement for documentation (formal admeasurement).

(4) Every vessel designated to participate in a commercial fishery or to deliver food fish or shellfish must have the official Coast Guard documentation number or complete state registration number permanently displayed in ten-inch tall numbers, or letters and numbers, of proportionate width, clearly visible from each side of the vessel. It is unlawful to participate in a commercial fishery or deliver food fish or shellfish without having such numbers displayed. This subsection does not apply to salmon guide, charter or nontransferable emergency salmon delivery licensees.

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 220-20-017 Commercial fishing licenses—
Application and renewal.

NEW SECTION

WAC 220-55-005 Personal use food fish license. A personal use food fish license is a license card issued by the department and shall be color coded to designate resident, nonresident, two consecutive day, or senior citizen. The license is invalid unless the fisher identification information on the license has been completed and the fisher has signed the license. A license is invalid for taking salmon and other food fish from Catch Record Card Areas 5 through 13 and Lake Washington unless a recreational fisheries enhancement stamp has been permanently affixed to a license card in the space provided, and that license is in the physical possession of the fisher except that a recreational fisheries enhancement stamp is not required for two consecutive day licenses, five-year disability licenses or for any licenses issued at no cost. Any fisher who has filled a salmon catch record card and purchased another personal use food fish license in order to continue fishing for salmon need not purchase a second recreational fisheries enhancement stamp, provided the fisher

has the original license card with recreational fisheries enhancement stamp attached in the fisher's possession.

AMENDATORY SECTION (Amending Order 93-20, filed 3/31/93, effective 5/1/93)

WAC 220-55-010 ((Razor clam)) Personal use shellfish and seaweed license. A personal((-)use ((razor clam)) shellfish and seaweed license shall consist of a tag printed and issued by the department ((on which is printed the razor clam license number)). The ((razor clam)) license shall be provided with an opening for attachment or display on outer clothing and shall be color-coded to designate resident, nonresident, two consecutive day or senior citizen. The license shall be invalid unless the ((razor clam digger)) harvester information on the license has been completed and the ((digger)) harvester has signed the license.

AMENDATORY SECTION (Amending Order 89-05, filed 3/20/89)

WAC 220-55-015 Valid ((razor clam)) personal use license ((and tag)) required. (1) It ((shall be)) is unlawful for any person required to have a license to take or possess ((razor clams)) food fish or shellfish for personal use without having in ((his)) physical possession a valid ((razor clam)) license ((and razor clam tag)). ((The razor clam tag))

(2) A shellfish and seaweed license must be displayed on outer clothing while ((digging razor clams or in possession of razor clams on the digging beach)) harvesting or transporting shellfish in the field.

(3) The department will not replace lost or mutilated personal use licenses.

AMENDATORY SECTION (Amending Order 89-05, filed 3/20/89)

WAC 220-55-040 ((Prepaid recreational license issuing procedures.)) Free license definitions. ((Recreational license stamps will be distributed by the department or designated distribution agents to license dealers. The stamps may be sold to license dealers on a prepaid basis.)) For purposes of free licenses issued by the department:

(1) A person who is blind, or blind person, means a person who has no vision or whose vision with corrective lenses is so defective as to prevent the performance of ordinary activities for which eyesight is essential.

(2) Veteran means a veteran of the United States Armed Forces.

AMENDATORY SECTION (Amending Order 79-58, filed 8/10/79)

WAC 220-55-050 ((License sales reporting and fee remittances.)) Two consecutive day license validation date. ((Bonded dealers shall report license sales on forms provided by the department and remit receipts from those sales to the department no later than the tenth day of each month following the close of business for the previous calendar month.)) On a two consecutive day personal use food fish or shellfish and seaweed license, the validation date is the first date on which an angler may fish for, harvest or possess food fish and shellfish.

AMENDATORY SECTION (Amending Order 91-13, filed 4/2/91, effective 5/3/91)

WAC 220-55-055 (~~Free license issuing procedure.~~)

Personal use license and catch record card expiration. ~~((A free razor clam license shall be issued by the license supervisor or a dealer designated by the department of fisheries, to any qualified applicant. If a license is lost or becomes illegible, a new license must be obtained.))~~ The expiration date for all personal use licenses and catch record cards is December 31st of the year printed on the license or catch record card, except a two consecutive day license expires at midnight of the day after the validation date or December 31st, whichever occurs first, and a disability license expires five years after the date of issue.

AMENDATORY SECTION (Amending Order 89-05, filed 3/20/89)

WAC 220-55-060 (~~Recreational license stamp redemption.~~) **Free personal use license issuing procedure.**

~~((Recreational license stamps may be redeemed at face value by license dealers upon return to the license division of the department of fisheries, Olympia, Washington, not later than January 31 of the year following expiration, or by returning them by mail to that office, provided they are postmarked no later than January 31st.))~~ Upon request and presentation of required documentation, a free personal use license and catch record card will be issued by the license supervisor of the department to any qualified applicant under RCW 75.25.110. Persons not required to have a license under RCW 75.25.091 or 75.25.092 will be issued a free license, for their convenience, upon request. A lost, mutilated, or illegible free license will be replaced by the license supervisor upon request.

AMENDATORY SECTION (Amending Order 91-13, filed 4/2/91, effective 5/3/91)

WAC 220-55-065 (~~Expiration.~~) **Physical disability permit.**

~~((The expiration date of each resident or nonresident license and catch record card, unless otherwise provided, shall be December 31st of the year printed on the license or catch record card. In case of a free license, the license shall not expire, except a license issued to a person under 16 years of age shall expire on that person's 16th birthday. A two consecutive day personal use license shall expire at the close of the day after the validation date, except when the validation date is December 31st, in which case the expiration date is also December 31st.))~~ (1) Persons who are disabled, but are not entitled to a free license under RCW 75.25.110 or WAC 220-55-060, may obtain a physical disability permit upon application to the license supervisor of the department. Application must be made on a form supplied by the department and be accompanied by a statement of condition signed by a physician.

(2) Any personal use licensed fisher or shellfish harvester who has a disability permit and is present at the fishing or harvest site may have another personal use licensed fisher or harvester fish or harvest for the person who is disabled.

(3) A seaweed and shellfish licensee with a disability permit need not be present at the site for another licensee to harvest razor clams, but must be in a direct line of sight or

within one-quarter mile of the harvest site if the direct line of sight is obstructed. A person harvesting razor clams for a person who has a disability permit must keep his or her razor clams separate from the razor clams being harvested for the person who is disabled.

AMENDATORY SECTION (Amending Order 91-13, filed 4/2/91, effective 5/3/91)

WAC 220-55-070 **Valid catch record card.** A catch record card required while fishing for halibut in Catch Record Card Areas 5 through 13, sturgeon in Grays Harbor, Willapa Bay or the Columbia River and tributaries to these three systems, or anadromous salmon anywhere in the state (see WAC 220-56-175) shall be invalid unless:

(1) The angler possesses the appropriate personal use license ((stamp)) for the fishery in which the angler is participating, if a license ((stamp)) is required. ((A license stamp, issued by the department, is required to be affixed to the recreational license form of the angler if it is an annual license stamp, or in the angler's possession if it is a stamp for a two consecutive day personal use license and the angler can offer proof of identification equivalent to that of a personal use license form. Absent such proof, the stamp must be affixed to a personal use license form.))

(2) The catch record card number((, if required,)) is written in ink ((across the face of the stamp)) in the appropriate space on the back of the personal use license, if a license is required.

(3) ((For two consecutive day licenses, the validation date is legibly written on the face of the stamp. If)) The ((validation)) license issuance date is ((illegible or)) legible and not altered, ((or if)) and the ((stamp affixed to the recreational)) license ((form)) has not been mutilated((, the catch record card is invalid)). ((The department will not replace a lost or mutilated stamp.))

AMENDATORY SECTION (Amending Order 91-13, filed 4/2/91, effective 5/3/91)

WAC 220-55-075 (~~Salmon and sturgeon license stamps.~~) **Recreational fisheries enhancement stamp.**

~~((Salmon and sturgeon license stamps shall be issued by the department of fisheries. These stamps are not valid unless affixed to a recreational license form.))~~ (1) The annual recreational fisheries enhancement surcharge required by RCW 75.54.140, is administered by the department as a recreational fisheries enhancement stamp.

(2) The recreational fisheries enhancement stamp is a stamp issued by the department, which is required to be affixed to an annual license for which there is a cost prior to the fisher fishing for salmon or other food fish in Catch Record Card Areas 5 through 13 or Lake Washington.

(3) A recreational fisheries enhancement stamp is not required for two consecutive day licenses, five year disability licenses, or any license issued at no cost.

AMENDATORY SECTION (Amending Order 80-12, filed 2/27/80, effective 4/1/80)

WAC 220-55-100 (~~Blind person.~~) **Personal use food fish license and shellfish and seaweed license dealer.** ~~((For the purpose of a free salmon angling license, a blind~~

~~person shall be defined as a person who has no vision or whose vision, with corrective glasses, is so defective as to prevent the performance of ordinary activities for which eyesight is essential.)~~ A personal use food fish license and shellfish and seaweed license dealer is any person, business, corporation or governmental agency authorized by the director to issue personal use licenses, recreational fisheries enhancement stamps, and catch record cards.

AMENDATORY SECTION (Amending Order 89-05, filed 3/20/89)

~~WAC 220-55-105 ((License issuing procedures.))~~ Personal use license dealer—Bonding, prepayment and remittance requirements. ~~((Recreational license stamps will be distributed and sold by the department to license dealers. The stamps will be sold or issued in sheets.))~~ (1) A personal use license dealer who has been authorized less than twenty-four months must either post a surety bond or prepay for licenses and recreational fisheries enhancement stamps. The total value of licenses and stamps issued to bonded dealers will not exceed the amount of the bond.

(2) Personal use license dealers who have been authorized for twenty-four months or longer and who have had no more than three late remittances or more than one audit exception in a twelve-month period and who provide proof of casualty, theft or loss insurance may be issued licenses without bonding or prepayment.

(3) Personal use license dealers who have been issued licenses without bonding or prepayment and thereafter have more than three late remittances in a twelve-month period or two audit exceptions in a twelve-month period will resume status as a new dealer.

(4) Personal use license dealers who make a remittance with insufficient funds must obtain a surety bond or prepay for all further licenses.

(5) Personal use license dealers shall report license sales on forms provided by the department and shall remit receipts from those sales to the department no later than the tenth day of each month following the close of business for the previous calendar month. Receipts from sales of personal use licenses are the property of the state of Washington. Failure to remit receipts from the sales of personal use licenses within sixty days of the sale of the license may result in criminal prosecution pursuant to Title 9A RCW, the Washington Criminal Code.

AMENDATORY SECTION (Amending Order 89-05, filed 3/20/89)

~~WAC 220-55-110 ((Recreational license stamp bond requirements.))~~ Two consecutive day license and catch record card—License dealer issuance duties. ~~((Persons requesting authorization as a bonded dealer must post a minimum two thousand dollar surety bond. The total face value of license stamps issued to bonded dealers at any one time shall not exceed that dealer's bond. Dealers who prepay for license stamps are not required to be bonded.))~~ (1) A personal use license dealer must, at the time of sale of a two consecutive day license, write the validation date in ink on the license document. The validation date is the first day on which a licensee may fish for, harvest or possess food fish or shellfish.

(2) A personal use license dealer must, at the time of distribution of a catch record card, record in ink the number of the catch record card in the appropriate space on the personal use food fish license, if a personal use food fish license is required for the fisher.

AMENDATORY SECTION (Amending Order 89-05, filed 3/20/89)

~~WAC 220-55-115 ((License stamp sales reporting and fee remittances.))~~ Personal use license dealer's fees. ~~((Bonded dealers shall report stamp sales on forms provided by the department and remit receipts from those sales to the department no later than the tenth day of each month following the close of business for the previous calendar month.))~~ Personal use dealers may retain a license fee of one dollar for each personal use food fish license, personal use shellfish and seaweed license, and recreational fisheries enhancement stamp sold. No dealer's fee may be charged for free licenses issued by dealers to residents seventy years of age or older, or for distributing catch record cards to any fisher.

AMENDATORY SECTION (Amending Order 89-05, filed 3/20/89)

~~WAC 220-55-120 ((Free recreational license issuing procedure.))~~ Personal use licenses and recreational fisheries enhancement stamps—Redemption and inventory return. ~~((1) Upon request, a free recreational license and valid catch record card shall be issued by license dealers to persons who qualify under RCW 75.25.040 and 75.25.110(1).))~~

(2) Upon request a free recreational license and valid catch record card shall be issued by the license supervisor of the Department of Fisheries, Olympia, Washington, to any other qualified applicant as provided for in RCW 75.25.110. A lost or illegible free license will be replaced by the license supervisor upon request and showing of proof.)) (1) Personal use license dealers may redeem prepaid personal use food fish licenses, personal use shellfish and seaweed licenses, and recreational fisheries enhancement stamps for full value by returning unused stock to the department licensing division not later than January 31 of the year following expiration. Dealers who return stock by mail are entitled to a refund if the postmark is no later than January 31st. No redemption will be made for licenses or stamps received or postmarked after January 31st.

(2) Bonded dealers and dealers who are not required to prepay or bond must return all unused personal use licenses and recreational fisheries enhancement stamps by January 31st of the year following expiration. After January 31st any unreturned licenses or stamps will be presumed to have been sold and remittance will be required under WAC 220-55-105.

AMENDATORY SECTION (Amending Order 91-13, filed 4/2/91, effective 5/3/91)

~~WAC 220-55-125 ((Duties of a recreational license dealer.))~~ Catch record cards—Accountability and inventory return. ~~((A license dealer shall, at the time of sale of a two consecutive day personal use license, write the~~

~~validation date in ink on the face of the stamp, and it shall be unlawful to fail to do so.))~~ A personal use license dealer issuing catch record cards for salmon, sturgeon, and halibut is subject to the following rules:

(1) Catch record card books may not be transferred from one dealer to another without written permission from the department.

(2) All catch record card books from which all cards have been issued, and any catch record card returned to a dealer by a fisher, must be returned to the department within ten days after the end of each calendar month.

(3) Any dealer terminating business or closing for the year prior to December 31st must return any unused or partially used catch record card books within thirty days of terminating business or closing for the year.

(4) All partially used catch record card books must be returned to the department by January 31st of the year following the year printed on the catch record cards. All complete unused catch record card books, and any catch record cards that are void, lost, destroyed or otherwise missing from a dealership, must be accounted for in writing to the department by January 31st of the year following the year printed on the catch record cards.

REPEALER

The following sections of the Washington Administrative Code are repealed:

| | |
|----------------|---|
| WAC 220-55-080 | Validation date. |
| WAC 220-55-086 | Two-consecutive-day personal use license. |
| WAC 220-55-090 | Recreational license dealer. |
| WAC 220-55-130 | Valid personal use license. |
| WAC 220-55-140 | Valid recreational Hood Canal shrimp license. |
| WAC 220-55-150 | Dealers fees. |

AMENDATORY SECTION (Amending Order 90-05, filed 1/19/90, effective 2/19/90)

WAC 220-69-220 Definition of terms. (1) **Department of fisheries** as referred to in this chapter means:

Department of Fisheries
Data Processing Section
~~((Room 115 General Administration Building))~~
PO Box 43138
Olympia, Washington 98504-3138
Telephone (206) ~~((753-2540))~~ 902-2310
or (206) ~~((753-6580))~~ 902-2312

(2) **Dealer** as referred to in this chapter means the original purchaser or receiver of food fish, shellfish, or parts thereof.

(3) **Buyer** as referred to in this chapter means the person who ~~((originally))~~ receives food fish, shellfish, or parts thereof on behalf of a dealer whose name appears on the buyer's license.

(4) ~~((Fishesman))~~ **Fisher** as referred to in this chapter means the person who catches or delivers food fish, shellfish, or parts thereof.

(5) **Original receiver or receiver** as referred to in this chapter means the first person in possession of food fish or

shellfish in the state of Washington who is a licensed wholesale dealer or fish handler or who is acting in that capacity, after the food fish or shellfish have been caught or harvested by a commercial ~~((fisherman))~~ fisher.

(6) **Treaty** as referred to in this chapter means any person, group, or activity thereof made unique by virtue of descendancy from Indian tribes signatory to treaties made with the United States government in the mid-1850's where such treaties reserved certain rights in what is now the state of Washington or waters bordering that state.

(7) **Nontreaty** as used in this chapter means all entities not qualified by definition as treaty.

(8) **Treaty Indian** as referred to in this chapter means an individual treaty Indian ~~((fisherman))~~ fisher.

(9) **Working day** as referred to in this chapter means Monday through Friday exclusive of a Washington state or federal holiday.

AMENDATORY SECTION (Amending Order 91-07, filed 2/8/91, effective 3/11/91)

WAC 220-69-260 Distribution of copies of ~~((eannery))~~ Puget Sound and troll fish receiving ticket. State of Washington ~~((eannery))~~ Puget Sound and troll fish receiving tickets shall be made out in ~~((quintuplicate (five)))~~ quadruplicate (four copies) at the time of landing. Upon completion of the fish receiving ticket the copies shall be distributed as follows:

(1) The dealer copy #1 (white) shall be retained by receiver for their use.

(2) The state ~~((copies #1 and #2))~~ copy (green ~~((and pink)))~~ shall be mailed to the department of fisheries. It is required that the state copies be received by the department no later than the sixth working day after the day the ticket was completed by the original receiver.

(3) Dealer copy #2 (yellow) shall be retained by receiver for their use.

(4) ~~((Fishesman))~~ Fisher copy (gold) shall be retained by the deliverer for their use.

AMENDATORY SECTION (Amending Order 86-102, filed 9/12/86)

WAC 220-69-273 Imprinters. Use of a mechanical imprinter approved by the department of fisheries, in conjunction with a license card ~~((duplicate license card))~~ or treaty Indian identification card to identify the deliverer, and a dealer plate or buyer plate to identify the receiver on all state of Washington fish receiving tickets is hereby made mandatory.

Provided, That license card information may be recorded manually on the state of Washington fish receiving tickets in the following exceptions:

(1) Oregon licensed ~~((fishermen))~~ fishers delivering fish caught in the Columbia River.

(2) Purchases made from out-of-state firms.

(3) ~~((Fishesman))~~ Fishers selling on a delivery ~~((permit))~~ license who have not received a delivery ~~((permit))~~ license card from the department at the time of their first sale. All subsequent sales require use of a license card.

~~((4) For nontreaty fishermen, any instance where a commercial gear license is not required and license card has not been issued.))~~

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 220-69-245 Duties of sport salmon and sturgeon catch record card issuers.

AMENDATORY SECTION (Amending Order 83-203, filed 12/2/83)

WAC 220-69-270 License cards. (1) Upon lawful application, a commercial (~~(fishing)~~) fishery license (~~(or permit)~~) in the form of a license card will be issued by the department (~~(of fisheries)~~). The license card will be designed for use with an approved mechanical imprinting device. The license card will contain the (~~(boat owner's)~~) licensee's name; ((boat name or number, length,)) license type and gear ((type)) code; ((boat operator's name, description, and address; license expiration date; gear code; license number; and department of fisheries' boat plate number)) license year; license number. Upon designating a vessel the license card will additionally contain the vessel name for documented vessels; the state registration number for undocumented vessels if state registration is required; the department vessel registration number for vessels for which neither documentation nor state registration is required; the primary operator and date of birth; up to two alternate operators and date of birth for each.

(2) It is unlawful to fish, deliver, possess or sell food fish or shellfish taken in a commercial fishery or by charter boats or salmon guides without having a vessel designated on the commercial license except for those fisheries in which no vessel is required.

(3) It ((shall be)) is unlawful for any person to ((use or)) possess a fishery license card other than the ((fisherman to whom the card is issued, or the receiver to whom the fish are being offered for receipt)) licensee or an operator designated on the license.

~~((3) Upon written request to the department of fisheries by any person holding a valid license card, a duplicate license card will be issued. The duplicate license card will contain the names of the boat owner and operator, boat name or number, gear code, license number, and department of fisheries' boat plate number. The duplicate license card shall be retained by the buyer for preparing the appropriate state of Washington fish receiving ticket in the deliverer's absence.))~~

**WSR 94-01-002
PERMANENT RULES**

DEPARTMENT OF LICENSING

(Real Estate Appraiser Advisory Committee)

[Filed December 1, 1993, 1:24 p.m.]

Date of Adoption: November 29, 1993.

Purpose: To comply with federal appraisal subcommittee recommendations and regulations.

Citation of Existing Rules Affected by this Order:
Amending WAC 308-125-040.

Statutory Authority for Adoption: RCW 18.140.030(1).

Pursuant to notice filed as WSR 93-21-068 on October 19, 1993.

Effective Date of Rule: Thirty-one days after filing.

Kathy Baros Friedt
Director

AMENDATORY SECTION (Amending WSR 93-17-020, filed 8/10/93, effective 9/10/93)

WAC 308-125-040 Examination prerequisite state-certified residential classification. The state-certified residential real estate appraiser classification applies to appraisals of all types of residential property of one to four units without regard to transaction value or complexity and nonresidential property having a transaction value less than two hundred fifty thousand dollars.

(1) As a prerequisite to taking the examination for certification as a state-certified residential real estate appraiser, an applicant shall present evidence satisfactory to the director that he/she has successfully completed not less than one hundred (~~(five))~~ twenty classroom hours of courses in subjects related to real estate appraisal approved by the director. Each applicant must successfully complete a thirty classroom hour course in the basic principles of real estate appraising and a fifteen classroom hour course in the Uniform Standards of Professional Appraisal Practice as part of the one hundred (~~(five))~~ twenty classroom hours of course work.

(2) An original certification as a state-certified residential real estate appraiser shall not be issued to any person who does not possess two years of experience as a full time real estate appraiser in Washington or in another state having comparable certification requirements within five years immediately preceding the filing of the application for examination and certification. An applicant may accumulate the required experience over the preceding five years; however a minimum of two years (twenty-four months) is required.

(3) The content for courses required prerequisite to taking the examination for certification as a state-certified residential real estate appraiser must include coverage of all the topics listed below with particular emphasis on the appraisal of one to four unit residential properties:

- (a) Influences on real estate value.
- (b) Legal considerations in appraisal.
- (c) Types of value.
- (d) Economic principles.
- (e) Real estate markets and analysis.
- (f) Valuation process.
- (g) Property description.
- (h) Highest and best use analysis.
- (i) Appraisal statistical concepts.
- (j) Sales comparison approach.
- (k) Site value.
- (l) Cost approach.
- (m) Income approach.
 - (i) Gross rent multiplier analysis.
 - (ii) Estimation of income and expenses.
 - (iii) Operating expense ratios.
 - (iv) Direct capitalization.
 - (n) Valuation of partial interests.
 - (o) Appraisal standards and ethics.

(p) Narrative report writing.

Preexamination review seminars or examination preparation seminars will not be approved for clock hour credit.

WSR 94-01-004
PERMANENT RULES
SECRETARY OF STATE
 (Corporations Division)
 [Filed December 1, 1993, 3:34 p.m.]

Date of Adoption: December 1, 1993.

Purpose: To establish regulations for the implementation of the amended Charitable Solicitations Act and Charitable Trust Act. Administration of charitable trusts was moved to the above office by action of the 1993 legislature.

Citation of Existing Rules Affected by this Order: Repealing WAC 434-19-010 through 434-19-230, 44-01-010 through 44-01-130 and 44-01-150 through 44-01-180.

Statutory Authority for Adoption: Chapters 34.05, 19.09, 11.110, and 43.07 RCW.

Other Authority: Chapter 471, Laws of 1993.

Pursuant to notice filed as WSR 93-21-093 on October 20.

Changes Other than Editing from Proposed to Adopted Version: Published November 3, 1993. There are editorial changes to make regulations easier to understand, and procedural changes are incorporated which make it easier to file solicitation reports. Following the oral testimony, written comments, and telephone comments the secretary has made some procedural changes that will make it easier for registrants to comply with the regulations. Specific comments are as follows: WAC 434-120-100 Who shall register, removed exemption from registering for congressionally chartered organizations whose sole purpose was to accept contributions because persons confused this with organizations granted a federal charter for mixed purposes. Also, included all statutory exemptions so readers could find all the information in one place; WAC 434-120-105 Form, clarifies that the financial statement is the solicitations report; and that the policy is to separate commercial fund raiser costs from other expenses; WAC 434-120-130 Auditing standards, removes auditing requirement for charitable organizations with revenue of less than \$350,000 annually. Requires signatures on solicitations report attesting to consistency with annual statement by president, treasurer, and entity/person named as responsible for books. Raises the annual revenue requirement for audit reports from \$250,00 [250,000] to \$350,000. These rules should not have a substantial economic impact on an organization because the information required is that kept in the normal course of business and is to be reported as currently required. Organizations receiving money from United Way and other large organizations, generally, have audit reports made now. Directs thirty working day response to written request for an audit report; WAC 434-120-135 Contributor lists, sets three year time frame consistent with statute for retention of records; WAC 434-120-210 Who shall register, moved classifications of entities not required to register from WAC 434-120-025 to this section. If soliciting, still must comply with RCW 19.09.100; WAC 434-120-215 Form, added statutory requirement for name of entity that prepares,

reviews, or audits financial statement and clarified financial statement as solicitation report for audit purposes. Makes it easier for first time registrant to complete solicitations report and eased charity's accountability for commercial fund raiser's activities; WAC 434-120-255 Auditing standards, eases audit requirements for small commercial fund raisers and requires audit reports only for those whose gross total contributions are more than \$350,000 a year, unless they fund raise on a net revenue basis or the charity pays any expenses. The commercial fund raising entity hired by the charity is responsible for the solicitations report. The information needed for the solicitation report is that kept in the ordinary course of business and should be readily available to the business. Requires fund raiser to produce an audit within thirty working days upon written demand; WAC 434-120-260 Surety bonds, because of confusion about primary and secondary fund raiser categories, these were eliminated. All commercial fund raisers must carry their own bonds.

Effective Date of Rule: January 1, 1994.

December 1, 1993

Donald F. Whiting

Assistant Secretary of State

Revision of Charitable Solicitations WACs

**Chapter 434-120 CHARITABLE SOLICITATION
 ORGANIZATIONS AND CHARITABLE TRUSTS**

**SECTION I-GENERAL PROVISIONS
 AND DEFINITIONS**

NEW SECTION

WAC 434-120-010 Authority and purpose. These rules are adopted under authority of Chapter 19.09 RCW, the Charitable Solicitations Act, hereafter referred to as "the solicitations act," Chapter 11.110 RCW, the Charitable Trust Act, hereafter referred to as "the trust act," and Chapter 43.07 RCW to provide for the efficient administration of these acts.

NEW SECTION

WAC 434-120-015 Official address and telephone number. (1) The address for all correspondence is the Corporations Division, Office of the Secretary of State, P.O. Box 40234, Olympia, Washington 98504-0234.

(2) In-person transactions may be made at the Corporations Division Office, 505 Union S.E., Second Floor, Olympia, Washington. There is an expedited in-person fee of twenty dollars for single or multiple transactions within each charitable organization or commercial fund raiser file.

(3) The telephone number is (206) 753-7118 or (206) 753-7120. The toll free number in Washington is 1-800-332-GIVE (1-800-332-4483).

NEW SECTION

WAC 434-120-020 Office hours. Business hours of the Corporations Division are 8:00 a.m. to 5:00 p.m., Monday through Friday, except holidays. Over-the-counter service is available to provide same day service for individual requests brought in before 4:30 p.m. (see WAC 434-110-

060) and telephone service is available from 8:00 a.m. to 5:00 p.m.

NEW SECTION

WAC 434-120-025 Definitions. (1) "Charitable organization" as defined in RCW 19.09.020(2) shall be referred to as "charitable organization" or "organization" for the purposes of these regulations.

(2) "Charitable trust" means any real or personal property right held by an entity or person that is intended to be used for a charitable purpose(s). When the purpose(s) is to distribute exclusively to individuals or organizations expressly named in the governing instrument, it is not a charitable trust for the purposes of these regulations. The trust may be created by will, deed, articles of incorporation, or other governing instrument. It may be express or constructive.

(3) "Compensation," defined in RCW 19.09.020(3), for the purposes of these regulations shall not include reimbursement for expenses incurred and documented or non-cash awards or prizes, valued at one hundred dollars or less, given annually to each volunteer.

(4) "Solicitation," as defined in RCW 19.09.020(15), for the purposes of these regulations, shall not include any of the following:

(a) An application or request for application for a grant, contract, or similar funding from any foundation, corporation, governmental agency or similar entity which has an established application and review procedure for reviewing such requests;

(b) The attempt to sell a service or good which constitutes the basis of the charitable organization's activities under which the federal income tax exemption was granted, or is the primary purpose for the existence of the charitable organization. This includes, but is not limited to, admission to a theatrical or other performance presented by a charitable organization that is a drama, musical, dance, or similar group and fees for services such as a hospital provides or use of the charitable organization's facilities; or

(c) Bingo activities, raffles, and amusement games conducted under chapter 9.46 RCW and applicable rules of the Washington state gambling commission [RCW 19.09.020].

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 434-120-030 Public records. Except as provided by RCW 42.17.310, all public records of the corporations division, which includes the charitable organization registration and charitable trust section, are available for public inspection and copying pursuant to rules of procedure in chapter 434-120 WAC and WAC 434-110-075. Registrations of trusts with several or mixed purposes shall not be made public under RCW 11.110.040 and 11.110.075.

SECTION II-CHARITABLE ORGANIZATION REGISTRATION REQUIREMENTS

NEW SECTION

WAC 434-120-100 Who shall register. (1) Any entity that will conduct a charitable solicitation or solicit funds from the general public for charitable purposes shall register with the corporations division under the solicitations act;

(2) Entities exempt from registration are the following:

(a) Any entity that provides fund raising advice or consultation to a charitable organization within this state but neither directly nor indirectly solicits or receives any contribution for or on behalf of any such charitable organization;

(b) Any entity whose sole purpose is religious or political;

(c) Any entity who raises less than five thousand dollars in any accounting year, all activities including fund raising are done by volunteers, and whose officers or members do not receive assets of or benefits from the organization;

(d) A bona fide officer or other employee of a charitable organization; and

(e) Charitable organizations located outside of the state of Washington that meet the statutory requirements under RCW 19.09.076(2).

(3) Any entity exempt from registration by these regulations soliciting or conducting a solicitation shall comply with the conditions for solicitations as described in RCW 19.09.100.

NEW SECTION

WAC 434-120-105 Form. Charitable organizations registering under this act shall use the combined charitable organization, charitable trust, and public benefit form available in the Office of the Corporations Division or shall provide, by letter, the required information organized and topically sectioned in exactly the following manner:

(1) Section I. The name, address, and telephone number of the charitable organization; and the name under which the organization will solicit contributions.

(2) Section II. The name, address, and telephone number of the corporate officers, directors of the board, or persons accepting responsibility for the organization; and the names of the three officers, directors, or employees who receive the greatest amount of compensation from the organization. If this is a consolidated registration, then list the names of the three officers or employees of the parent organization.

(3) Section III. The purpose of the charitable organization; the names and addresses of beneficiaries or the selected group of persons or activities which the charitable organization supports; and to whom assets would be given in the event of dissolution.

(4) Section IV. Whether or not the organization has a federal income tax exempt status, and, if so, the basis. Attach a copy of the letter or other written proof of the status declaration if granted under 26 U.S.C. 501 (c)(3) by the Internal Revenue Service. Include the name, address, and telephone number of the entity that prepares, compiles, reviews, or audits the financial statement of the charitable organization.

(5) Section V. A financial statement in the form of a solicitation report, which includes the following information:

(a) From a newly formed entity that has not completed its first accounting year, the annual budget expenditures approved by the board of directors or other responsible person(s), which must clearly identify the reported figures as budget estimates not based upon actual funds expended; or, from an entity that has completed one or more accounting years but has not previously registered under this act, its actual expenditures from the preceding fiscal year, and its proposed budget for the coming fiscal year; and

(i) The number and types of solicitations planned; and
 (ii) From the existing entity, total revenue for the preceding year and the amount that was used for the charitable purpose;

In addition, seven months after registration all newly formed entities shall file a six month report containing actual budget figures.

(b) From charitable organizations registering for the second or more years, the following information from the preceding fiscal year:

(i) The number and types of solicitations conducted;
 (ii) The total dollar value of gross revenue received from solicitations conducted by or on behalf of the organization and from all other sources (including revenue from activities regulated by the Gambling Commission) received, which must equal the total revenue of the organization;

(iii) A solicitation report that contains the gross revenue applied to charitable purposes, fund raising costs, and other expenses, which are figured in accordance with WAC 434-120-125, including the amount of any compensation allocated to charitable purposes and paid to a commercial fund raiser or other entity, who is not a bona fide employee, as defined in RCW 19.09.020(1), for fund raising services; and

(iv) The name, physical address, and telephone number of any commercial fund raiser used by the organization.

A parent organization may file a consolidated solicitation report when registering including the solicitation information required for each of its related foundations, supporting organizations, chapters, branches, or affiliates in the state of Washington. Alternatively, it may file a single combined solicitation report including funds raised by all such units of the parent organization and listing the individual names of all units who raised five thousand dollars or more in the preceding year.

(6) Section VI: A signed statement from the entity who prepares, compiles, reviews, or audits the financial statement who is listed under the requirement of WAC 434-120-105(4), attesting that the figures of the solicitation report are consistent with the organization's annual financial statement; and a written list of the copies of any annual or periodic reports on file that were made by the charitable organization and its subsidiaries, or affiliates, if any, which substantiate the figures; and

(7) An irrevocable appointment of the secretary to receive service of process in non-criminal proceedings.

All charitable solicitation organization registrations shall be signed by the president, treasurer, or comparable officer of the organization or, in the absence of officers, person responsible for the organization, whose signature shall be notarized.

NEW SECTION

WAC 434-120-115 Treatment of appropriated funds.

A government subdivision or publicly supported educational facility that is also a charitable organization shall report government appropriated funds only to the extent such funds are directly expended to support fund raising efforts or to defray costs of administering the organization's fund raising programs.

NEW SECTION

WAC 434-120-125 Financial reporting adjustments.

For purposes of preparing the solicitation report required by RCW 19.09.075(7) and WAC 434-120-105 (5)(b)(iv) the following information shall be included:

(1) A charitable organization financial report shall show the surplus, fund balance, general reserve, or similar account from the previous year. The report should note whether any or all of this money was expended in the current year and how.

(2) Funds irrevocably reserved to a capital acquisition or other legally binding reserve account shall be reported as disbursed for the stated purpose in the year of deposit to the reserve account. These funds shall not be reported as expended when withdrawn or liquidated from the reserve account at a later date.

(3) A charitable organization shall consolidate all expenses into the following three categories: direct expenses and administrative or indirect expenses as determined by GAAP; the total of the "reasonable purchase price(s) to the organization of any tangible goods or services resold by the organization as part of its fund raising activities" as described in RCW 19.09.020(5); and amount paid to and to be paid to commercial fund raisers. These shall be subtracted from the gross amount of annual contributions collected. Compute the information in the following manner:

(a) Determine the total annual gross revenue (TGR);

(b) From the TGR subtract the total of all purchases made for resale;

(c) From the balance remaining after completing (b), subtract the amounts paid to commercial fund raisers;

(d) From the balance obtained in part (c) subtract the costs of solicitation described in RCW 19.09.020(5), which are comprised of the direct expenses and indirect or administrative expenses of the organization (excluding amounts paid to commercial fund raisers). The final result is the net revenue.

(e) Subtract from the net revenue the amount expended directly for charitable purposes or distributed to other charitable organizations and the amount reserved for future use showing each as a separate line item.

(f) Compute the percentage of funds raised that were directed to charitable purposes. Use the amount of money directed toward the charitable purposes as a percentage of the TGR in step (a) or, if there were purchases made for resale, as a percentage of the figure obtained in step (b).

(3) Organizations shall keep, for a three year period, the annual financial reports and the supporting documents including books, ledgers, prepared statements, compilations, reviews, or audit reports, or any other records on which they were based, making them available to the attorney general or county prosecutor on request.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 434-120-130 Auditing standards and requirements. A charitable organization's solicitation report shall be signed by the following entities who attest that the figures are consistent with the annual financial statement:

(1) Those with a gross revenue of less than three hundred fifty thousand dollars a year, shall submit an annual solicitation report signed by the president and treasurer, or absent a board of directors and officers, two persons responsible for the organization, and the entity listed in the registration form as required by WAC 434-120-105(4) who prepared the financial statement or made the compilation, review, or audit report that supports the solicitation report; and

(2) Those having a gross revenue of more than three hundred fifty thousand dollars annually, shall submit an annual solicitation report signed by the president, treasurer, and the entity listed in the registration form according to WAC 434-120-105(4) who made the "audit report" of the solicitation report.

Upon the written request of the secretary, attorney general, or county prosecutor, an organization shall submit an audit report for the year requested within thirty working days from the date of request.

NEW SECTION

WAC 434-120-135 Contributor lists. All charitable organizations registered under this act shall keep records of all contributors to the organization for three years. If a commercial fund raiser manages a campaign for a charitable organization, either the commercial fund raiser or the charitable organization shall be the entity responsible for maintaining the contributor records for that campaign. These records shall include the names of the following contributors:

(1) Each contributing entity that collects individual donations from an employee or member group or a business, turning them over to the charitable organization as a single sum, such as the United Way;

(2) Each corporation that contributed; and

(3) Each individual who contributed more than twenty-five dollars.

The records must be retrievable and compilable for a period of three years and shall be turned over within ten working days upon written request of the Attorney General or the county prosecutor, although the organization is not required to keep the names in a standard list format at all times.

NEW SECTION

WAC 434-120-140 How and when. (1) Original registration: An entity required to register as a charitable organization shall complete the form described in WAC 434-120-105 and submit it with the fee in WAC 434-120-145 prior to conducting any solicitation;

(2) Annual renewal: An entity shall renew its charitable organization registration at the same time as it submits its annual corporation renewal or nonprofit annual report, or, if not a corporation, the same month of the year as the entity's

original registration for charitable solicitation purposes. The renewal shall include the same information required for registration as described in WAC 434-120-105. The solicitation report will be based on the most recently completed fiscal year or most recent filing with the Internal Revenue Service, whichever was prepared or filed later. No organization may submit the same fiscal information for two consecutive years. The renewal cycle shall begin on July 1, 1994, for all organizations whose corporation renewal is due July 1, 1994, or later in the year. All charitable organizations whose corporation renewal comes due in the months of January through June shall renew in the new cycle beginning January 1995. The 1994 renewal shall be effective, without additional fees, until the new 1995 renewal date.

(3) Change in status, notification: An organization shall notify the corporations division of a change in principal officer, owner, or Washington representative or any other information filed under RCW 19.09.075 or WAC 434-120-105, within thirty days after the change.

NEW SECTION

WAC 434-120-145 Fees. (1) Original registration: Entities registering as charitable organizations shall pay a fee of twenty dollars for the first year of registration. The fee shall be waived for those who first register under this act at the same time as filing non-profit incorporation papers.

(2) Annual reregistration: Organizations reregistering shall pay a fee of ten dollars. If reregistering at the same time as filing non-profit corporation annual reports, the organization shall pay a combined fee of fifteen dollars. If an organization files renewals under the non-profit corporation act, the charitable solicitations act, and the charitable trusts act, the fee shall be thirty dollars for all three.

(3) Information changes: Organizations filing changes of information described in WAC 434-120-220(3), shall pay a fee of ten dollars for each submittal of change(s).

(4) Photocopy fees: For copy of a charitable organization registration form or letter, including the finance and solicitation reports, the fee is ten dollars.

(5) Expedited service fees: For in-person service at the counter, the fee is twenty dollars for one or more transactions in each charitable organization file requested.

NEW SECTION

WAC 434-120-155 Public benefit nonprofit corporation registration—Annual fee. Any corporation filing under the non-profit corporation act and possessing an exemption under 26 U.S.C. Sec. 501 (c)(3), or is not required to apply for its tax exempt status, may register as a "public benefit nonprofit corporation" with the Corporations Division for a fee of ten dollars.

The corporation must reregister annually, pay a ten dollar fee, and retain its 26 U.S.C. Sec. 501 (c)(3) exemption or other tax exempt status. The annual fee shall be waived for organizations reregistering at the same time as filing nonprofit corporation annual reports, charitable organization, or charitable trust reregistration.

An organization registered under this section may list the designation, "public benefit nonprofit corporation," in all its literature and media materials.

NEW SECTION

WAC 434-120-160 Penalty for late registration. The corporations division will send notice of the time to renew the charitable solicitations registration when it mails notice of the annual report or license renewal due date. A charitable organization that fails to reregister at the time the corporation annual report or license renewal is due, shall pay a late penalty fee of twenty-five dollars when the reregistration is made, if made prior to administrative corporate dissolution. If the corporation has been administratively dissolved, it shall pay an additional fifty dollar penalty for each year, including the current year, it was not registered under this act for which it wishes to reinstate its corporation registration. A charitable organization not registered as a corporation shall be assessed a penalty of twenty-five dollars if registering within sixty-five days of the renewal date. Thereafter, the penalty fee shall be fifty dollars for each year, including the current year, it has failed to register. If the registration has lapsed for a period of more than two years, the entity shall register as a new charitable organization.

The penalty fees for late registration shall be in addition to any other remedies that may be imposed by law, including penalties for soliciting without being registered.

Under special circumstances the charitable organization may ask the Secretary of State to waive all penalty fees for late registration that are imposed by these regulations.

NEW SECTION

WAC 434-120-170 Use of particular names in solicitations. (1) In addition to registration under this act, any entity conducting a solicitation using the name police, sheriff, fire fighter, firemen, or similar name shall file with the corporations division, an original copy of the authorization to use the name in the solicitation. The authorization shall be signed by two officers or other persons responsible for carrying out the purpose of the bona fide department or organization that is giving its permission to use one of the above names. For the purposes of this section, "bona fide organization" shall mean a government department or agency of police, sheriffs, fire fighters, firemen, or similarly named government employer or an entity in which some or all of its members are employed by a government department or agency of police, sheriffs, fire fighters, firemen, or similar name.

(2) In addition to registration under this act, any entity conducting a solicitation using the name of a military veterans' service organization listed in the most current annual Directory of Veterans Service Organizations published by The Department of Veterans Affairs, Office of the Secretary, in Washington, D.C., shall file with the corporations division an original copy of the signed authorization to use the name in the solicitation. The signatory shall be the highest ranking official of the organization in the state who is listed in the "commanders list" maintained by the Washington Department of Veterans Affairs.

(3) In addition to registration under this act, any entity using the name of a military veterans' service organization that is not affiliated with a national military veterans' service organization shall file with the corporations division an original copy of the authorization granting permission to use

the name. The signatory shall be the service organization's highest ranking official in the state of Washington.

NEW SECTION

WAC 434-120-175 Voluntary verification information. Each organization registering under the act may submit additional information, not required by law, for its file if the information is intended to inform the public about its programs and activities and to verify its existence. The corporations division may place such information in the organization's file for a specified period of time. Persons coming into the office may read such information; however, no voluntary verification information shall be mailed out.

SECTION III-COMMERCIAL FUND RAISER REGISTRATION REQUIREMENTS

NEW SECTION

WAC 434-120-210 Who shall register. (1) Every commercial fund raiser, as described in RCW 19.09.020(8), shall register each year.

(2) Entities exempt from registration shall include the following:

(a) Suppliers of goods and services, to charitable organizations for fund raising purposes, if they are not otherwise engaged in the business of charitable fund raising; or

(b) Retail establishments, not otherwise engaged in the business of charitable fund raising, in which the retail business promises to contribute a portion of the regular sales price of a product or service to a named charitable organization, when:

(i) The price of the product or service is no more than the price thirty days before and thirty days after the promotion;

(ii) There is a written agreement executed before the promotion begins that is signed by an officer of the charitable organization and the person in charge of the retail establishment. This agreement must include the retail establishment's contribution to the organization as a result of this promotion and the charitable organization's permission to use its name. It must be filed with the corporations division by the party specified in the contract and each party must have a copy on file;

(iii) The retail establishment has a financial statement of the fund raising campaign on file, which, upon the attorney general's written request, it can produce within ten working days; and

(iv) The retail establishment complies with the requirements of RCW 19.09.100, which control the conditions of solicitations.

NEW SECTION

WAC 434-120-215 Form. Commercial fund raisers registering under the act shall use the commercial fund raiser registration form available in the Office of the Corporations Division or may provide the required information topically sectioned in the exact following manner:

(1) Section I. The name, physical and mailing address, and telephone number of the commercial fund raising entity;

the name, address, and telephone number of the individual responsible for the activities of the entity in Washington; and a list of the states and Canadian provinces in which the entity has solicited funds;

(2) Section II. The name, address, and telephone number of the owner(s) and principal officer(s) of the commercial fund raising entity; and the names of the three officers or employees receiving the greatest amount of compensation from the organization;

(3) Section III. The name and address of the entity that prepares, compiles, reviews, or audits the financial statement in the form of a solicitation report;

(4) Section IV. (a) For an entity that has never before registered under the solicitations act, a financial statement in the form of a solicitation report based on the aggregate financial fund raising conducted in other states or, if an accounting year has not been completed in any state, a realistic, good-faith estimate of anticipated revenue, expenditures, and distributions to charitable organizations based on contracts in existence; and for a reregistrant a solicitation report based on the most recently completed fiscal year. The report shall contain the following information:

(i) The number and types of fund raising services to be conducted;

(ii) The name of each charitable organization to whom this entity will provide fund raising services;

(iii) The name, address, and telephone number of any other commercial fund raiser to be retained in the conduct of providing fund raising services;

The commercial fund raiser who has not registered under this act before and filing a solicitation report based on estimates, shall file, by the end of the seventh operating month, a six month report containing actual financial information.

(b) For reregistrants, a financial statement in the form of a solicitation report based on the previous accounting year. The report shall contain the following information:

(i) The number and types of fund raising services conducted;

(ii) The name of each charitable organization to whom this entity has provided fund raising services;

(iii) The total value of contributions received on behalf of each charitable organizations by or as response to the commercial fund raiser, its affiliate or another entity retained by the commercial fund raiser;

organization after the fund raising costs paid by each charitable organization has been deducted in accordance with the written agreement made prior to the solicitation;

(v) The name, address, and telephone number of any other commercial fund raiser retained in the conduct of providing fund raising services;

(5) Section V. (a) For funds that were raised and paid on a net revenue basis to each contracting organization or for each campaign in which the charitable organization paid any portion of the expenses, a financial statement in the form of a solicitation report consistent with the audited annual financial statement signed by the entity who is listed as required by sub-section (3) of this regulation; or

(b) For funds that were raised and paid on a percentage of gross revenue basis, a financial statement in the form of a solicitation report, which shows the total revenue from each campaign conducted for each individual organization

and the amount received by each charitable organization. This report must be verified and signed by the entity, who is required to be listed in sub-section (3) of this section, and the president or treasurer of the charitable organization for whom the funds were raised. The fund raiser shall submit individual solicitation reports for each campaign.

(6) Section VI. An irrevocable appointment of the secretary to receive service of process in non-criminal proceedings.

All commercial fund raiser registrations shall be signed by an officer or owner of the commercial fund raiser.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 434-120-220 Change in status, notification. A commercial fund raiser shall do the following:

(1) Notify the corporations division of a change in principal officer, owner, or Washington representative within thirty days after the change.

(2) Notify the corporations division of a change in business structure within thirty days, register the restructured or newly named entity as a new commercial fund raiser and include evidence of separate bonding.

(3) Notify the corporations division of a change in business name within thirty days, register the new name, and include evidence of bonding in the new name. If the fund raiser will use both the existing name and the new name, include evidence of separate bonding for each name and include a fee of ten dollars.

NEW SECTION

WAC 434-120-225 Annual reregistration. Each commercial fund raiser shall reregister annually at the same time as it files either the annual license renewal for profit corporations or annual report for nonprofit corporations, whichever is appropriate. If the commercial fund raiser is not registered as a corporation, it shall reregister annually by the last working day of the month (the anniversary date) of the original registration.

NEW SECTION

WAC 434-120-240 Contract between a commercial organization and a charitable organization. A commercial fund raiser and charitable organization entering into a contract shall register the contract by completing the corporations division contract registration form and attaching a copy of the written contract. It shall be filed before the commencement of the campaign. There is a ten dollar fee for filing the copy of the contract in the corporations division. Both the contract and registration form shall be signed by the commercial fund raiser owner or principal and the charitable organization president, treasurer, or comparable officer. In addition to the statutory requirements of RCW 19.09.097, the terms of the contract shall include who will maintain the donor list. The commercial fund raiser shall be responsible for filing the contract.

NEW SECTION

WAC 434-120-250 Fees. All commercial fund raisers shall pay an original registration fee at the time of filing and a yearly reregistration fee.

(1) The fee for original registration in this state is two hundred fifty dollars.

(2) The annual renewal fee is one hundred seventy-five dollars.

(3) The fee for filing changes in any information previously filed under RCW 19.09.075, RCW 19.09.079, and WAC 434-120-215 or for filing a contract is ten dollars.

(4) The penalty is fifty dollars for failing to reregister within sixty days of the due date. Beginning on the sixty-sixth day or following administrative dissolution of the corporation, whichever is later, the commercial fund raiser shall pay an additional penalty of one hundred dollars for each unregistered year for up to two years or shall register as a new entity. These penalties are cumulative.

Any commercial fund raiser failing to reregister and conducting business may be subject to other penalties and remedies, which may be cumulative and not exclusive and be imposed by law.

(5) The fee for expedited in-person service is twenty dollars for any and all transactions within one commercial fund raiser file.

(6) The photocopy fee is ten dollars for copies of the annual registration form or letter.

NEW SECTION

WAC 434-120-255 Auditing standards. Each commercial fund raiser shall make one or more annual solicitation reports for each campaign conducted or in which it participated, whether engaged by another commercial fund raiser or by a charitable organization to solicit or conduct a solicitation. Each solicitation report shall be signed by the entity listed under WAC 434-120-215(3), who attests that the figures are consistent with the annual financial statement: less than three hundred fifty thousand dollars from all contributions made on behalf of charitable organizations in Washington shall have on file for three years the complete compilation, review, or audit report of the financial statement that was filed in the form of a solicitations report and signed by the entity named as required by WAC 434-120-215(3).

(2) Those whose solicitations and offers to solicit result in more than three hundred fifty thousand dollars from all contributions made on behalf of charitable organizations in the state of Washington shall have on file an audit report of the financial statement that was filed in the form of a solicitation report and signed by the entity named as required by WAC 434-120-215(3).

(3)(a) A commercial fund raiser who engages another commercial fund raiser to solicit funds or conduct a solicitation on behalf of a charitable organization is responsible for and shall include the total contributions and the total expenses related to that campaign in its solicitations report of that campaign. (b) If a reporting commercial fund raiser's contributions and expenses for a campaign are included in another commercial fund raiser's solicitations report, the reporting fund raiser shall list in its report the name of that fund raiser, the name of the charitable organization, the dates

of the campaign, and the total contributions and expenses for which it was responsible.

The annual financial statement in the form of a solicitation report, as verified in accordance with the auditing standards, shall be filed with the application required in WAC 434-124-215.

(4) Upon written demand by the secretary, the attorney general, or the county prosecutor, a commercial fund raiser shall submit an audit report for the year requested within thirty working days.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 434-120-260 Surety bonds. (1) A registering commercial fund raiser, as principal, shall submit proof of execution of a surety bond with one or more sureties whose liability in the aggregate will equal at least fifteen thousand dollars;

(2) If a commercial fund raiser does business under more than one name, each name used by that entity must be registered and bonded separately.

NEW SECTION

WAC 434-120-265 Exemption from surety bond. A commercial fund raiser who can be classified as "product seller," as defined in RCW 7.72.010, may be exempt from the surety bond requirement in WAC 424-120-260 when:

(i) All proceeds for the life of the entity, including shareholder dividends, are dedicated to a single registered charitable trust or single registered charitable organization;

(ii) A written contract with the charitable trust or organization stating the agreement of the receiver to accept and the product seller to donate all proceeds is executed;

(iii) The contract is filed by the product seller with the corporations division;

(iv) "All proceeds" is the remainder left after subtracting indirect and direct expenses of bringing the product to the buyer; and

(v) An annual financial statement in the form of a solicitation report, signed by the entity making the audit report and the president, is filed with the Corporations Division [see WAC 434-120-215(4)].

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 434-120-270 Impairment of surety bond. In the event that a final judgement shall impair the liability of a surety bond and the full amount required is not in effect, the secretary shall suspend the registration of such commercial fund raiser. The commercial fund raiser may request reinstatement when it has restored the full amount of the required bond liability and satisfied all judgement claims.

NEW SECTION**WAC 434-120-280 Signing off on the surety bond.**

A commercial fund raiser bonded in accordance with Chapter 19.09 RCW and these regulations, shall retain the protection of the bond until all claims against it can be filed in accordance with the statute of limitations as listed in chapter 4.16 RCW. The secretary of state has not been granted authority to sign off on a surety bond signifying that all outstanding claims have been filed prior to the expiration of the statute of limitations.

IV. CHARITABLE TRUST REGISTRATION REQUIREMENTS

NEW SECTION

WAC 434-120-300 Who shall register. (1) Any trustee as defined in RCW 11.110.020 holding property in trust for a public charitable purpose and any corporation formed for the administration of a charitable trust or holding assets subject to limitations permitting their use only for charitable, religious, eleemosynary, benevolent, educational, or similar purposes shall register with the Office of the Secretary of State, Corporations Division.

(2) Exempt from registration under the trust act are the following:

(a) Any trustee making distributions only to individuals or organizations expressly named in the governing instrument or mere titleholders, custodians, or depositaries of property held for charitable purposes who have no powers or duties to administer such property;

(b) Governmental bodies such as the United States, any state, territory, or possession of the United States, the District of Columbia, Puerto Rico, or any of their agencies or governmental subdivisions;

(c) Religious bodies incorporated as tax exempt religious organizations, and subsidiary organizations under their auspices:

(i) Charitable agencies or organizations affiliated with and forming an integral part of the religious body, or operated, supervised, or controlled directly by the religious body; or

(ii) Any officer of a religious body holding property for religious purposes;

To be exempt under this act, a newly formed religious body, or subsidiary organizations, as described in subsection (2)(c) must be able to show that it is seeking tax exempt status from the federal Internal Revenue Service. If a written declaration granting the tax exempt status is not received within two years of formation, the organization must file the trust immediately.

(3) Nonprofit educational institutions having a course of studies equivalent to that of a public school or college operated by a Washington state school district or by Washington state.

NEW SECTION

WAC 434-120-305 When to register. Any trustee required to file under this act must file a copy of the instrument establishing title, powers, and duties and an inventory of the assets of the trust.

(1) A trustee of a charitable or mixed purpose trust must file within two months of receiving control of the body of the trust.

(2) A trustee or the life tenant of a vested charitable remainder preceded by a term or life estate must file within two months of the termination of the term or life estate or when trust income or principal is authorized or required to be used for a charitable purpose, whichever comes first.

(4) A trustee of an instrument containing only contingent gifts or remainders to charitable purposes, shall file within two months of the authorization or requirement to use the trust principal or income for a charitable purpose.

Trustees exempt from reporting under RCW 11.110.073 shall file, in addition to the requirements listed, a copy of the declaration of the federal income tax-exempt status, if one is required under federal tax law, or other basis for the claim for exemption and annually, a copy of each publicly available United States tax or information return or report of the trust that is filed with the Internal Revenue Service. As described in statute, these shall include banks or trust companies that are acting as trustees and are subject to examination by a state or federal government body; the governing bodies of nonprofit community foundations or other nonprofit foundations incorporated for charitable purposes, which may accept tax exempt contributions; or governing bodies of hospitals that are nonprofit and charitable, unless formed pursuant to or in connection with existing charitable trusts.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 434-120-310 How to register—Form. Charitable trusts using the assets for charitable purposes and registering under the trust act shall use the combined charitable organization, charitable trust, and public benefit form available in the corporations division or may provide the required information, under oath, topically sectioned exactly in the following manner:

(1) Section I. The name, address, and telephone number of the charitable trust, foundation, corporation, or trustee and the type of instrument creating or governing the organization, corporation, or trust, the date of the governing instrument, and the location where it is filed;

(2) Section II. The names and addresses of the trustees or corporate officers and directors;

(3) Section III. The purpose of the charitable trust; the names and addresses of beneficiaries or the selected group of persons (class or classes) or activities which the charitable trust designates;

(4) Section IV. Whether or not the trust has a federal Internal Revenue Service tax exempt status or Washington state real or personal property exemptions, and the basis for each exemption. Attach a copy of the application for federal tax exempt status, or the declaration of this status if granted by the Internal Revenue Service under 26 U.S.C. 501 (c)(3), and a copy of the application for exemption from the state of Washington;

(5) Section V. An inventory with a description and value of the charitable corporation or trust assets, including

a statement of the current market value of such assets, and statement of liabilities of the trust. An audited statement made according to GAAP may be submitted to comply with this section only. Include the name and address of the entity that prepares, compiles, reviews, or audits the financial statement of the charitable trust;

(6) Section VI: The titles of the trust instruments or articles of incorporation, copies of which must be attached to the registration report; and

(7) An irrevocable appointment of the secretary to receive service of process in noncriminal proceedings.

All charitable solicitation trust registrations shall be signed by the responsible trustee or president, treasurer, or comparable officer of the organization.

A copy of the governing instrument creating the trust shall not be deemed sufficient to meet the requirements of this section.

NEW SECTION

WAC 434-120-320 Content of annual reports. The reports shall contain the information as required by the United States Internal Revenue Service 1993 Form 990, 990PF, or 990EZ. The report shall also include the name of the trust and trustee(s) or officers. It shall specifically contain and highlight a statement of the current market value of assets of the charitable trust or organization. Information may be submitted in any of the following forms:

(1) The Form 990, Return of Organization Exempt from Income Tax, the form 990EZ, Short Form, Return of Organization Exempt from Income Tax, or the form 990PF, Return of Private Foundation, filed with the federal Internal Revenue Service; or

(2) A copy of the annual account filed by the trustee in any court having jurisdiction of the trust; or

(3) A copy of an audit certified as being true and correct and in accordance with generally accepted accounting principles by any certified public accountant and containing substantially the information required as an annual report; or

(4) An organization not required to file a federal tax return because its gross receipts are not more than twenty-five thousand dollars annually, and not required to have an audited annual statement shall submit a statement signed by the president, treasurer, and one other officer showing the information required by this section.

This annual report shall be filed, under oath and executed by an affidavit, by one or more trustees responsible for the trust or an officer of the corporation, association, or organization.

NEW SECTION

WAC 434-120-330 Annual fees. (1) Charitable trusts registering for the first time shall pay a fee of twenty-five dollars. When renewal is combined with filing an annual nonprofit corporation report the fee shall be twenty-five dollars. If an organization simultaneously files renewals under the nonprofit corporations act, the charitable solicitations act, and the charitable trust act, the annual renewal fee shall be thirty dollars for all three, or if renewing under the charitable trusts act, the charitable solicitations act, the public benefits provision, and filing a nonprofit corporation annual report, the fee shall be thirty dollars for all four.

(2) For all expedited in-person service, the fee is twenty dollars for one or more transactions within one charitable trust file.

(3) For a photocopy of an Internal Revenue Service form 990EZ the fee is five dollars and for a copy of Form 990 or 990PF the fee is ten dollars with a surcharge for forms exceeding 100 pages of copy, which is thirteen dollars for each fifty page increment.

NEW SECTION

WAC 434-120-335 When to file annual reports. Annual reports shall be filed at the same time as renewal or annual reports of corporation status or as charitable solicitation annual reports. If the trust is not registered under any of the corporation acts or the charitable solicitations act, the annual report shall be filed by the last day of the same month of each year (the anniversary date) as the original charitable trust filing with the secretary of state.

NEW SECTION

WAC 434-120-340 Annual reports suspended under certain conditions. The secretary may suspend the filing of annual reports of a particular trust for a reasonable, specifically designated time upon written application of the trustee to the secretary. The secretary, upon agreement to suspend, will file in the register of charitable trusts a statement that the interests of the beneficiaries will not be prejudiced and periodic reports are not required by the secretary. Trusts that may be included in this category are those that designate a specific beneficiary at formation but permit the officers to exercise some discretion in choosing beneficiaries at the time of dissolution. The trust or organization shall continue to pay the annual renewal fee, even if reports are not due.

NEW SECTION

WAC 434-120-350 Notifying the Attorney General of litigation. In accordance with WAC 44-01-140, the trustee has a duty to notify the attorney general in writing of all judicial proceedings involving or affecting the charitable trust or its administration.

REPEALER

These regulations repeal the following existing Washington Administrative Code regulations

WAC 434-19-010 through 434-19-230 Implementing the Charitable Solicitations Act

and

WAC 44-01-010 Promulgation.

WAC 44-01-020 General duties of the attorney general and of charitable trustees.

WAC 44-01-030 Creation of charitable trust division—Register of trustees.

WAC 44-01-040 To whom rules apply.

WAC 44-01-050 Definitions.

WAC 44-01-060 Exemptions and exclusions.

WAC 44-01-070 Trustees exempt from RCW 19.10.070—Reports required.

- WAC 44-01-080 Registration—Time for registration.
- WAC 44-01-090 Annual reports.
- WAC 44-01-100 Annual reports—Substance—Form.
- WAC 44-01-110 Annual or periodic reports—Time for filing.
- WAC 44-01-120 Registration and reports—Executing and filing.
- WAC 44-01-130 Notice of application for tax exemption.
- WAC 44-01-150 Duty to furnish information—In general.
- WAC 44-01-160 Register—Inspection.
- WAC 44-01-170 When trust becomes subject to act—Vested remainders.
- WAC 44-01-180 Regulations—Amendments.

Reviser's note: The typographical error in the above repealer occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

**WSR 94-01-005
PERMANENT RULES
DEPARTMENT OF
LABOR AND INDUSTRIES**

[Filed December 1, 1993, 4:55 p.m.]

Date of Adoption: December 1, 1993.

Purpose: Proposed additions to chapter 296-46 WAC define industrial control panels and inspection methods of those panels. Proposed additions to chapter 296-401 WAC create continuing education requirements for electricians and change the renewal period for electricians from two to three years. Chapter 296-47 WAC would be repealed.

Citation of Existing Rules Affected by this Order: Repealing chapter 296-47 WAC; and amending WAC 296-401-165.

Statutory Authority for Adoption: WAC 296-46-670 is RCW 19.28.010, 19.28.060 and 19.28.250; WAC 296-401-163 is RCW 19.28.065 and 19.28.550; WAC 296-401-165 is RCW 19.28.550; and chapter 296-47 WAC is RCW 19.28.010.

Pursuant to notice filed as WSR 93-19-140 on September 22, 1993.

Changes Other than Editing from Proposed to Adopted Version: WAC 296-401-163(1), this change deleted the passage requiring that subcommittee members come from specific sectors of the electrical industry; WAC 296-401-163 (2)(b)(iv), change sentence to clarify reference to "copy" of continuing education form and define the form as being developed by the department; WAC 296-401-163 (2)(b)(iv)(B), add requirements for class identification to include class identification number. Would delete "classroom hours" and "time"; WAC 296-401-163 (2)(c), give alternative of "notarized signature of sponsor" to instructor's name and signature; WAC 296-401-163 [(e)](i), housekeeping change from "nation" to "national"; and WAC 296-401-163(5), delete "supporting" and "by the applicant" from approval testimony. Add "of acceptance or" to sentence to clarify notification to applicant. Housekeeping to remove unnecessary word from last sentence.

Principal Reasons for Adopting the Changes: The variances from the proposed to the final rules, described below, result from testimony received at public hearings held and comments received during the public comment period.

Effective Date of Rule: Thirty-one days after filing.
November 30, 1993
Mark O. Brown
Director

NEW SECTION

WAC 296-46-670 Definitions. (1) Definitions.

(a) RCW 19.28.005(9) "Industrial control panel" means a factory-wired or user-wired assembly of industrial control equipment such as motor controllers, switches, relays, power supplies, computers, cathode ray tubes, transducers, and auxiliary devices. The panel may include disconnect means and motor branch circuit protective devices.

These assemblies are used in industrial, manufacturing, and food processing plants.

(b) "Industrial plants" do not include:

- (i) Municipal or other government facilities.
- (ii) Educational facilities or portions thereof.
- (iii) Institutional facilities or portions thereof.
- (iv) Other installations not used for direct production purposes.

(c) "Manufacturing plants" do not include:

- (i) Home workshops.
- (ii) Municipal or other governmental facilities.
- (iii) Education facilities or portions thereof.
- (iv) Institutional facilities or portions thereof.
- (v) Other installations not used for direct production purposes.

(d) "Food processing plants" do not include:

- (i) Restaurants.
- (ii) Farming, ranching, or dairy farm operations.
- (e) "Utilization equipment" is the machine or machines and its integral components which are controlled by the "industrial control panel(s)" defined in this section.

(2) "Industrial control panels" will be determined to meet the minimum electrical safety standards for installations by:

(a) Listing, labeling, or other indication of acceptability (including a report of field evaluation) by a testing laboratory accredited for such category of equipment by the department; or

(b) Report of field evaluation by a firm approved by the department to perform the evaluation; or

(c) Inspection by department electrical inspectors for compliance with codes and rules adopted under this chapter; or

(d) Special department inspection requested by "industrial control panel" owner or agent.

(3) "Utilization equipment" will be determined to comply with codes and rules for installation by:

(a) Listing, labeling, or other indication of acceptability (including a report of field evaluation) by a testing laboratory accredited for such category of equipment by the department; or

(b) Inspections by department electrical inspectors.

(4) Fees for special inspections by the department required under subsection (2)(d) of this section, including the

time to prepare reports, will be calculated under WAC 296-46-910 (5)(n).

(5) Fees for the inspections by the department under subsections (2)(a), (b), (c) and (3)(a), (b) of this section will be included in the electrical work permit fee calculated for the installation and will not be a separate inspection fee as required under subsection (4) of this section.

(6) Requests for the special inspections under subsection (2)(d) of this section will be on department furnished forms that identify the request as an "industrial control panel" inspection.

(7) Procedures for the special inspection:

(a) The department may require that electrical power to the industrial control panel be deenergized and locked out or disconnected while performing the inspection.

(b) The department may authorize use of the industrial control panel prior to its inspection.

(c) All components of the industrial control panel shall be marked in compliance with NEC Section 110-21. The special inspection requestor shall supply a statement from the manufacturer stating the industrial control panel and its components conform to the requirements of the National Electrical Code, currently adopted Edition; chapter 296-46 WAC; and other standards currently adopted by the department and that they are safe for the intended use. This statement will be furnished to the department prior to a special inspection being performed and will become a part of the permanent special inspection file kept by the department.

(d) Deficiencies:

(i) Will be referenced by the department citing the appropriate code or rule by publication and section (it is expected that the inspector, when asked, will explain his or her interpretation of the code or rule, identifying the deficiency).

(ii) Will be required to be corrected prior to approval by the department.

(iii) Will be required to be corrected, and the department will be notified of such corrections within fifteen days of the date the deficiency was formally identified by the department; or when a longer time is requested by the customer, the department will determine an appropriate time frame consistent with the reason for the request.

The department may authorize the industrial control panel to be, or remain, energized and in service while the deficiencies are being corrected.

(e) Inspection, approval, and correction notices will be in triplicate. A copy will be given to the owner or operator of the facility and to the permittee.

NEW SECTION

WAC 296-401-163 Continuing education classes. (1) Each continuing education class, course, or seminar for renewal of an electrician's certificate of competency must be approved by a subcommittee of the electrical board. The subcommittee will consist of three board members with the chief electrical inspector as an ex-officio member. The action of the subcommittee will be reported and ratified at the next regularly scheduled board meeting. Class, course, or seminar hours completed prior to approval of the class, course, or seminar by the subcommittee will not be accepted.

(2) Each continuing education class, course, or seminar application submitted for subcommittee approval must:

(a) Be submitted on forms furnished by the department.

(b) The forms furnished by the department will require the following:

(i) Name of class, course, or seminar and a general description and course outline of the program, and list of all text and related materials, including hours to be earned and hours of classroom instruction.

(ii) Name and address of program sponsor including a contact person.

(iii) Names of instructors and qualifications.

(iv) Copy of completion certificate or copy of the continuing education form developed by the department which lists:

(A) Attendee's name, address, and Social Security number.

(B) Class number, location, and date of class.

(C) Instructor's name and signature or notarized signature of sponsor.

(c) Consist of not less than four classroom hours of instruction; be open to monitoring by a representative of the department and/or the electrical board at no charge.

(d) Award a certificate or continuing education form, to those completing the class, course, or seminar for submittal to the department accompanying the electrician's renewal application.

(e) In order to be considered for approval, course offerings must be based upon:

(i) Currently adopted edition of the National Electrical Code; and/or

(ii) Currently adopted WAC rules, chapters 296-46 and 296-401 WAC; or

(iii) Materials and methods as they pertain to electrical construction, building management systems, and electrical maintenance.

(3) Application for approval of continuing education classes, courses, or seminars must be received by the department not less than forty-five days prior to the proposed first offering of the class, course, or seminar.

(4) Approval of classes, courses, or seminars will be for a period not to exceed three years and when code related must be resubmitted for approval upon adoption of a new National Electrical Code edition.

(5) All class, course, or seminar approval considered will be reviewed without testimony and will be considered on submitted information only. The applicant will be notified within five days of the review of acceptance or with specific written explanation as to why, the applicant's submittal has been rejected.

(6) Applicants wishing to appeal a decision by the subcommittee must do so not less than forty-five days prior to a regularly scheduled electrical board meeting and must furnish any additional information, for submittal to the electrical board not less than thirty days prior to the electrical board meeting scheduled to hear the appeal.

(7) Acceptable evidence of completion of a continuing education class, course, or seminar shall be a copy of the completion certificate required in subsection (2)(d) of this section. The department will not keep the submitted copies of the completion certificate on file after renewal of an applicant's certificate. The department will not accept, nor

be responsible for, the original of any completion certificate issued under this section.

AMENDATORY SECTION (Amending Order 86-23, filed 8/29/86)

WAC 296-401-165 Issuing and renewing an electrician certificate of competency. (1) The department shall issue an electrician certificate of competency to journeyman or specialty electricians who meet the qualifications in RCW 19.28.530 and who have successfully passed a certification examination in accordance with RCW 19.28.540.

(2) The electrician certificate of competency shall expire on the ~~((holder's birthdate at least one year and not more than three years from the date of original issue))~~ dates identified in subsection (4) of this section. All subsequent certificates shall be issued for a ~~((two))~~ three-year period. ~~((If the person was born in an even numbered year, the certificate shall expire on the holder's even numbered birthdate. If the person was born in an odd numbered year, the certificate shall expire on the holder's odd numbered birthdate.))~~ The department shall prorate the original electrician certification fee according to the number of months or major part of a month in a certificate period.

(3) An individual who successfully passes an examination for a certificate of competency, shall apply for a certificate of competency within thirty days of the date the person is notified about the results of the examination. A person who does not apply for a certificate of competency within thirty days of the date the person is notified about the results of the examination, shall be required to apply for, take and pass the examination again.

(4)(a) The certificate of electricians whose last name begins with the letters A through K will expire on April 30.

(b) The certificate of electricians whose last name begins with the letters L through Z will expire on October 31.

(c) The expiration of the certificate identified in (a) and (b) of this subsection shall be not less than six months nor more than three years from the original date of issuance.

(5)(a) Beginning April 30, 1997, to renew an electrician certificate of competency the holder must, prior to the expiration date of the certificate, remit the appropriate fee identified in WAC 296-401-175 and provide to the department evidence of the completion of approved continuing education course(s) of at least eight classroom hours duration per year of the prior certification period.

(b) An electrician certificate will be renewed within ninety days after the expiration date without reexamination, if the applicant furnishes to the department evidence of completion of approved continuing education course(s) of at least eight classroom hours duration per year of the prior certification, by payment of double the fee identified in WAC 296-401-175. All applications for renewal received more than ninety days after the expiration date of the certificate will require passage of the examination provided by RCW 19.28.540 for recertification.

(c) An electrician certificate will be renewed but will be placed in an inactive status if the renewal process concerning the remittance of application and proper fees complies with (a) or (b) of this subsection but the applicant has not completed the required hours of continuing education

course(s). Persons holding a certificate placed in an inactive status will not be permitted to engage in the electrical construction trade. Certificates placed in an inactive status will be returned to active status upon presentation to the department of evidence that all classroom hours of continuing education that were required for renewal have been completed.

(d) Each application for renewal of a prior certification that covered a period of two years or more must include evidence of attendance at an approved continuing education class, of at least eight classroom hours duration, on the latest National Electrical Code changes.

REPEALER

The following chapter of the Washington Administrative Code is repealed:

Chapter 296-47 WAC Electrical wiring and apparatus.

WSR 94-01-013
PERMANENT RULES
STATE BOARD OF EDUCATION
[Filed December 3, 1993, 11:18 a.m.]

Date of Adoption: November 19, 1993.

Purpose: To correct an incorrect reference.

Citation of Existing Rules Affected by this Order:
Amending WAC 180-29-125.

Statutory Authority for Adoption: RCW 28A.525.020.
Other Authority: Section 24 (8)(e), chapter 233, Laws of 1992.

Pursuant to notice filed as WSR 93-20-091 on October 5, 1993.

Effective Date of Rule: Thirty-one days after filing.
December 1, 1993

Dr. Monica Schmidt
Executive Director/Secretary

AMENDATORY SECTION (Amending Order 12-83, filed 10/17/83)

WAC 180-29-125 Award of contract(s). Upon receipt of authorization to award contract(s) from the superintendent of public instruction, the board of directors of the school district may proceed with award of contract(s) for construction of the school facility project. Immediately following the awarding of contract(s), the board of directors of the school district shall forward to the superintendent of public instruction one copy of each properly executed contract, one copy of the contractor's cost breakdown, and one copy of the contract(s) payment schedule. Such cost breakdown and payment schedule shall be displayed on a form issued and approved by the superintendent of public instruction in accordance with WAC ~~((180-29-080))~~ 180-29-085 (1)(b).

WSR 94-01-014
PERMANENT RULES
STATE BOARD OF EDUCATION

[Filed December 3, 1993, 11:21 a.m.]

Date of Adoption: November 19, 1993.

Purpose: To establish in WAC a provision for the Department of Ecology to delegate their portion of the school site approval process to the local agencies having jurisdiction for environmental approvals, when applicable.

Citation of Existing Rules Affected by this Order: Amending WAC 180-26-020 and 180-29-090.

Statutory Authority for Adoption: RCW 28A.525.020.

Other Authority: Section 24 (8)(e) chapter 233, Laws of 1992.

Pursuant to notice filed as WSR 93-20-089 on October 5, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 1, 1993

Dr. Monica Schmidt

Executive Director/Secretary

AMENDATORY SECTION (Amending WSR 93-07-104, filed 3/23/93, effective 4/23/93)

WAC 180-26-020 Site conditions—Acceptance criteria. The superintendent of public instruction shall conduct an on-site review and evaluation of a proposed site in the case of new construction and an existing site in the case of modernization. The superintendent of public instruction shall accept a site that meets the following conditions:

(1) The school district provides certification by legal counsel retained by the district that the property upon which the school facility is or will be located is free of all encumbrances that would detrimentally interfere with the construction, operation, and useful life of the school facility;

(2) The minimum acreage of the site shall be five usable acres and one additional usable acre for each one hundred students or portion thereof of projected maximum enrollment plus an additional five usable acres if the school contains any grade above grade six. In computing the minimum acreage of the site, the district may include public property in close proximity to the site if, as a matter of public policy the property is available for school purposes and the district is committed to using such facilities: *Provided*, That for sites having seventy percent or more but less than one-hundred percent of the usable acreage as required above, the superintendent of public instruction may grant a site size waiver when, as part of the on-site review and evaluation process, the district provides a mitigation plan and demonstrates that the requirements of (a) through (d) of this subsection have been met: *Provided further*, That a site consisting of less than the minimum usable acreage calculated as per the provisions of this subsection shall be approved by the state board of education if the district demonstrates the following:

(a) The health and safety of the students are not in jeopardy;

(b) The internal spaces within the proposed facility are adequate for the proposed educational program;

(c) The neighborhood in which the school facility is or will be situated is not detrimentally impacted by lack of parking for students, employees, and the public; and

(d) The physical education and recreational programs on the school site are compatible with less than the minimum prescribed acreage.

(3) That the school district has contacted the appropriate local building authorities and requested a predesign conference;

(4) The school district has retained the services of a geotechnical engineer for the purpose of conducting a limited subsurface investigation to gather basic information regarding potential foundation performance and a report has been reviewed by the school district board of directors;

(5) The site has been approved by the following agencies:

(a) The health agency having jurisdiction;

(b) The local planning commission or authority having jurisdiction; and

(c) The state department of ecology or the local agency having jurisdiction for environmental approvals.

AMENDATORY SECTION (Amending Order 11-84, filed 10/4/84)

WAC 180-29-090 Construction documents—Other governmental agency approval. (1) The construction documents shall be submitted for the approval of the following other governmental agencies:

(a) Fire marshal or fire chief having jurisdiction;

(b) Department of labor and industries (electrical);

(c) Health agency having jurisdiction;

(d) Department of ecology or the local agency having jurisdiction for environmental approvals (when applicable); and

(e) Building official of the jurisdiction.

Approval shall be in respect to compliance with pertinent rules and regulations established by said agencies.

(2) The school district shall receive written approvals of the construction documents by the agencies and submit proof of such approvals to the superintendent of public instruction in accordance with WAC 180-29-085.

WSR 94-01-028
PERMANENT RULES
SKAGIT VALLEY COLLEGE
 [Filed December 6, 1993, 10:14 a.m.]

Date of Adoption: November 8, 1993.

Purpose: To eliminate duplication and clarify and update existing procedures for student records policy and filing grievances and set out strong stand against illegal harassment; prohibit smoking on campus.

Citation of Existing Rules Affected by this Order: Repealing chapters 132D-130 and 132D-280 WAC; and amending chapters 132D-120, 132D-140, and 132D-300 WAC; and new chapter 132D-125 WAC.

Statutory Authority for Adoption: RCW 28B.50.140.

Pursuant to notice filed as WSR 93-19-118 on September 21, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 3, 1993
 Wendy K. Bohlke
 Assistant Attorney General
 Senior Counsel

AMENDATORY SECTION (Amending Order 88-01, filed 12/1/88, effective 1/1/89)

WAC 132D-120-040 Student rights. The following enumerated rights are guaranteed to each student within the limitations of statutory law and college policy which are deemed necessary to achieve the educational goals of the college:

(1) Academic freedom.

(a) Students are guaranteed the rights of free inquiry, expression, and assembly upon and within college facilities that are generally open and available to the public.

(b) Students are free to pursue appropriate educational objectives from among the college's curricula, programs and services, subject to the limitations of RCW 28B.50.090 (3)(b).

(c) Students shall be protected from academic evaluation which is arbitrary, prejudiced or capricious, but are responsible for meeting the standards of academic performance established by each of their instructors.

(d) Students have the right to a learning environment which is free from unlawful discrimination, inappropriate, and disrespectful conduct, and any and all harassment, including sexual harassment.

(2) Due process.

(a) The rights of students to be secure in their persons, quarters, papers and effects against unreasonable searches and seizures is guaranteed.

(b) No disciplinary sanction may be imposed on any student without notice to the accused of the nature of the charges.

(c) A student accused of violating this code of student rights and responsibilities is entitled, upon request, to procedural due process as set forth in this chapter.

(3) Distribution and posting. Students may distribute or post printed or published material subject to official procedures printed and available in the office of student programs and activities.

(4) Off-campus speakers. Recognized student organizations shall have the right to invite outside speakers to speak on campus subject to the availability of campus facilities, funding, and compliance with the college procedures available in the office of student affairs.

AMENDATORY SECTION (Amending Order 88-01, filed 12/1/88, effective 1/1/89)

WAC 132D-120-230 Student grievances. The purpose of this section is to protect each student's freedom of expression in the classroom; to protect each student against improper disclosure of the students' views, beliefs and political associations; to protect each student from improper, arbitrary or capricious academic evaluation as evidenced by the student's final course grade; and to afford each student reasonable protection against arbitrary or capricious actions taken outside the classroom by other members of the college community.

Skagit Valley College is committed to protecting the rights and dignity of each individual in the campus community. Therefore, the college will not tolerate discrimination of any kind, at any level.

Further, it is the policy of Skagit Valley College to provide an environment in which students can work and study free from sexual harassment or sexual intimidation. Sexual harassment (~~occurs in a context of unequal power and~~) is a form of sexual discrimination. As such, it is a violation of Title VII of the 1964 Civil Rights Act and Title IX of the 1972 Education Amendments.

Sexual harassment of a student is defined as unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct when: (a) Submission to the conduct is either explicitly or implicitly a term or condition of an individual's academic standing; and/or (b) submission to or rejection of such conduct by an individual is used as the basis for academic decisions affecting that individual; and/or (c) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive environment. Students may follow procedures found at WAC 132D-300-040 and/or may file complaints with outside agencies, as referenced in WAC 132D-300-040(9).

AMENDATORY SECTION (Amending Order 88-01, filed 12/1/88, effective 1/1/89)

WAC 132D-120-260 Informal grievance procedure.

(1) A student wishing to pursue an informal resolution to his or her grievance may first contact the student activities office. That office will serve as a source of information and direction for grievants and shall advise students as to the most effective means of resolving their grievance. This service is optional.

(2) A student may instead, as a first step in the informal grievance procedure, contact the faculty or staff member with whom he or she has a grievance and attempt to resolve the matter through direct discussion.

(3) If direct discussion does not resolve the grievance to the student's satisfaction, the student shall take the matter to the faculty/staff member's immediate supervisor. The supervisor shall serve as a mediator and will attempt to resolve the matter promptly and fairly.

(4) If the efforts of the supervisor also fail to satisfy the grievant, the supervisor shall forward the complaint to the appropriate associate dean who shall, within three working days, decide how best to resolve the grievance. The associate dean shall issue a written opinion.

(5) The student shall be notified of this decision and shall also be informed of his or her right to file a petition to have the grievance heard before the grievance review committee.

(6) The informal grievance procedure shall be completed in fifteen working days unless all parties agree to more time.

(7) Any student alleging a violation of Title IX of the 1972 Education Amendments concerning sexual harassment may avail himself or herself of the procedures in chapter 132D-300 WAC.

AMENDATORY SECTION (Amending Order 88-01, filed 12/1/88, effective 1/1/89)

WAC 132D-120-270 Informal grievance procedure—
~~((Sexual harassment and)) Sex and handicapped discrimination.~~ (1) Any student alleging a violation of Title IX of the Education Amendments of 1972 (sex discrimination) ~~((or))~~ of section 504 of the Rehabilitation Act of 1973 (handicapped discrimination) shall, as a first step in the informal grievance procedure, contact the Title IX/Sec. 504 ~~((ombudsman))~~ officer. The student may contact the student activities office for the name and location of the ~~((ombudsman))~~ Title IX/Sec. 504 officer. Any student alleging a violation of Title IX of the 1972 Education Amendments concerning sexual harassment may avail himself or herself of the procedures in chapter 132D-300 WAC.

(2) The ~~((ombudsman))~~ Title IX/Sec. 504 officer shall:

(a) Provide information about informal and formal options within and outside the college.

(b) Intervene, if requested by either party, in order to resolve the problem to the satisfaction of all.

(3) If the ~~((ombudsman))~~ Title IX/Sec. 504 officer is unable to resolve the grievance, the student may file an official grievance requesting a hearing before the grievance review committee and is entitled to all appeals beyond that committee.

(4) Consultations with the ~~((ombudsman))~~ Title IX/Sec. 504 officer shall be strictly confidential until the ~~((ombudsman))~~ Title IX/Sec. 504 officer begins to act as mediator.

Chapter 132D-125 WAC STUDENT EDUCATION RECORDS

NEW SECTION

WAC 132D-125-010 Purpose. The purpose of this student records policy is to establish rules and procedures that appropriately implement the Family Educational Rights and Privacy Act of 1974 (20 U.S.C. § 1232g). Skagit Valley College is committed to safeguarding appropriate access to student educational records as well as to maintaining individual student privacy. This chapter replaces WAC 132D-130 (Student records) and 132D-280 (Family Educational Rights and Privacy Act).

(1) Generally, students have the right to review and copy their education records. Students also have the right to challenge the content of, the release of, or denial of access to their education records.

(2) The college normally will not permit access to or release of the student's education records to the public without authorization by the student, though some exceptions exist. Please see below for a complete description of the policy.

(3) The college may release directory information concerning a student unless the student requests in writing that directory information not be released.

NEW SECTION

WAC 132D-125-020 Definitions. For purposes of this chapter, the following terms shall have the indicated meanings:

(1) "Student" shall mean any person who is or has been officially registered at and attending Skagit Valley College and with respect to whom the college maintains education records or personally identifiable information.

(2) "Education records" shall refer:

(a) To those records, files, documents, and other materials maintained by Skagit Valley College or by a person acting for Skagit Valley College which contain information directly related to a student;

(b) To records relating to an individual in attendance at the college who is employed as a result of his or her status as a student.

However, records made and maintained by the college in the normal course of business which relate exclusively to a person's capacity as an employee are not education records.

(3) The term "education records" does not include the following:

(a) Records of instructional, supervisory, or administrative personnel and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible or revealed to any other person except a substitute;

(b) Records of the college's department of safety and security, maintained solely for law enforcement purposes, disclosed only to law enforcement officials, and maintained separately from education records in subsection (2) of this section, but only if said law enforcement personnel do not have access to the records under WAC 132D-125-080; or

(c) Records concerning a student which are created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional or paraprofessional capacity, or assisting in that capacity, and which are created, maintained, or used only in connection with the provision of treatment to the student and are not available to anyone other than persons providing such treatment, except that such records may be personally reviewed by a physician or other appropriate professional of the student's choice.

(4) "Personally identifiable information" shall refer to data or information which includes either:

(a) The name of a student, the student's parent, or other family member;

(b) The address of the student;

(c) The address of the student's family;

(d) A personal identifier, such as the student's Social Security number or student number;

(e) A list of personal characteristics which would make it possible to identify the student with reasonable certainty; or

(f) Other information which would make it possible to identify the student with reasonable certainty.

(5) "Dean of administrative and student services" shall refer to the dean of administrative and student services or his or her designee.

NEW SECTION

WAC 132D-125-025 Direction to college offices retaining student education records. All college individuals or offices having custody of education records will develop procedures in accordance with WAC 132D-125-030

through 132D-125-100. Any supplementary regulations found necessary by departments will be filed with the college's records committee, which will be responsible for periodic review of policy and procedures.

(1) Disciplinary records shall be kept separate from academic records, and transcripts or a student's academic record shall contain no notation of any disciplinary action. Special precautions shall be exercised to ensure that information from disciplinary or counseling files is not revealed to unauthorized persons. Provision shall be made for periodic review and routine destruction of inactive disciplinary records by offices maintaining such records.

(2) No records shall be kept that reflect a student's political or ideological beliefs or associations.

NEW SECTION

WAC 132D-125-030 Access to education records.

(1) Except as provided in WAC 132D-125-035, each student at Skagit Valley College shall have access to his or her education records. The right of access shall include the right to inspect, review, and obtain copies of education records.

(2) The dean of administrative and student services shall prepare and maintain a list of the types of student education records which are maintained by Skagit Valley College.

(3) A student wishing access to his or her education records shall submit a written request for access to the dean of administrative and student services. A request for access shall be acted upon by the dean of administrative and student services within a reasonable period of time, not to exceed ten days.

(4) The dean of administrative and student services shall provide students for the college with an opportunity for reasonable access to education records, provided that the dean of administrative and student services shall be responsible for taking appropriate measures to safeguard and ensure the security and privacy of the institution's records while being inspected by students.

(5) The dean of administrative and student services will inform in writing a student who has requested access to his or her education records of the nature of any records which are being withheld from the student on the basis of the exceptions set forth in WAC 132D-125-080 and 132D-125-085. A student may challenge a decision by the dean of administrative and student services to withhold certain of the student's records by filing an appeal with the grievance review committee, WAC 132D-125-060.

(6) Where requested records or data include information on more than one student, the student shall be entitled to receive or be informed of only that part of the record or data that pertains to the student.

(7) Students have the right to obtain copies of their education records. Charges for the copies shall not exceed the cost normally charged by the college (except in cases where charges have previously been board of trustee action for certain specified services), such as transcripts and grade sheets.

(8) The section shall not prohibit the college registrar from providing a student with a copy of the student's academic transcript without prior clearance from the dean of administrative and student services.

NEW SECTION

WAC 132D-125-035 Access to education records—Limitations on access. (1) Skagit Valley College shall not make available to a student the following types of materials:

(a) The financial records of the student's parents or any information contained therein.

(b) Letters or statements of recommendation, evaluation, or comment which were provided to the college in confidence, either expressed or implied, prior to January 1, 1975, provided that such letters or statements shall not be used for purposes other than those for which they were originally intended.

(c) If a student has signed a waiver of the student's right of access in accordance with subsection (2) of this section, confidential records relating to the following:

(i) Admission to any educational agency or institution;

(ii) An application for employment; or

(iii) The receipt of an honor or honorary recognition.

(2) A student, or a person applying for admission to the college, may waive his or her right of access to the type of confidential records referred to in subsection (1)(c) of this section, provided that such waiver shall apply only if the student is, upon request, notified of the names of all persons making confidential recommendations, and such recommendations are used solely for the specific purpose for which the waiver has been granted. The college is not allowed to require such waivers as a condition for admission to, receipt of financial aid from, or receipt of other services or benefits from the college.

(3) If any material or document in the education record of a student includes information concerning more than one student, the student shall only have the right either to inspect and review that portion of the material or document which relates to the student or to be informed of the specific information contained in that portion of the material or document.

NEW SECTION

WAC 132D-125-040 Right to copy education records. (1) The dean of administrative and student services shall, at the request of a student, provide the student with copies of the student's education records. The fees for providing such copies shall not exceed the actual cost to the university of providing the copies.

(2) Official copies of transcripts from other educational institutions, such as high school or other college transcripts, will not be provided to students by the college.

NEW SECTION

WAC 132D-125-045 Request for explanation or interpretation of record. The dean of administrative and student services shall respond to reasonable requests for explanations or interpretations of the contents of student education records.

NEW SECTION

WAC 132D-125-050 Challenges—To content of education records—To release of education records—Or to denial of access to education records. (1) Any student who believes that inaccurate, misleading, or otherwise

inappropriate data is contained within his or her education records shall be permitted to have included within the record a written explanation by the student concerning the content of the records.

(2) A student shall have the right, in accordance with the procedures set forth in WAC 132D-125-055 and 132D-125-060, to:

(a) Challenge the content of education records in order to ensure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of the students;

(b) Have the opportunity to correct or delete inaccurate, misleading, or otherwise inappropriate data contained within education records;

(c) Challenge the release of education records to specific persons as contrary to the provisions of this chapter; and

(d) Challenge a decision by the college to deny the student access to particular types of records.

(3) A student shall not be permitted under this chapter to challenge the validity of grades given in academic courses, except on the grounds that, as a result of clerical error, the student's records fail to accurately reflect the grades actually assigned by an instructor.

NEW SECTION

WAC 132D-125-055 Challenges—Informal proceedings. A student wishing to exercise the rights set forth in WAC 132D-125-050(2) shall first discuss with the dean of administrative and student services the nature of the corrective action sought by the student. Failing resolution, the student may seek formal corrective action under WAC 132D-125-030(5).

NEW SECTION

WAC 132D-125-060 Challenges—Hearing before grievance review committee. (1) If informal proceedings fail to resolve the complaint of a student, the student may file with the dean of administrative and student services a written request for a hearing before the grievance review committee of the college.

(2) Within a reasonable time after submission of a request for hearing, the student rights and responsibilities committee shall conduct a hearing concerning the student's request for corrective action.

The student and the college shall be given a full opportunity to present relevant evidence at the hearing before the student rights and responsibilities committee.

(3) If a student demonstrates that the student's education records are inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student, the student rights and responsibilities committee shall have authority to order the correction or deletion of inaccurate, misleading, or otherwise inappropriate data contained in the records.

(4) If a student demonstrates that the release of the student's education records would be improper under this chapter, the student rights and responsibilities committee shall have authority to order that the records not be released.

(5) If a student demonstrates that the student is entitled to access to particular documents under this chapter, the student rights and responsibilities committee shall have

authority to order that the student be permitted access to the records.

(6) The decision of the student rights and responsibilities committee shall be rendered in writing within a reasonable period of time after the conclusion of the hearing.

NEW SECTION

WAC 132D-125-070 Release of personally identifiable information or education records. The college shall not permit access to or the release of a student's education records or personally identifiable information contained therein to any person without the written consent of the student, except as provided in WAC 132D-125-080, 132D-125-085, or 132D-125-090.

NEW SECTION

WAC 132D-125-075 Release of personally identifiable information or education records—Nature of consent required. Where the consent of a student is required under WAC 132D-125-070 for the release of education records or personally identifiable materials contained therein, the student's consent shall be in writing, shall be signed and dated by the student, and shall include a specification of the records to be released, the reasons for such release, and the names of the parties to whom the records may be released.

NEW SECTION

WAC 132D-125-080 Release of personally identifiable information or education records—Exceptions to consent requirement. (1) The college may permit the access to or release of a student's education records or personally identifiable information contained therein without the written consent of the student to the following parties:

(a) College officials, including faculty members, when the information is required for a legitimate educational purpose within the scope of the recipient's official responsibilities with the college and will be used only in connection with the performance of those responsibilities;

(b) Federal or state officials requiring access to education records in connection with the audit or evaluation of federally or state-supported educational programs or in connection with the enforcement of federal or state legal requirements relating to such programs. In such cases, the information required shall be protected by the federal or state officials in a manner which shall not permit the personal identification of students or their parents to other than those officials, and such personally identifiable data shall be destroyed when no longer needed for the purposes for which was provided;

(c) Agencies or organizations requesting information in connection with a student's application for, or receipt of, financial aid;

(d) Organizations conducting studies for or on behalf of the university for purposes of developing, validating, or administering predictive tests, administering student aid programs, or improving instruction, if such studies are conducted in a manner which will not permit the personal identification of students by persons other than representatives of such organizations, and the information will be

destroyed when no longer needed for the purposes for which it was provided.

(e) Accrediting organizations in order to carry out their accrediting functions;

(f) Any person or entity authorized by judicial order or lawfully issued subpoena to receive such records or information, upon condition that the student is notified of all such orders or subpoenas in advance of compliance therewith by the college. Any college employee or official receiving a subpoena or judicial order for education records or personally identifiable information contained therein shall immediately notify the assistant attorney general representing the college; or

(g) An alleged victim of any crime of violence (as defined in 18 U.S.C. § 16), so long as the information disclosed is the result of a disciplinary proceeding for the crime conducted by the college against the alleged perpetrator.

(2) Education records of a student or personally identifiable information contained therein which are released to third parties, with or without the consent of the student involved, shall be conditioned upon a written agreement indicating that the information cannot subsequently be released in a personally identifiable form to any other party without the written consent of the student involved.

(3) The college shall maintain a record, kept with the education records of each student, indicating all parties, other than those parties specified in subsection (1)(a) of this section, which have requested or obtained access to the student's education records, and indicating the legitimate interest that each such party has in obtaining the records or information contained therein. This record of access shall be available only to the student, to the employees of the college responsible for maintaining the records, and to the parties identified under subsection (1)(a) and (c) of this section.

NEW SECTION

WAC 132D-125-085 Release of information in emergencies. (1) The dean of administrative and student services or his or her designee may, without the consent of a student, release the student's education records or personally identifiable information contained therein to appropriate parties in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of the student or other persons.

(2) The following factors should be taken into consideration in determining whether records may be released under this section:

(a) The seriousness of the threat to the health or safety of the student or other persons;

(b) The need for personally identifiable information concerning the student to meet the emergency;

(c) Whether the parties to whom the records or information are released are in a position to deal with the emergency; and

(d) The extent to which time is of the essence in dealing with the emergency.

(3) If the college, pursuant to subsection (1) of this section, releases personally identifiable information concerning a student without the student's consent, the college shall notify the student as soon as possible of the identity of the

parties and to whom the records or information have been released and of the reasons for the release.

NEW SECTION

WAC 132D-125-090 Directory information. (1) The college may release "directory information" concerning a student to the public unless the student requests in writing of the dean of administrative and student services that the student's directory information not be released except as provided in WAC 132D-125-070, 132D-125-080, or 132D-125-085.

(2) The term "directory information" shall include information relating to the student's name; local and home telephone number; local and home address; date and place of birth; major field of study, dates of attendance, and degrees and awards received; participation in officially recognized sports and activities; weight and height if a member of an athletic team; and the most recent previous educational institution attended.

NEW SECTION

WAC 132D-125-095 Destruction of student records. Except as otherwise provided by law, the college shall not be prevented under this chapter from destroying all or any portion of a student's education records in accordance with established records retention schedules, provided that no education record to which a student has requested access shall be removed or destroyed by the college prior to providing the student with the requested access.

NEW SECTION

WAC 132D-125-100 Notification of rights under this chapter. The college shall annually notify students currently in attendance of their rights under this chapter and the Family Educational Rights and Privacy Act.

The notice shall include a statement of the following student rights:

(1) Inspect and review his or her education records;

(2) Request an amendment of the education records to ensure that they are not inaccurate, misleading, or otherwise in violation of the student's privacy or other rights;

(3) Allow or deny disclosures of personally identifiable information contained in the student's education records, except to the extent that these regulations and the regulations promulgated pursuant to the Family Educational Rights and Privacy Act allow;

(4) File a complaint with the United States Department of Education under 34 C.F.R. 99.64 concerning alleged failures by the college to comply with the requirements of the act;

(5) Access information concerning the cost to be charged for reproducing copies of the student's records; and

(6) Access a copy of the regulations in this chapter.

The notice shall indicate the places where copies of these regulations are located.

REPEALER

The following chapter of the Washington Administrative Code is repealed:

- WAC 132D-130-010 Purpose.
- WAC 132D-130-020 Definitions.
- WAC 132D-130-030 Access to records.
- WAC 132D-130-035 Access to records—Limitations on access.
- WAC 132D-130-040 Right to copy records.
- WAC 132D-130-045 Request for explanation or interpretation of record.
- WAC 132D-130-050 Challenges—To content of records—To release of records—Or to denial of access to records.
- WAC 132D-130-055 Challenges—Informal proceedings.
- WAC 132D-130-060 Challenges—Hearing before grievance review committee.
- WAC 132D-130-070 Release of personally identifiable information or education records.
- WAC 132D-130-075 Release of personally identifiable information or education records—Nature of consent required.
- WAC 132D-130-080 Release of personally identifiable information or education records—Exceptions to consent requirement.
- WAC 132D-130-085 Release of information in emergencies.
- WAC 132D-130-090 Directory information.
- WAC 132D-130-095 Destruction of student records.
- WAC 132D-130-100 Notification of rights under this chapter.

NEW SECTION

WAC 132D-140-090 Smoking on campus. Skagit Valley College desires to provide a healthful environment for its students, staff, and guests. Smoking shall not be permitted in college buildings or vehicles.

REPEALER

The following chapter of the Washington Administrative Code is repealed:

- WAC 132D-280-010 Confidentiality of student records.
- WAC 132D-280-020 Education records—Students' right to inspect.
- WAC 132D-280-025 Requests and appeal procedures.
- WAC 132D-280-030 Release of personally-identifiable records.
- WAC 132D-280-035 College records.
- WAC 132D-280-040 Review of records requests and requests to amend.

AMENDATORY SECTION (Amending Order 89-10, filed 5/15/89)

WAC 132D-300-010 Statement of policy. Skagit Valley Community College is covered by Title IX of the Education Amendments of 1972 prohibiting sex discrimination in education and Section 504 of the Rehabilitation Act of 1973 prohibiting discrimination on the basis of handicap. Section 703, Title VII of the Civil Rights Act of 1964 and chapter 49.60 RCW prohibit discrimination on the basis of race, color, religion, national origin, or sex. The college is committed to protecting the rights and dignity of each individual in the campus community and so will not tolerate illegal discrimination of any kind, at any level.

~~((Further, it is the policy of Skagit Valley Community College to provide an environment in which employees can work free from sexual harassment or sexual intimidation. Sexual harassment is a form of sex discrimination. As such it is a violation of Title VII of the 1964 Civil Rights Act and Title IX of the 1972 Education Amendments.~~

~~Sexual harassment of an employee is defined as unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct when:~~

~~(1) Submission to the conduct is either explicitly or implicitly a term or condition of an individual's employment or career advancement; and/or~~

~~(2) Submission to or rejection of such conduct by an individual is used as the basis for employment decisions or decisions affecting that individual; and/or~~

~~(3) Such conduct has the purpose or effect of unreasonably interfering with an individual's work or has the effect of creating an intimidating, hostile, or offensive environment.))~~ It shall be the policy of Skagit Valley College that harassment directed at any individual or group on the basis of gender, marital status, or sexual orientation is in violation of the mission and purpose of Skagit Valley College and shall not be condoned. Any employee or student who feels that she/he has been sexually harassed is encouraged to deal with the situation as outlined in the following procedure.

AMENDATORY SECTION (Amending Order 89-10, filed 5/15/89)

WAC 132D-300-020 Jurisdiction. This chapter shall serve as a Title ~~((IX))~~ VII/Section 504 grievance procedure for all employees of Skagit Valley Community College including classified staff, faculty, and administrators. Students ~~((shall))~~ may use the grievance procedure provided ~~((in chapter 132D-120 WAC))~~ at WAC 132D-120-270 to resolve Title IX~~((/))~~ and Section 504 grievances, other than claims of sexual harassment, which may be dealt with through the procedures in this chapter.

AMENDATORY SECTION (Amending Order 89-10, filed 5/15/89)

WAC 132D-300-030 Grievance procedure. ~~((+))~~ Any applicant for employment or employee of Skagit Valley Community College who believes he/she has been illegally discriminated against ~~((on the basis of sex or on the basis of a handicap))~~ by reason of race, religion, national origin, sex, veteran status, or handicap may lodge a formal institutional grievance according to the ~~((following))~~ procedures~~((+))~~ in

PERMANENT

subsection (1) of this section. An employee who feels she/he has experienced sexual harassment should follow the procedures in WAC 132D-300-040.

(1) Steps in procedures.

(a) ~~((Step 1:))~~ Informal meeting. The complainant may request an informal meeting with the individual believed to have committed the discriminatory act in an attempt to informally resolve the concern.

(b) ~~((Step 2:))~~ Official hearing. If not satisfied by the results of the informal meeting (or as a first step in the procedure), the complainant shall request a meeting with the college Title IX/handicap officer.

(i) The request for an official hearing must be made in writing and must stipulate the specific grievance(s) the complainant wishes to raise.

(ii) Within thirty calendar days of receiving the written request, the college Title IX/handicap officer shall arrange a meeting to hear the complaint. It shall be at the discretion of the complainant to determine whether the officer will meet with the complainant and the person to whom the complaint has been directed separately or in a single meeting. If the complainant requests a single meeting, the meeting shall be attended by the complainant, the person to whom the complaint is directed, and the college officer, who will chair the meeting.

(iii) Following the hearing and within thirty calendar days of receiving the written request, the college officer will report his/her findings in writing to both the complainant and the person to whom the complaint has been directed.

(c) ~~((Step 3:))~~ Presidential appeal. If the complaint is not resolved as a result of the hearing conducted by the college Title IX/handicap officer, either the complainant or the person to whom the complaint is directed may request an appeal to the college president.

(i) The request must be made in writing within ten days after receipt of the written results of the official hearing.

(ii) Within fifteen days after receiving the request, the college president or the president's designee will conduct the presidential appeal hearing and report the findings in writing to both the complainant and the person to whom the complaint is directed.

(iii) Attendance at the presidential appeal hearing shall be limited to the college president or designee, the Title IX/handicap officer, the complainant, and the person to whom the complaint is directed unless otherwise mutually agreed by the parties. The college president or presidential designee shall preside.

(iv) Either the complainant or the person to whom the complaint is directed may call witnesses at the discretion of the person presiding.

(v) The written findings of the presidential appeal will be considered final. No further intra-institutional appeal exists if the findings indicate that the person against whom the complaint is lodged engaged in sexual harassment or other discriminatory act, disciplinary proceedings may be commenced against the person pursuant to appropriate procedures, depending on whether the person is a member of classified staff, administrative exempt, or faculty.

(2) If desired, inquiries or appeals beyond the institutional level may be directed to:

(a) ~~((Regional Director, Office of Civil Rights, HEW, 2901 Third Avenue, M.S. 510, Seattle, Washington 98121.~~

~~((b))~~) The Equal Opportunity Commission, 1321 - Second Avenue, 7th Floor, Seattle, Washington 98101.

~~((e) The Human Rights Commission, 402 Evergreen Plaza Building, 7th and Capitol Way, Olympia, Washington 98504.)~~ (b) The Human Rights Commission (HRC), 1515 Second Avenue, Columbia Building Suite 400, Seattle, WA 98101.

NEW SECTION

WAC 132D-300-040 Definition—Sexual harassment.

(1) Sexual harassment is an illegal activity and will not be tolerated at Skagit Valley College. Sexual harassment will be defined as any behavior or action, either physical or verbal, which is sexual in nature, is uninvited, unwanted, or nonreciprocal, and:

(a) Submission to sexual harassment is either an implicit or explicit condition of employment or educational opportunity; or

(b) Submission to, or rejection of, sexual harassment is used as a basis for employment or educational decisions; or

(c) Sexual harassment has the purpose or effect of negatively interfering with the individual's work or educational performance or of creating an intimidating, hostile, or offensive work or educational environment.

(2) Sexual harassment may include, but is not limited to, the following:

(a) Unwelcome or repeated sexual advances;

(b) Offensive, disparaging remarks about one's gender, marital status, sexual orientation, or appearance;

(c) Jokes about gender-specific traits;

(d) Remarks about one's physical appearance which imply sexual interest;

(e) Subtle pressure for sexual activity, including sexual propositions;

(f) Unnecessary brushes or touches, including pinching, patting, or grabbing;

(g) Displayed offensive sexual graffiti, gestures, cartoons, or materials;

(h) Sexual innuendos or obscene gestures;

(i) Written communications with sexual overtones;

(j) Sexually offensive remarks disguised as humor;

(k) Unwanted gifts, staring, leering, or unwanted attention.

(3) Investigation by ombudspersons. Skagit Valley College will investigate all allegations of sexual harassment. Students or district employees who feel they have been victims of sexual harassment by a district employee or student are encouraged to file an informal complaint within one hundred eighty days of the incident or pattern or behavior. The college will carry out any investigation in such a way as to protect the rights of both the complainant and the alleged offender. Maximum confidentiality and support for both parties shall be maintained at each step of the procedure.

The district shall have four ombudspersons: A female and male shall be appointed for both the Mount Vernon and Whidbey campuses. Appointment will be by the president of the SVCEA, the president of CSA, and the president of ASSVC. Appointment shall be for staggered three-year terms.

Ombudspersons shall be responsible for receiving complaints under the informal procedure, for receiving and giving training to all members of the college community on sexual harassment, and for conducting awareness activities for all college groups. They shall report directly to the vice-president for educational services, who shall be directly responsible for the implementation of this policy.

When a person believes that she/he has been sexually harassed, the complainant may contact one of the district's ombudspersons. Faculty and staff shall assist the complainant in contacting an ombudsperson. The ombudsperson will provide the complainant with procedures and suggestions to enable the complainant to resolve the problem or to initiate the appropriate complaint process, either formal or informal. All complaints, formal or informal, shall be initiated no later than one hundred eighty days of the most recent incident.

(4) Informal complaint, step 1. When an ombudsperson receives an informal complaint of sexual harassment, she/he will discuss the complaint with the alleged offender. Such informal complaints may come from an individual who was the target of the action or a third party. Complainants may bring a person of their choice to any meeting. The intent of the informal procedure shall be to resolve the complaint in an informal manner, based on the consent of the parties involved, within thirty calendar days of receiving the complaint. The ombudsperson shall keep a written record of this complaint and any action taken, including the nature of the resolution, if one is reached, and shall provide notification to all parties involved. The rights of the complainant and the alleged offender will be protected. Maximum confidentiality and support will be provided for both parties to the extent legally possible.

(5) Informal complaint, step 2. In the event the severity of the case merits other intervention or is not resolved to the satisfaction of the complainant, the following procedures will be followed:

(a) The complainant, within ten working days of the conclusion of the Informal Step 1 process, shall file a written complaint with the ombudsperson stating the times, dates, places, and circumstances surrounding the allegations. The ombudsperson will forward a copy of the complaint to the alleged offender within five working days.

(b) Within the same ten working days period, the ombudsperson is empowered to file a written complaint stating the times, dates, places, and circumstances surrounding allegations which have been reported by a complainant or third parties. The ombudsperson will forward a copy of the complaint to the alleged offender within five working days.

(c) Within the same five working days period, the ombudsperson will notify the appropriate supervisor in writing, who will speak informally with the alleged offender. The ombudsperson shall also provide a copy of the written complaint to the vice-president for educational services, the dean of administrative and student services, or the personnel officer, as appropriate, as part of the effort to resolve the complaint. The ombudsperson shall keep a written record of all actions taken in an effort to resolve the complaint; if resolution is reached, the ombudsperson shall complete a written report of this resolution and submit copies to all parties involved.

(d) The ombudsperson involved shall transmit copies of all written materials to the vice-president for educational services, who will keep them in a confidential manner for a minimum of five years.

(e) The rights of the complainant and the alleged offender will be protected. Maximum confidentiality and support will be provided for both parties to the extent legally possible.

(f) The entire informal procedure will be completed within sixty calendar days of the first complaint.

(6) Formal complaint procedures. If no satisfactory resolution can be achieved at the informal level, or when the severity of the complaints makes it appropriate, the complainant may file a formal written complaint with the appropriate designated college officer, who will conduct an investigation. The appropriate designated college officer shall be:

(a) The vice-president for educational services when the complainant of infractions of this policy is an employee of the college or when a student is complaining against an employee. When a student is involved, the dean of administrative and student services will co-chair the investigation. However, the vice-president for educational services will assume the ultimate responsibility to see the process to conclusion.

(b) The dean of administrative and student services when the complainant of infractions of this policy is a student complaining against another student.

(c) In the event the alleged offender is the vice-president for educational services or the dean of administrative and student services, the designated college officer shall be the president. In the event the alleged offender is the president, the designated college officer shall be the chair of the board of trustees.

During all parts of the investigative action, due process as provided by Washington personnel resources board procedures for classified staff, the negotiated agreement for faculty, and student rights and responsibilities for students shall be followed. These same documents also specify the appropriate procedures for internal appeals. All informal and formal procedures shall be concluded within one hundred eighty days of the original complaint.

(7) Appropriate disciplinary action. Findings of discrimination in the form of sexual harassment will result in immediate and appropriate disciplinary action, which may include but is not limited to the following:

- (a) Findings placed in personnel or student file;
- (b) Reprimand;
- (c) Suspension;
- (d) Dismissal.

In cases of suspension or employment termination, existing procedures for student, administrative, faculty, or classified staff shall be followed. Administrators, paraprofessionals, vendors, and other college employees and agents shall be subject to discipline as deemed appropriate by the designated college officer.

(8) Repeated offenses. When a complaint is made against someone who has been found in the past to have been in violation of the sexual harassment policy, the person receiving the complaint may determine whether the complaint could be a formal complaint. Disciplinary measures chosen for repeat offenders should take into account the

repeated lack of compliance by the offender and should be more severe.

(9) Nondistrict options. At any point during these proceedings, the complainant may file concurrently with an outside agency. Complainants are encouraged to use the internal complaint procedures first. Students may file complaints with the Office of Civil Rights, U.S. Department of Education, 2901 Third Avenue, M/S 106, Seattle, WA 98121. Employees may file complaints with the Equal Employment Opportunity Commission (EEOC), 1321 Second Avenue, 7th Floor, Arcade Plaza, Seattle, WA 98101, or the Human Rights Commission, 1515 Second Avenue, Columbia Bldg., Suite 400, Seattle, WA 98101.

WSR 94-01-030

PERMANENT RULES

STATE BOARD OF EDUCATION

[Filed December 6, 1993, 11:01 a.m.]

Date of Adoption: November 19, 1993.

Purpose: To provide a reference to growth impact fees and their specific statutes. And to provide clarification on when mitigation payments may or may not be used as local match for school construction projects.

Citation of Existing Rules Affected by this Order: Amending WAC 180-27-032.

Statutory Authority for Adoption: RCW 28A.525.020.

Other Authority: Section 24 (8)(e), chapter 233, Laws of 1992.

Pursuant to notice filed as WSR 93-20-090 on October 5, 1993.

Changes Other than Editing from Proposed to Adopted Version: Clarification of applicability of cited statutes and repetition of restrictions on funding.

Effective Date of Rule: Thirty-one days after filing.

December 3, 1993

Dr. Monica Schmidt
Executive Director/Secretary

AMENDATORY SECTION (Amending WSR 91-12-056, filed 6/5/91, effective 7/6/91)

WAC 180-27-032 Growth impact fees and mitigation payments. Notwithstanding the financial requirements of WAC 180-27-030, districts may use growth impact fees as provided for in RCW 82.02.020, 82.02.050 through 82.02.100, 58.17.060 and 58.17.110 to assist in capital construction projects. The ~~((collected))~~ impact fees collected pursuant to the above cited statutes, may be used by the district as local match funding for state assisted capital projects and may not be substituted for the amount of state assistance that would otherwise be provided for school capital projects. Mitigation payments as provided for in RCW 43.21C.060 of the State Environmental Policy Act may not be used by the district as local match funding nor be substituted for the amount of state assistance that would otherwise be provided for school capital projects.

WSR 94-01-032

PERMANENT RULES

GAMBLING COMMISSION

[Filed December 6, 1993, 1:20 p.m.]

Date of Adoption: November 19, 1993.

Purpose: Test for commercial punchboard and pull tab licensees that will reduce used punchboards and pull tab series retention from four months to two months.

Statutory Authority for Adoption: RCW 9.46.070.

Pursuant to notice filed as WSR 93-20-005 on September 22, 1993.

Changes Other than Editing from Proposed to Adopted Version: [No information supplied by agency.]

Effective Date of Rule: Thirty-one days after filing.

December 6, 1993

Sharon M. Tolton

Rules Coordinator

NEW SECTION

WAC 230-30-998 Punchboard and pull tab retention requirements—Test. The commission will conduct a test of an alternative retention period for punchboards and pull tabs beginning January 1, 1994, and lasting through December 31, 1994. The following guidelines and restrictions shall apply during the test:

(1) The test is limited to businesses licensed to operate punchboards and pull tabs as commercial stimulants in jurisdictions which do not require retention of punchboards and pull tabs for a period greater than two months;

(2) Each licensee must notify the commission in writing of its intent to participate in the test prior to participation. The director may refuse participation to any licensee currently facing administrative charges or facing a probation period for past rule violations;

(3) The alternative retention period for punchboards and pull tab series and for winning punches and pull tabs shall be a minimum of two months after the end of the month from which punchboard or pull tab series is removed from play;

(4) Monthly punchboard and pull tab records shall be completed no later than fifteen days following the end of each month and records shall be available for inspection or audit on the next day;

(5) All test participants shall use the alternative inventory record, authorized under WAC 230-30-072 (1)(c). Entries to record purchases and placing punchboards and pull tabs in play shall be made to this record no later than the day following receipt or placing out for play;

(6) For purposes of determining gross gambling receipts for compliance with this title, any difference between recorded and audited gross gambling receipts noted by commission staff, will be applied to an entire year (twelve months) by multiplying the recorded amount by a ratio that is computed by dividing the audited amount by the recorded amount. Prior to applying this ratio, the recorded amount shall be increased for punchboard or pull tab series that are not recorded in the monthly record. The gross gambling receipts for unrecorded boards or series shall be the maximum possible, computed by multiplying the total number of chances available times the price per chance;

(7) In addition to administrative actions that may be pursued, any test participant that fails to comply with the conditions and limitations set forth above or misstates gross gambling receipts by more than one-half percent may be immediately removed from the test by the director and at the director's discretion, after a brief adjudicated proceeding, may be required to retain used punchboard and pull tab series for six months. The six-month alternative may be required for a period of up to one year.

WSR 94-01-033
PERMANENT RULES
GAMBLING COMMISSION
[Filed December 6, 1993, 1:25 p.m.]

Date of Adoption: November 19, 1993.

Purpose: Packet of rules adds bingo equipment as a regulated item.

Citation of Existing Rules Affected by this Order: Amending WAC 230-02-210, 230-02-230, 230-02-250, 230-04-110, 230-04-120, 230-08-017, 230-08-025, 230-08-140, 230-08-150, 230-20-240, and 230-20-241.

Statutory Authority for Adoption: RCW 9.46.070.

Pursuant to notice filed as WSR 93-20-006 on September 22, 1993.

Changes Other Than Editing from Proposed to Adopted Version: WAC 230-02-250, text is the same, but moved around in the first paragraph; WAC 230-04-110, subsections (2)(g) and (4) were changed; WAC 230-04-120, subsections (1)(c), all of (2), (3), (4), (5) were changed. Subsections (6) - (8) were deleted; WAC 230-08-017, the first paragraph and subsections (1) - (4) were changed. Subsections (5) and (6) were added; WAC 230-08-025, subsections (1)(d) and (8) were changed; WAC 230-20-192, subsections (1)(k) and (l), (5)(c), and (6) were changed; and WAC 230-20-240, subsections (4) and (7) were changed.

Effective Date of Rule: Thirty-one days after filing.

December 6, 1993
Sharon M. Tolton
Rules Coordinator

AMENDATORY SECTION (Amending Order 106, filed 4/17/81)

WAC 230-02-210 Distributor defined. A "distributor" is any person who purchases or otherwise obtains a completed piece of equipment for use in authorized gambling activities, including but not limited to punchboards or pull tabs, from any person and sells or otherwise furnishes such equipment, with or without merchandise to be awarded as prizes in connection therewith, to another person for the resale of or the display or operation of that equipment.

As used in these rules, the term "distributor" shall include a person who services and repairs pull tab dispensing devices, bingo equipment, or any other authorized gambling equipment, which shall be authorized so long as the person performing such servicing or repairs is licensed as a distributor or distributor's representative, and makes no addition to, or modification or alteration of, the device.

A manufacturer who sells or otherwise furnishes such equipment not manufactured by him to any other person for

resale or for display or operation of that equipment is also a "distributor."

AMENDATORY SECTION (Amending Order 80, filed 12/28/77)

WAC 230-02-230 Manufacturer defined. A "manufacturer" is any person who fabricates or assembles, from raw materials or subparts, a completed piece of equipment or pieces of equipment for use in authorized gambling activities, including but not limited to punchboards and pull tabs and bingo equipment, and who sells or otherwise furnishes the same to any distributor, operator, or retail outlet.

The term shall include, but not be limited to, any person who converts, modifies, combines, adds to, or removes parts or a portion from any item, device, or assembly to further its promotion, sale, or use as a gambling device or gambling record in this state: Provided, That a person adding only promotional flares to punchboards or pull tab series to advise the public of the prizes available, the rules of play, and the consideration required shall not be deemed a manufacturer.

The term "manufacturer" shall not include a licensed distributor or distributor's representative who services or repairs pull tab dispensing devices or bingo equipment, so long as no addition to, or modification or alteration of, the device is made: Provided, That distributors may perform modifications provided by manufacturers to upgrade equipment to current technology or to remove and install general purpose equipment for trade-in purposes.

AMENDATORY SECTION (Amending Order 134, filed 6/14/83)

WAC 230-02-250 Bingo equipment. Bingo equipment includes all equipment (~~which~~) that is actually used, (~~or~~) made for use, or sold for the purpose of use, in bingo games for which consideration is charged (~~persons to play and in connection with which~~) to participate and prizes are awarded to winners. (~~Unless otherwise specified, the term shall include~~) Bingo equipment includes, but is not (~~be~~) limited to (~~machines~~):

(1) Blowers or other devices from which balls are mixed and randomly withdrawn to determine the letters and numbers to be called (~~the balls themselves~~);

(2) Reusable and disposable bingo cards (~~and any~~);

(3) Electronic flashboards that interface with the mixing and selection device;

(4) Electronic player assistance devices, including software or equipment interfaced with such; and

(5) Any other device commonly used in the direct operation of the game(-

~~bingo game sets commonly manufactured and sold as children's games for a retail price of twenty dollars or less shall be presumed not to be bingo equipment for the purposes of this rule unless the set, or portion thereof, is actually used in such a bingo game.); Provided, That general purpose equipment and supplies that are only indirectly involved in the conduct of the game shall not be deemed bingo equipment. The following equipment and supplies will not be deemed bingo equipment for purposes of this title:~~

(a) Tables, chairs, or card stands;

(b) Audio or video equipment used only to communicate progress of the game to players;

(c) Computer or cash register equipment used to record sales or act as a storage medium for records;

(d) General supplies, such as glue sticks, daubers, and other items for resale to players; and

(e) Bingo games manufactured and sold for recreational purposes.

AMENDATORY SECTION (Amending Order 227, filed 9/18/91, effective 10/19/91)

WAC 230-04-110 Licensing of manufacturers. ((1) A manufacturer shall obtain a license)) A license must be obtained from the commission prior to manufacturing, selling, or supplying gambling equipment to any person(s) within this state, or for use within this state((, one or more of)). The following definitions and requirements apply to certification and licensing of manufacturers:

(1) For purposes of this title, "gambling equipment" includes at least the following devices:

(a) Punchboards and pull tabs;

(b) ((Pull tabs; and

(e)) Devices for the dispensing of pull tabs;

(c) Bingo equipment, as defined by WAC 230-02-250; and

(d) Any gambling equipment or paraphernalia for use in connection with licensed fund raising events or a recreational gaming activity.

(2) The applicant shall include upon the application form supplied by the commission, the following information, as well as all other information and materials ((which are)) required elsewhere ((required under)) in these rules:

(a) The full name and address of the applicant;

(b) The full name and address of each ((of its separate locations manufacturing)) location where such devices are manufactured or stored;

(c) The name ((and)), home address, and share of ownership of all owners of the manufacturing business if the business is not a corporation. If the business is a corporation, the name ((and)), address, and share of ownership of ((each of)) the officers ((and each of)), the directors ((of the corporation)), and ((of each stockholder owning ten percent or more of any class of stock in the corporation)) substantial interest holders;

(d) A full description of each separate type of ((punchboard, pull tab,)) gambling equipment or device ((for the dispensing of pull tabs which the)) that an applicant seeks to manufacture or to market in this state; ((and))

(e) The brand name under which each type of gambling device or equipment is sold;

((3)) (f) If the applicant is ((a foreign manufacturer)) incorporated under laws other than the laws of Washington state, then the full name((s)) and business and home address of the resident agent ((who is a resident of this state)) designated by the applicant pursuant to WAC 230-12-300; and

((4)) (g) A list of all distributors ((of such devices, punchboards or pull tabs,)) receiving gambling equipment and ((of)) all businesses or organizations located within the state of Washington in which the ((licensee)) applicant has ((some)) any financial interest and the details of that finan-

cial interest. For the purpose of this subsection, the term financial interest shall include((, among all other interests,)) all arrangements through which a person directly or indirectly receives any portion of the profits of the licensed manufacturer and indebtedness ((from)) between the licensee ((to the)) and any other person, ((or vice versa)) other than a regulated financial institution, in excess of five ((hundred)) thousand dollars.

(3) An applicant must demonstrate the ability to comply with all manufacturing restrictions and quality control requirements. The licensing process shall include an on-site review of the applicant's manufacturing equipment and process to ensure capability to comply with all regulatory requirements of this title;

(4) The following information shall be included as an attachment to the application form:

(a) A list of all affiliated businesses or corporations in which the applicant, officers, directors, or substantial interest holders of the applicant, either directly or indirectly, own or control:

(i) As a sole proprietor; or

(ii) As a partner; or

(iii) More than fifty percent of the voting stock of a privately held or closed corporation; or

(iv) At least five percent of the voting stock of a publicly traded corporation.

(b) A list of all licensed businesses or corporations in which the applicant, officers, directors, or substantial interest holders of the applicant have any interest;

(c) A list of all jurisdictions in which the applicant or any of the officers, directors, or substantial interest holders of the applicant have been licensed regarding gambling-related activities at any level during the preceding ten years;

(d) A statement regarding whether the applicant or officers, directors, or substantial interest holders have ever had a license for gambling-related activities denied, revoked, or suspended by any jurisdiction for a period longer than thirty days. All details of such must be provided as a part of the application; and

(e) A statement acknowledging that all records related to the ownership or operation of the business shall be made available for review at the time and place requested by commission staff. In addition to other records requested, the following shall be available:

(i) Personal financial records of all substantial interest holders;

(ii) All records related to the scope of activity, including sales of product, purchases of raw materials and parts, and any contracts, franchises, patent agreements, etc., related to sales or purchases; and

(iii) Records related to any financial or management control of or by customers and suppliers.

(5) The applicant shall notify the commission within thirty days of any change in the information submitted on or with the application form((s)); and

(6) The applicant shall comply with all applicable laws of the United States and the state of Washington and all applicable rules of this commission.

AMENDATORY SECTION (Amending Order 227, filed 9/18/91, effective 10/19/91)

WAC 230-04-120 Licensing of distributors. ~~((1))~~ Prior to selling, renting, or otherwise supplying gambling equipment, supplies, or related paraphernalia, including service of such, to any person within the state of Washington or for use within the state of Washington, a distributor shall first obtain a license from the commission ~~((for one or more of the following separate licensed activities)).~~ The following definitions and requirements apply to certification and licensing of distributors:

(1) For purposes of this title, a license is required to sell, rent, or otherwise provide to any person the following items:

- (a) Punchboards and pull tabs;
 - (b) ~~((Pull tabs;~~
 - ~~(e))~~ Devices for the dispensing of pull tabs; ~~((and))~~
 - (c) Bingo equipment, as defined by WAC 230-02-250;
- and
- (d) Any gambling equipment or paraphernalia for use in connection with licensed fund raising events~~((;))~~ or a recreational gaming activity.

(2) The applicant shall include upon the application form supplied by the commission, the following information, as well as all other information and materials required elsewhere in these rules:

- (a) The full name and address of the applicant;
- (b) The business name and address of each ~~((of the separate))~~ location~~((s))~~ operated by the distributor or where records or inventory will be located;
- (c) The name ~~((and)),~~ home address, and share of ownership of all owners of the business if the business is not a corporation. If the business is a corporation, the name ~~((and)),~~ address, and share of ownership of ~~((each of))~~ the officers, ~~((each))~~ the directors, and ~~((each stockholder having ten percent or more of the shares of any class of stock in the corporation))~~ substantial interest holders;

(d) A full description of each separate type of ~~((punchboard, pull tab, or device for the dispensing of pull tabs))~~ gambling equipment or related supplies that the distributor intends to market in this state or for use in this state;

~~((3))~~ (e) The brand name under which ~~((it))~~ each type of gambling equipment will be sold;

~~((4))~~ (f) If the applicant ~~((is a distributor located out of state))~~ does not maintain a business office within the state or is incorporated in another state or county, then the full name~~((;))~~ and business and home address of the resident agent ~~((who is a resident of this state))~~ designated by the applicant pursuant to WAC 230-12-300; and

~~((5))~~ (g) A list of all manufacturers of ~~((such devices))~~ gambling equipment and all businesses or organizations located in the state of Washington in which the applicant has ~~((some))~~ any financial interest and the details of that financial interest. For the purposes of this subsection, the term financial interest shall include~~((, among all other interests, an))~~ all arrangements through which a person directly or indirectly receives any portion of the profits of the licensed distributor and indebtedness ~~((from the))~~ between any other person ~~((to))~~ and the applicant, ~~((or vice versa))~~ other than

a regulated financial institution, in excess of five ~~((hundred))~~ thousand dollars.

(3) The following information shall be included as an attachment to the application form:

(a) A list of all affiliated businesses or corporations in which the applicant, officers, directors, or substantial interest holders of the applicant, either directly or indirectly, own or control:

- (i) As a sole proprietor; or
- (ii) As a partner; or
- (iii) More than fifty percent of the voting stock of a privately held or closed corporation; or
- (iv) At least five percent of the voting stock of a publicly traded corporation.

(b) A list of all licensed businesses or corporations in which the applicant, officers, directors, or substantial interest holders of the applicant have any interest;

(c) A list of all jurisdictions in which the applicant or any of the officers, directors, or substantial interest holders of the applicant have been licensed for gambling-related activities at any level during the preceding ten years;

(d) A statement regarding whether the applicant or officers, directors, or substantial interest holders of the applicant have ever had a license for gambling-related activities denied, revoked, or suspended by any jurisdiction for a period longer than thirty days. All details of such must be provided as a part of the application; and

(e) A statement acknowledging that all records related to the ownership or operation of the business shall be made available for review at the time and place requested by commission staff. In addition to other records requested, the following shall be available:

(i) Personal financial records of all substantial interest holders;

(ii) All records related to the scope of activity, including suppliers, customers, and any contracts related to sales or purchases; and

(iii) Records related to any financial or management control of or by customers and suppliers.

(4) The applicant shall notify the commission within thirty days of any change in the information submitted on or with the application form; and

(5) The applicant shall comply with all applicable laws of the United States and the state of Washington and all applicable rules of this commission.

AMENDATORY SECTION (Amending Order 228, filed 10/15/91, effective 11/15/91)

WAC 230-08-017 Control ~~((and))~~ of gambling equipment—Use of identification and inspection services stamps. ~~((No punchboard, series of pull tabs, mechanical or electronic device for dispensing pull tabs shall be sold or purchased for use within this state until an))~~ To ensure gambling equipment is used only as authorized, manufacturers, distributors, and operators shall maintain close control over all gambling equipment in their possession. Each transfer of such equipment shall be documented by completing an invoice or other written record setting forth the information required by WAC 230-08-040. Identification and inspection services stamps obtained from the commission ~~((has been))~~ shall be used to identify gambling equip-

ment and shall be permanently and conspicuously affixed ((thereto)) to all equipment and devices designated by the commission. Once attached, ((such)) identification and inspection services stamps shall not be removed, disfigured, or otherwise tampered with by any person. These stamps shall be attached and controlled in the following manner:

(1) Identification and inspection services stamps shall be attached to the following gambling equipment and devices:

(a) Punchboards and pull tab series;

(b) Pull tab dispensing devices;

(c) Disposable bingo cards: *Provided*, That this requirement applies to cards shipped for use in Washington state after December 31, 1993. All inventory on hand at the distributor and operator level at the close of business on December 31, 1993, shall be exempt from this requirement; and

(d) Other gambling equipment or devices, as determined by the director.

(2) Identification and inspection services stamps shall only be sold ((only)) to and attached by licensed manufacturers((-) or commission staff: *Provided*, That a licensed owner of controlled gambling equipment may purchase and attach stamps per WAC 230-30-018;

(3) The fee charged for ((each)) identification and inspection services stamps shall be set by the commission at a level sufficient to fund regulation and control of gambling equipment. Fees shall be as set out below:

(a) Punchboards and pull tabs - twenty-five cents((- After September 1, 1988, all punchboards and pull tabs series manufactured, if for sale in Washington state must have identification and inspection stamps plus records entry labels attached. Manufacturers who have identification and inspection services stamps on hand after September 1, 1988, which do not have records entry labels attached, will be afforded the opportunity to exchange these stamps, one for one and without cost by submitting them to the commission's Olympia headquarters office prior to October 1, 1988. After October 1, 1988, any stamps returned will be exchanged only after payment of a ten cent service charge, for each stamp as set out in WAC 230-30-018));

((2)) (b) Pull tab dispensing devices - twenty-five cents;

(c) Disposable bingo cards:

(i) Sets of individual cards or sheets of cards - twenty-five cents;

(ii) Collations of cards - one dollar;

(d) Other equipment or devices - the actual cost of inspection or approval, as determined by the director.

(4) Identification stamps shall only be affixed to ((punchboards, pull tab series flares and mechanical or electronic)) gambling equipment or devices ((for dispensing pull tabs)) in such a manner as to assure reasonable inspection without obstruction. If ((punchboards or pull tabs series flares are)) equipment is enclosed or packaged ((with)) within protective materials, ((after stamps are affixed, then)) the stamps shall be readily visible for inspection without removal of any portion of the protective packaging: *Provided*, That when more than one device is packed in a shipping carton, this requirement shall not apply if the identification and inspection services stamp numbers of all devices contained in the carton are printed or otherwise noted on the outside of the carton. Stamps and records entry labels shall

be affixed ((only by licensed manufacturers)) in the following manner:

(a) Punchboards - On the reverse side ((of all punchboards)) in an area that will not obstruct removal of punches: *Provided*, That if sufficient space is not available on the reverse side, the records entry labels may be wrapped around and/or partially attached to the edge of a punchboard in a manner that will not obstruct display of prizes available or other information required by rules of the commission;

(b) Pull tabs - On the face or reverse side of the flare ((for all pull tab series)). If placed on the face, then they must be in an area that will not obstruct prizes available or any other information required by rules of the commission; and

(c) Pull tab dispensing devices - On the outside of the main body ((of pull tab dispensing devices)), in an area that is not normally removed and replaced, and in a manner that will not obstruct the view of the pull tabs available for play. The records entry labels shall not be affixed to dispensing devices and may be discarded; and

(d) Disposable bingo cards - On the packing label attached to the outside of the shipping carton. Records entry labels shall be attached to the packing slip: *Provided*, That when a set or collation of cards is packed in more than one shipping carton, the stamp shall be attached to carton number one and the stamp number imprinted on all remaining shipping cartons.

((3)) (5) Identification and inspection services stamps shall not be attached to ((punchboards, pull tab series flares or pull tab dispensing)) gambling equipment or devices that do not comply with rules of the commission. If a piece of equipment or a device requires specific commission approval, stamps shall not be affixed ((to any device)) prior to such approval ((of the device by the commission)); and

(6) Any person requesting commission staff review, inspection, and/or evaluation of equipment, paraphernalia, services, or schemes related to licensed gambling activities shall reimburse the commission the cost to conduct such. If the requestor is currently licensed, there will be no assessment of cost for the first hour of service. A deposit of estimated cost may be required prior to performance of such service.

AMENDATORY SECTION (Amending Order 231, filed 9/18/92, effective 10/19/92)

WAC 230-08-025 Accounting records to be maintained by distributors and manufacturers. Every licensed distributor and manufacturer shall keep and maintain a complete set of records which include all details of all activities of the licensee related to the conduct of the licensed activity. These records shall be recorded using the double entry accounting system and maintained in accordance with generally accepted accounting principles. This system shall also be on the same basis as the licensee's federal income tax return. All records shall be maintained for a period of not less than three years following the end of the licensee's fiscal year. These records shall be updated at least once a month and provide a monthly balance for each account. The minimum record system shall include the following:

(1) Sales invoices - every manufacturer and distributor shall record every sale, return, or any other type of transfer of punchboards/pull tabs, (~~(or)~~) pull tab dispensing devices or bingo equipment including cards, by completing a standard sales invoice or credit memo. Distributors shall use an invoice in a format prescribed and approved by the commission that includes a separate line for each identification and inspection services stamp number. This invoice shall provide space for the operator to either attach a records entry label or enter the identification and inspection services stamp number and the date the device was placed out for play. These spaces shall be adjacent to the written entry of the identification and inspection services stamp number made by the distributor. These invoices shall set out the following information:

(a) Each invoice must be prenumbered at the time of purchase. The numbering must be consecutive, using not less than four digits: *Provided, That* manufacturers and distributors may use a computer generated numbering system if the same system is used for all sales and specific numbers can not be input by use of a manual override function;

(b) The date of sale. For distributors only: If the date of delivery is different, then the delivery date must also be entered;

(c) The customer's name and an adequate business address;

(d) A full description of each item sold, including the identification and inspection services stamp number for each item(~~(- For all sales occurring after December 31, 1988, distributors shall use a standard invoice in a format prescribed and approved by the commission. A separate line shall be used for each stamp number. This invoice shall provide space for the operator to either attach a records entry label or enter the identification and inspection services stamp number and the date the device was placed out for play. These spaces shall be adjacent to the written entry of the I.D. stamp number made by the distributor), if attached, and all information required by WAC 230-08-040;~~);

(e) The quantity and sales price of each individual item, including individual items of merchandise to be used as prizes on punchboards and pull tabs;

(f) The gross amount of each sale to each customer including all discount terms and the total dollar amount of any discount;

(g) The sales invoice shall be prepared in at least three parts: *Provided, That* (~~(after December 31, 1988, all distributor)~~) invoices (~~(shall have)~~) for sales to operators shall be prepared in at least four parts(~~(- and the)~~). Invoices shall be distributed and maintained as follows:

(i) The original shall be issued to the customer: *Provided, That* (~~(after December 31, 1988,)~~) an additional copy of distributor invoices shall be provided to the (~~(customer)~~) operator;

(ii) One shall be retained in an invoice file by customer name; and

(iii) One shall be retained in an invoice file by invoice number or in an alternative manner that accounts for each invoice numerically. This provision may be waived if the licensee receives written commission approval.

(h) Credit memos for returned items shall be prepared in the same detail as (a) through (g) of this subsection.

(2) Sales journal - the sales journal shall contain at least, but not be limited to, the following by month:

(a) The date of the sale;

(b) The invoice number of the sale;

(c) The customer name or person remitting a payment;

(d) Sales shall be categorized at least by the following:

(i) Punchboards that pay out cash prizes;

(ii) Punchboards that pay out merchandise prizes;

(iii) Pull tabs that pay out cash prizes;

(iv) Pull tabs that pay out merchandise prizes;

(v) Pull tab dispensing devices;

(vi) Merchandise(~~(- Only that which is used))~~) that is intended for use as a prize on a punchboard(~~(-))~~) or pull tab series;

(vii) Bingo equipment;

(viii) Other types of sales directly related to gambling activities, including but not limited to, equipment leases, equipment sales, and (~~(bingo)~~) supplies; and

(ix) Sales and leases of general purpose equipment and supplies indirectly related to gambling activities, including cash registers, scales, tables, chairs, glue sticks, souvenirs, etc.

(e) Total amount of the invoice(~~(-))~~;

(3) Cash disbursements book (check register) - this record shall include a recording of all checks issued by the licensee, cash payments made by the licensee, or payments made by any other means. All expenses by the licensee, both gambling and nongambling related, shall be documented by invoices or other appropriate supporting documents. Entries to this record shall contain at least, but not limited to, the following information by month:

(a) The date the check was issued or payment made;

(b) The number of the check issued;

(c) The name of the payee; and

(d) Each disbursement shall be categorized by type of expense.

(4) Cash receipts - all cash receipts shall be recorded in an original book of entry whether it be a sales journal, a check register, or a separate cash receipts journal, and at a minimum shall include a recording of not only cash sales, but also cash received from all sources, and shall contain at least, but not limited to, the following by month:

(a) The date the payment was received;

(b) The name of the person remitting the payment;

(c) The amount of payment received(~~(-))~~;

(5) General ledger - each licensee whose gambling related sales exceed \$500,000 per year, shall have a general ledger which shall contain, in addition to all other accounts by month, a separate sales account for each type of sale(~~(-))~~;

(6) Bank reconciliation - a bank reconciliation shall be performed each month. In addition, all (~~(undeposited)~~) funds that have not been deposited at year end shall be reconciled in an account titled "cash on hand(~~(-))~~";

(7) Copies of all financial data which support tax reports to any and all governmental agencies(~~(-))~~;

(8) Manufacturer shall maintain records that provide an accountability trail for all identification and inspection services stamps purchased. These records shall include enough details to allow audit of all used, unused, and damaged stamps and includes the following minimum items:

(a) The name of the purchaser;

(b) The date of the sale; and

(c) The invoice number recording the sale.

(9) An alternative format may be used for subsections (1)(a), (g)(ii), (g)(iii), (h), (2), and (3), of this section upon advance written approval from the commission.

NEW SECTION

WAC 230-08-040 Sales invoices—Minimum information to be recorded for transfer of gambling equipment. In addition to entries required by WAC 230-08-025, the following information shall be recorded on invoices for sales or transfer of gambling equipment:

(1) Punchboards/pull tabs - for each board or series:

- (a) Trade name of device;
- (b) Type of device;

(c) Form number or other manufacturer-assigned scheme to specifically identify a device, including the size or number of chances; and

- (d) Identification and inspection services stamp number.
- (2) Pull tab dispensing devices:

- (a) Trade name of device;
- (b) Type of device; and
- (c) Identification and inspection services stamp number.

(3) Disposable bingo cards - for each set of cards or collation of packets:

- (a) Type of product, including product line;
- (b) Description of product, including the number of cartons, "series," "on," "cut," and "up";
- (c) Identification and inspection services stamp number;
- (d) Serial number or, if packets, serial number of the top page;

(e) Color and border pattern or, if packets, color and border pattern of the top page; and

(f) The unit or package number when a series or collation has been divided as authorized in WAC 230-20-192(6).

(4) All other gambling equipment:

- (a) Trade name of device;
- (b) Type of device;
- (c) Serial number or other identification numbers or characteristics; and
- (d) Identification and inspection services stamp number.

AMENDATORY SECTION (Amending Order 201, filed 11/27/89, effective 12/28/89)

WAC 230-08-140 Quarterly activity reports by distributors. ~~((+))~~ Each licensed distributor shall submit an activity report to the commission concerning sales and services relating to gambling activities each quarter ~~(-The)~~ by completing a report form ((shall be)) furnished by the commission. The following requirements shall be followed for completion and filing of activity reports:

(1) Quarterly reporting periods are defined as:

- (a) January 1st through March 31st;
- (b) April 1st through June 30th;
- (c) July 1st through September 30th; and
- (d) October 1st through December 31st.

(2) The completed report shall be received in the office of the commission or postmarked no later than ~~((30))~~ thirty days following the end of the period for which it is made~~((:))~~;

(3) The report shall be signed by the highest ranking executive officer or their designee. If the report is prepared by someone other than the licensee or their employee, then the preparer's name and business telephone number must be provided~~((:))~~;

(4) The report shall include, among other items, the following:

(a) The gross ~~((receipts from all))~~ sales of ~~((devices,))~~ gambling related supplies or equipment or merchandise of any kind which could be used to operate, or in connection with, punchboards, pull tabs, pull tab dispensing devices, bingo, or ~~((electronic crane))~~ amusement games, where such sales are made in the state of Washington or for use or distribution within this state~~((:))~~;

(b) The quantity of each specific type of device, equipment or merchandise sold within this state or for distribution and use within this state by the licensee~~((:))~~;

(c) A listing of the name and address of each person who was a distributor's representative for the licensee during the three month period or who attempted to solicit sales of such devices, equipment or merchandise, either within the state of Washington or for use or distribution within the state~~((:))~~; and

(d) The number of employees in the state of Washington other than those listed in ~~((3) above)~~ (c) of this subsection.

(5) Each distributor with an active license must submit a report regardless of the level of activity. If no activity was conducted during the period, a report stating "no activity" shall be submitted~~((:))~~;

(6) If a licensee does not renew their license, then they shall file a report for the period between the previous report filed and the expiration date of the license.

AMENDATORY SECTION (Amending Order 201, filed 11/27/89, effective 12/28/89)

WAC 230-08-150 Quarterly activity reports by manufacturers. Each licensed manufacturer shall submit an activity report to the commission concerning all sales and services relating to gambling activities each quarter ~~((The))~~ by completing a report form ((shall be)) furnished by the commission. The following requirements shall be followed for completion and filing of activity reports:

(1) Quarterly reporting periods are defined as:

- (a) January 1st through March 31st;
- (b) April 1st through June 30th;
- (c) July 1st through September 30th; and
- (d) October 1st through December 31st.

(2) The completed report shall be received in the office of the commission or postmarked no later than ~~((30))~~ thirty days following the end of the period for which it is made~~((:))~~;

(3) The report shall be signed by the highest ranking executive officer or their designee. If the report is prepared by someone other than the licensee or their employee, then the preparer shall also sign the report~~((:))~~;

(4) The report shall include, among other items, the following:

(a) The gross ~~((receipts from all))~~ sales of ~~((devices,))~~ gambling related supplies or equipment, or merchandise of any kind which could be used to operate, or in connection with, punchboards, pull tabs, pull tab dispensing devices,

bingo, or ~~((electronic crane))~~ amusement games, when such sales are made in the state of Washington or for distribution or use within the state of Washington((-));

(b) The quantity of each specific type of such device, equipment, or merchandise sold within the state or for distribution or use within the state of Washington by the licensee((-);

(c) A listing of the name and address of each person who was a manufacturer's representative for the licensee or who solicited sales of such devices or equipment for or on behalf of the licensee within the state of Washington or for use or distribution within the state((-); and

(d) The number of employees in the state of Washington other than those listed in ~~((3) above))~~ (c) of this subsection.

(5) Each manufacturer with an active license must submit a report regardless of the level of activity. If no activity was conducted during the period, a report stating "no activity" shall be submitted((-);

(6) If a licensee does not renew their license, then they shall file a report for the period between the previous report filed and the expiration date of the license.

NEW SECTION

WAC 230-20-192 Standards for disposable bingo cards—Definitions. Disposable bingo cards sold for use in the state of Washington after December 31, 1993, shall be manufactured and controlled using processes and procedures that ensure integrity of the activity and facilitates regulation by the commission. Manufacturers of disposable bingo cards shall comply with the following requirements:

(1) Manufacturers shall establish quality control procedures necessary to ensure manufacturing processes, including collating of cards into packs or packets, meet the requirements of this section. Quality control procedures shall be documented and provided to commission staff upon request;

(2) For purposes of this title, the following definitions apply:

(a) "Card" or "face" means a unique group and configuration of numbers or symbols imprinted on paper, cardboard, or other materials, and designed to be used to conduct bingo games;

(b) "Card number" means the number assigned by the manufacturer to identify a single card or face. A "card number" may also be referred to as a "face" or "perm" number;

(c) "Collate" means the process of cutting and/or assembling master sheets or precut sheets of cards from one or more sets of cards into packets or books for marketing purposes. "Collate" may also be referred to as "finish" or "finishing";

(d) "Collation" means a group of packets or books of cards assembled from more than one set of cards;

(e) "Consecutively numbered" means a numbering system normally beginning with the number one, increased by one for each individual unit added to the group, and ending with a number identical to the total number of units assigned to that group;

(f) "Cut" means the layout or orientation of cards or sheets of cards subdivided from a master sheet of cards or faces. A "cut" will be either square, horizontal, or vertical;

(g) "Disposable bingo card" means a nonreusable paper bingo card manufactured by a licensed manufacturer;

(h) "Duplicate cards" means two or more cards that are imprinted with the same numbers or symbols, regardless of the configuration or location of such numbers or symbols on the card;

(i) "On" means the number of cards or faces imprinted on a sheet or "cut." The term is normally preceded by the number of cards;

(j) "Pack" or "packet" means a group of cards or sheets of cards collated into a book when each page or sheet in the book is intended for use to play a separate bingo game, including "on-the-way" games, within a session;

(k) "Product line" means a specific type of card, identifiable by features or characteristics that are unique when compared to other types of cards marketed by the manufacturer. A "product line" includes all series and all cards within each series as identified by the manufacturer;

(l) "Serial number" means a number assigned to a set of cards by a manufacturer for identification and tracking purposes when the same number is not used to identify another set of cards from the same product line, color, border pattern, and series in less than 999,999 occurrences or twelve months, whichever occurs first: *Provided*, That if the product line is used as a determining factor for assignment of a serial number, the difference between various product lines must be readily identifiable by observation;

(m) "Series" of cards means a specific group of cards or faces that have been assigned consecutive card or face numbers by a manufacturer. Series are typically identified by the first and last card number in the group of cards, such as "1 to 9000 series";

(n) "Set" of cards means a specific group of cards from the same product line, which are the same color, border pattern, and imprinted with the same serial number. A "set" of cards may include more than one series of cards or faces;

(o) "Sheet number" means the number assigned by the manufacturer to identify an arrangement of more than one card that results from dividing master sheets of cards to facilitate marketing;

(p) "Skip" means the standard spread or difference between card or sheet numbers at different page levels in packs or packets;

(q) "Subset" means a portion of a set of cards or collation of packets that has been divided by a licensed distributor to facilitate marketing; and

(r) "Up" means the number of pages or sheets collated into each packet or book of cards. The term is normally preceded by the number of pages or sheets.

(3) Each card or face in a particular type or product line must be imprinted with a unique set of numbers or symbols and configuration of numbers or symbols. Duplicate cards within a specific product line are prohibited. Manufacturers of disposable bingo cards are responsible for ensuring that there are no duplicate cards in a set or collation of cards sold to distributors or operators: *Provided*, That duplicate cards can be collated into packets if they are located at different page levels in the packets and intended only for use during separate games, including "on-the-way" games, within a session. If a manufacturer discovers a duplicate card error or is notified of such by the commission staff or a licensee, it shall immediately comply with the following steps:

(a) Stop marketing the product line containing duplicate cards in Washington;

(b) Recall all sets of cards and/or collations of packets or books containing duplicate cards at the same page level;

(c) Take steps to correct manufacturing or collating processes necessary to ensure duplicate cards are not sold to operators, and inform the commission in writing regarding steps taken;

(d) Reimburse all operators who submit a claim for prizes paid as a result of selling sets or collations containing duplicate cards when such claim has been validated by commission staff; and

(e) Reimburse the commission for all cost incurred investigating duplicate card complaints that result in findings that the error was caused by manufacturers.

(4) Packets of cards must be collated so that each page of the packet:

(a) Is from a different set of cards;

(b) Has skips that are consistent throughout the entire collation and contains cards that are different when compared to other cards or faces in the pack or packet; and

(c) Has a different color or border pattern.

(5) Each set must include an audit system that allows identification of that specific set and each specific card within that set, allows tracking of the transfer of cards from the point of manufacture to operators, and facilitates sale by the operator to the player: *Provided*, That audit systems that accomplish regulatory requirements using alternative controls may be approved by the commission staff. The audit system shall meet the following requirements:

(a) Each set of cards manufactured as a specific product line, using the same color and border pattern, will be assigned a unique serial number by the manufacturer. The serial number must be imprinted on each card or face;

(b) Each card or face must be identified by a card number imprinted on the face of the card: *Provided*, That cards used in "player selection" games, authorized by WAC 230-20-241, are exempted from this requirement if an alternative control numbering system is used; and

(c) Each sheet of cards within a set must be consecutively numbered: *Provided*, That sheets of cards do not have to be numbered if alternative audit controls are available and disclosed to the operator.

(6) Each set of cards or collation of packets of cards shall be sold intact as a single unit: *Provided*, That for ease of marketing to Class E and below operators and to operators of authorized unlicensed activities, distributors may divide sets or collations as authorized below:

(a) Cartons or packages assembled by manufacturers can not be opened prior to sale to an operator, except that distributors may open cartons or packages as authorized below:

(i) At an operator's request to change the "on," "up," and "cut." When such modification is made, the distributor shall be responsible for resealing the carton and noting all changes on the packing label;

(ii) To provide cards to Class A or B bingo games and for unlicensed activities authorized by RCW 9.46.0321 or 9.46.0355; and

(iii) To provide cards to individuals for noncommercial recreational activities.

(b) Subsets must contain at least one carton or package: *Provided*, That cartons or packages may be broken and cards sold in smaller quantities under conditions described in subsection (6)(a) (i) and (ii) of this section; and

(c) Subsets of cards used for "hidden face" bingo games must contain at least one thousand cards or sheets of cards.

(7) In addition to the requirements of subsections (1) through (6) of this section, cards sold to operators for use in the operation of "hidden face" bingo games, authorized by WAC 230-20-243, must meet the following requirements:

(a) Each card or sheet of cards must be printed, folded, and sealed in a manner that prohibits determination of numbers or symbols, configurations of such on the card, or the card number prior to opening by the player;

(b) Each card or sheet of cards must have a separate numbering system that is randomly distributed when compared to the card number imprinted in the "free" space. Manufacturers must utilize procedures that mix cards or sheets of cards in a manner that ensures no consistent relationship exists between the "card numbers" and separate numbering system within a set or subset and that there are no patterns or consistent relationships of the location of a specific card number between subsets from different sets;

(c) The serial number and the additional card or sheet number, required by (b) of this subsection, must be imprinted on the outside of the cards or sheets of cards and visible for recording without opening the card or sheet of cards; and

(d) Each set of cards must contain at least six thousand unique faces or patterns of numbers or symbols.

(8) In addition to the requirements of subsections (1) through (6) of this section, cards sold to operators for use in "player selection" bingo games, authorized by WAC 230-20-241, must be printed on two-part, self-duplicating paper that provides an original and duplicate copy;

(9) A packing record must be completed for each set of cards or collation of packets and either enclosed inside or in an envelope attached to the carton or package. If the marketing unit contains more than one carton or package, the packing record must be located on carton or package number one. The packing record must include at least the following:

(a) Name of manufacturer;

(b) Description of product, including the "series," "on," "cut," and "up";

(c) Records entry labels that match the identification and inspection services stamp attached to the packing label on the outside of the carton or package;

(d) Serial number or, if packets, serial number of the top page;

(e) Color and border pattern or, if packets, colors and border patterns of all sets and the sequence they are collated in the packet; and

(f) A record of any missing cards, sheets of cards, or packets.

(10) Each separate packing or marketing unit containing a set of cards or collation of packets of cards must be identified in a manner that allows determination of the contents without opening the package. If the marketing unit contains more than one case or carton, each unit shall be labeled and numbered. Minimum information to be disclosed on each carton or package:

(a) The identification and inspection services stamp number;

(b) Serial number or, if packets, serial number of the top page;

(c) Color and border pattern or, if packets, color and border pattern of the top page; and

(d) Number of the carton and the total number of cartons included in the marketing unit.

(11) Sets of cards, collations of packets, or any other marketing units established by a manufacturer shall be complete and contain the correct number of cards or packets and the specific cards or packets noted on the packing slip: *Provided*, That up to one percent of the cards in the set may be missing if all missing cards, sheets, or packets are documented on the packing record enclosed in carton or package number one of the marketing unit; and

(12) To provide the commission and operators the ability to verify the authenticity of winning cards, each manufacturer shall prepare and make available a master verification system for each type or product line of cards it manufactures. This master verification system shall provide a facsimile of each card within a set of cards by the card number. The master verification system shall display the exact numbers or symbols and the location or configuration of numbers or symbols on the card.

AMENDATORY SECTION (Amending Order 218, filed 11/26/90, effective 12/27/90)

WAC 230-20-240 Bingo equipment to be used. The conduct of bingo must include the following required items:

(1) A mechanical device (~~which~~) that uses (~~an~~) air flow for mixing and randomly withdrawing balls to determine the letters and numbers or symbols to be called must be utilized by all Class D and above operators. This device shall be constructed in (~~a~~) the following manner (~~that~~):

(a) It will allow participants full view of the mixing action of the balls; and

(b) The operation cannot be interrupted to change the random placement of the balls at the exit receptacle of the device, except when the device is shut off as allowed by WAC 230-20-246.

(2) A set of seventy-five balls bearing the numbers (~~+~~) one through (~~75~~) seventy-five and the letters B, I, N, G, (~~and~~) or O. The (~~75~~) entire set of balls shall be available for inspection by the players before a bingo session begins to determine that all are present and in operating condition. Each numbered ball shall be the same weight as each of the other balls and free from any defects(~~-~~);

(3) Flashboards shall be utilized to display numbers called at all Class D and above bingo games. They must be visible to all players and clearly indicate all numbers that have been called: *Provided*, That malfunctions occurring during a bingo occasion need not be repaired during that occasion, but must be repaired before use on any other occasion;

(4) (~~Except as provided for under WAC 230-20-241, hardcards and disposable~~) Bingo cards must be preprinted, manufactured cards (~~and~~) that meet the following standards:

(a) Have twenty-five spaces, one of which may be a free space, arranged in five even columns headed with the letters B, I, N, G, and O(~~-~~

~~(5) Each set of disposable bingo cards must be consecutively numbered from the first card to the last card, or from the first sheet of cards to the last sheet of cards. Each card or sheet must have printed on its face both its individual card or sheet number, and the series number assigned by the manufacturer to that set of disposable cards: *Provided*, That cards used in player selection games may be exempted from having separate series numbers if:~~

~~(a) The card or sheet numbering system has at least six digits and the numbering sequence for any set of cards of the same color does not repeat in less than 999,999 numbers; and~~

~~(b) Cards or sheet of cards of the same color with duplicate numbers, must not be purchased, maintained, and/or utilized on the bingo premises, prior to completing play of all similarly numbered and colored cards.~~

~~(c) In the instance of games utilizing electronically generated receipts, the receipt is used as the bingo card, and the receipt numbering sequence does not repeat on an individual game before 999,999 receipts have been issued.); and except for the free space, imprinted with numbers and symbols: *Provided*, That bingo cards used for conducting player selection games are exempt from the requirements of this subsection if the requirements of WAC 230-20-241 are followed:~~

~~(b) After December 31, 1993, be manufactured by a licensed manufacturer: *Provided*, That electronically generated bingo cards authorized by WAC 230-20-101(3) may be produced by the operator using a printer interfaced with an electronic data base system: *Provided further*, That cards used in player selection games may be manufactured by unlicensed manufacturers if:~~

~~(i) The primary activity of such manufacturer is producing nongambling products;~~

~~(ii) Cards must meet the requirements of WAC 230-20-192 and 230-20-241. The licensee that initially purchases such cards from the unlicensed manufacturer shall assume responsibility for compliance with all commission requirements;~~

~~(iii) In addition to the requirements set out in WAC 230-08-024 and 230-08-040, the invoice transferring these cards must include the beginning card number. If an operator purchases such cards directly from an unlicensed manufacturer, the operator shall assume responsibility for compliance with this requirement.~~

~~(c) All disposable bingo cards must meet the requirements of WAC 230-20-192; and~~

~~(d) Electronically generated cards and supporting equipment must meet the requirements of WAC 230-20-101(3).~~

~~(5) Effective January 1, 1994, all Class G and above bingo licensees shall conduct bingo games using disposable bingo cards or electronically generated cards. All income must be receipted for by using the audit system required by WAC 230-20-192 in conjunction with appropriate receipting system required by WAC 230-20-101 (3), (4), or (5);~~

~~(6) Effective January 1, 1994, duplicate cards, as defined in WAC 230-20-192, are prohibited in the operation of bingo games conducted by Class D or above licensees. Operators are advised that conducting games using cards manufactured by different manufacturers may result in duplicate cards being placed in play and that the majority of~~

cards in the "1 to 9000 series" are duplicate, regardless of the manufacturer. Duplicate card violations that result from use of cards from different manufacturers shall be the responsibility of the operator: *Provided*, That this section shall not apply to braille cards, authorized by WAC 230-20-246(4), if the operator takes steps to prevent duplicate cards and informs players regarding limitations to prizes when winners have duplicate cards because braille cards are being played;

(7) If duplicate cards are inadvertently sold at bingo games conducted by Class D or above licensees after June 30, 1994, the following procedures and restrictions apply:

(a) If all winners with duplicate cards are paid the entire prize amount that would be due if there were no duplicate cards, the licensee shall not be deemed to be in violation of this section;

(b) The amount of the prize for games with winners having duplicate cards shall be computed and paid using the following guidelines:

(i) Games that provide a bonus for a single winner - If all winners have duplicate cards then all winners shall be paid the bonus;

(ii) Games that result in multiple winners, some of which are players with duplicate cards - The split of the prize pool will be computed by counting all duplicate card winners as one. After the prize pool split is computed using this method, all winners will be paid according to the computed prize split;

(iii) If the prize pool contains noncash or merchandise prizes, the amount added to the prize pool for computing the split shall be the licensee's cost or retail value, whichever is posted in the game schedule: *Provided*, That manufacturers shall not be responsible for increases to the prize pool required by this subsection; and

(iv) If the prize is greater than one thousand dollars, the operator shall not be required to increase the total prize pool by more than fifty percent or five thousand dollars, whichever is less: *Provided*, That this limitation shall only be authorized once within a twelve-month period. If this limitation has been used within the last twelve months, the full prize amount shall be paid to all holders of duplicate cards.

(c) Increases to prize pools as a result of duplicate card errors, for which the licensee is not reimbursed by a manufacturer, may be deducted from prize payouts for computing compliance with WAC 230-20-064;

(d) Details of circumstances that resulted in duplicate cards being sold shall be documented and maintained as a part of the daily bingo record for the session;

(e) The commission shall be notified within forty-eight hours after discovery of a duplicate card error if:

(i) Caused by manufacturer printing, packaging, or collation errors; or

(ii) Any player winning with a duplicate card was not paid the entire prize amount.

(f) Licensees shall pursue reimbursement of all prizes paid due to errors from the manufacturer responsible for such errors.

AMENDATORY SECTION (Amending Order 218, filed 11/26/90, effective 12/27/90)

WAC 230-20-241 Player selection games. A licensee may offer bingo games in which players are allowed to select their own numbers (~~— In such games, the cards used are not required to have five even columns with preprinted letters~~) if the following conditions are met:

(1) The cards used to conduct the games must have controls that provide an audit trail adequate to determine all winning combinations are valid. The following types of cards are authorized:

(a) Two-part disposable cards may be used if the following conditions are met:

(i) The cards are printed on two-part, self-duplicating paper (~~(which)~~) that provides for an original and a duplicate copy;

(ii) The disposable card method of receipting for income per WAC (~~(230-20-100(1)(e))~~) 230-20-101(4) is used (~~— The licensee shall not purchase or use disposable cards without predesignated numbers and letters unless the purchase invoice contains all the items required by WAC 230-20-101(4). Purchase invoices for all disposable cards, either in play or in the unplayed inventory, are maintained on the premises~~);

(iii) Players shall mark their numbers on each card in a distinct, clear, and legible manner prior to separation of the duplicate and original. No alterations are allowed after separation of the duplicate and original cards. Operators shall establish and set forth in plain view, house rules setting out any conditions by which an entry may be added, deleted or changed prior to separation. Any such changes must be verified by a worker authorized by the bingo manager;

(iv) All original cards shall be placed in containers (~~(which)~~) that shall be physically locked and controlled to assure no cards are placed in the container after the first bingo ball is called; and

(v) The player retains and plays the duplicate copy(~~(s)~~).

(b) Electronically generated cards may be used if the following conditions are met:

(i) The electronically generated bingo card method of receipting for income per WAC 230-20-101(3) is used;

(ii) All data required to be printed on the card by WAC 230-20-101 (3)(b) must be legible; and

(iii) Players do not mark or deface the card in any manner (~~(which)~~) that prevents reading of the bingo numbers or any of the data imprinted on the card as set out in WAC 230-20-101 (3)(d).

(2) In addition to the requirements of WAC 230-20-102 and 230-20-246(~~(14)~~), a winning card of (~~(\$250.00)~~) two hundred fifty dollars or more (~~(+)~~) shall be verified by the winner's signature on the back of the card: *Provided*, That if a two-part card, allowed by subsection (1)(a) above, is used, the verifying neutral player's name and complete address must be recorded on the back of the original card;

(3) All winning cards and the duplicate copies, if required, shall be retained by the operator as a part of (~~(their)~~) its daily bingo records; and

(4) Incomplete cards, cards with alterations (~~(which)~~) that were not verified per subsection (1)(~~(e)~~ above) (a)(iii) of this section, and cards for which all required imprinted data is not displayed and legible shall not be paid as win-

ners. Incomplete, altered, and unreadable cards are the players' responsibility and refunds shall not be allowed: *Provided*, That a one-for-one exchange may be made by the game management in cases where errors are discovered prior to the start of the game or ~~((separation of))~~ before the duplicate and original sheets have been separated. In this case the operator will mark "VOID" on the original, initial next to the players initials, and maintain the replaced card with ~~((their))~~ the daily bingo records.

NEW SECTION

WAC 230-20-243 Hidden face bingo games. Licensees may play bingo games that allow cards to be sold after numbers or symbols have been selected and called if the numbers or symbols imprinted on the cards can not be determined by any means prior to being opened by the player. The following restrictions apply to games involving hidden face bingo cards:

(1) Cards meeting the requirements of WAC 230-20-192 must be used;

(2) The disposable bingo card receipting method (WAC 230-20-101(4)) must be used to receipt for sales of these cards and all inventory requirements set out in WAC 230-08-105 apply;

(3) To ensure that duplicate cards are not sold during a game, strict compliance with consecutive issuance of cards must be followed and each complete set and/or subset of cards must be sold in its entirety prior to issuance of any cards from a different set and/or subset: *Provided*, That cards from more than one set may be sold during a game if care is taken to ensure that duplicate cards are not sold;

(4) All play must be completed during a single session and only involve cards that are sold during that session;

(5) A new set of numbers or symbols shall be selected and called for each game or set of games if "on-the-way" games are played. Players that have paid to participate in the game must be present when the numbers or symbols are selected;

(6) The licensee must have a separate display board, visible to the players, for displaying numbers called. The numbers must be constantly displayed until the game is completed: *Provided*, That for purposes of this section, alternative displays may be utilized in lieu of a flashboard, as required by WAC 230-20-240, if the numbers are displayed on the electronic flashboard during all number selection periods; and

(7) The requirements of what constitutes a completed game must be documented and clearly posted for player review.

WSR 94-01-034
PERMANENT RULES
GAMBLING COMMISSION
[Filed December 6, 1993, 1:28 p.m.]

Date of Adoption: November 19, 1993.

Purpose: Establish requirements for the regulation of disposable bingo cards.

Citation of Existing Rules Affected by this Order:
Amending WAC 230-08-080 and 230-20-101.

Statutory Authority for Adoption: RCW 9.46.070.

Pursuant to notice filed as WSR 93-20-077 on September 22, 1993.

Changes Other Than Editing from Proposed to Adopted Version: WAC 230-08-080, subsection (1) was changed; WAC 230-08-105, subsection (3)(h)(vii) was changed; and WAC 230-20-101, all of subsections (3), (4)(b), (4)(b)(v), and (5) have been changed.

Effective Date of Rule: Thirty-one days after filing.

December 6, 1993

Sharon M. Tolton

Rules Coordinator

AMENDATORY SECTION (Amending Order 228, filed 10/15/91, effective 11/15/91)

WAC 230-08-080 Daily records—Bingo. In addition to any other requirement set forth in these rules, licensees for the operation of bingo shall be required to prepare a detailed record covering each bingo session as defined in WAC 230-20-170: *Provided*, That operators of bingo games conducted at qualified agricultural fairs and other special locations shall be exempt from this rule, but will be required to keep all operator records by location in order to properly report all information as required by WAC 230-08-250. This detailed daily record shall disclose the following information for each session:

(1) The gross gambling receipts collected for each separate type of sale, of any kind, for bingo games including, but not limited to, regular games, early bird games, blackout games, special games, or pick up games. These gross gambling receipts ~~((are to))~~ shall be supported by ~~((proper))~~ receipting records ~~((as))~~ required by WAC 230-20-101(-) and inventory control records required by WAC 230-08-105. Licensees using the combination receipting method shall reconcile the extended value of disposable card packets and electronically generated cards sold to sales recorded per the cash register;

(2) The amount paid out or accrued for prizes awarded for each bingo game. Each session record shall contain the following minimum information regarding prizes awarded:

(a) The game number;

(b) The dollar amount or the actual cost of each prize;

(c) A complete description of all ~~((non-cash))~~ noncash prizes;

(d) The consecutive number of the prize receipt issued for each prize;

(e) The duplicate copy of the prize receipt issued for all prizes awarded during the session;

(f) The check number of all checks used to pay winners of bingo games: *Provided*, That if the payment must be made by check under the guidelines of WAC 230-20-102 (1)(c), the duplicate copy must be maintained as a part of the session records; and

(g) Full details of prizes accrued.

(3) A statement of the daily net gambling receipts from the licensed activity accruing to the organization, supported by a validated copy of the bank deposit receipt(-);

(4) The cash on hand at the commencement and the conclusion of each session, along with a reconciliation of cash to the daily net gambling receipts for each session. Steps taken to reconcile overages and/or shortages that

exceed (~~(\$10.00)~~) twenty dollars for any session must be documented(~~(-)~~);

(5) An attendance record indicating the number of people participating and the time the attendance count was made(~~(-)~~);

(6) All bingo numbers or symbols selected and called during each game that offers a prize that exceeds (~~(\$200)~~) two hundred dollars. The numbers or symbols shall be recorded in the sequence selected. A computer generated "call sheet" may be used in lieu of a manual record if a print-out of results is made: *Provided*, That the director may approve use of a video recording of the game in lieu of maintaining a "call sheet" if:

(a) Each session is recorded on a separate tape and tapes are labeled to allow identity of a specific session;

(b) The quality of the recording allows an observer to note all details of numbers or symbols selected;

(c) The recording includes the audio portion of the game generated by the caller;

(d) The video recorder has a tape position indicator function and the approximate tape position is recorded for each game for which a prize of greater than (~~(\$200)~~) two hundred dollars is awarded;

(e) The time and date of the game are an integral part of the recording and displayed in conjunction with the events being recorded;

(f) The number of the game is recorded at the start of each game; and

(g) Tapes are maintained for at least six months.

(7) The winning card or face number(s) for each individual prize awarded that exceeds (~~(\$200)~~) two hundred dollars: *Provided*, That if the game is played using disposable bingo cards, the winning card or sheet of cards may be retained in lieu of the card numbers(~~(-)~~);

(8) A copy of the schedule of the games to be played and prizes available for the session: *Provided*, That if the record is annotated with the effective dates of each game schedule, it may be maintained separately and updated only when a change occurs. Any changes to the advertised and printed game and prize schedule, that occur during a session, must be noted in the session records and verified by the signature of the bingo manager supervising the session and another bingo worker on duty during the session(~~(-)~~);

(9) All session records must be reviewed for accuracy and signed immediately following completion by the bingo manager responsible for supervising the session(~~(-)~~); and

(10) All records required by this section shall be:

(a) Recorded in a standard format prescribed by the commission;

(b) Recorded during the course of each session; and

(c) Retained for a period of not less than three years.

NEW SECTION

WAC 230-08-105 Disposable bingo cards—Inventory control record. All disposable bingo cards purchased or otherwise obtained must be controlled and accounted for by the licensee. This control function shall be accomplished by maintaining an inventory control record prepared in a format prescribed by the commission for Class D and above licensees: *Provided*, That alternative formats that accom-

plish regulatory requirements may be approved by commission staff.

(1) All purchase invoices, or a photocopy thereof, for disposable bingo cards received must be maintained on the bingo premises;

(2) Manufacturer packing records, required by WAC 230-20-192, shall be maintained as a part of the inventory control record;

(3) The following information must be recorded for disposable bingo cards, sheets of cards, or collations of packets used for games sold as a package:

(a) The identification and inspection services stamp number;

(b) The serial number or, if packets, the serial number of the top page;

(c) The number of cards or card packets in the series;

(d) The type of card or card packet;

(e) The purchase invoice number;

(f) The purchase invoice date;

(g) Date and session first placed into play; and

(h) Licensees using the combination receipting method, per WAC 230-20-101(5), shall record the following for each session the collation of cards is sold:

(i) The session number and date;

(ii) The beginning and ending audit control numbers of the top page of the packets;

(iii) Adjustments for any missing packets, per the manufacturer's packing record;

(iv) The number of packets distributed to sales points and returned as unsold;

(v) Total packets issued;

(vi) The value of each packet;

(vii) The extended value obtained by multiplying total packets issued times the value of each packet. This total shall be carried forward to the "Daily Bingo Summary" and reconciled to sales per the cash register record; and

(viii) The cumulative number of packets issued from the collation, session-to-date.

AMENDATORY SECTION (Amending Order 218, filed 11/26/90, effective 12/27/90)

WAC 230-20-101 Income from bingo games—Receipting required. All income from bingo games shall be accounted for by the licensee at the time the income is received from each individual player: *Provided*, That Class A (~~(and)~~), B, and C bingo licensees, organizations conducting bingo under the provisions of RCW 9.46.0321, and bingo activities conducted at a qualified agricultural fair are exempt from the requirements of this rule if the requirements of WAC 230-08-015 are followed. Each individual player shall be issued a receipt at the time of payment for the amount paid to participate in each game or set of games. This receipt shall be retained by the player as evidence that the number of cards being played have been properly purchased. The following methods are authorized for use to document receipt of bingo income:

(1) Cash register: A cash register receipt may be used to document receipt of bingo income if:

(a) A consecutively numbered receipt is printed and given to the customer. The following information shall appear upon the receipt:

- (i) The name of the licensee operating the activity;
- (ii) The date;
- (iii) The amount of money paid for the opportunity to play each type of game;
- (iv) The total amount of money paid; and
- (v) The consecutive customer receipt number.

(b) The cash register shall have the ability to assign a consecutive four digit customer receipt number to every sales transaction processed. This numbering system must be of a type that can only be reset by service personnel and does not return to zero at the conclusion of any period of use or power interruption: *Provided*, That a cash register which does not meet the above standard but has adequate alternative control features may be used if written commission approval is received prior to use;

(c) Cash registers used to record receipts for Class D and above licensees shall have the ability to assign a consecutive three-digit number to notate each time transactions are subtalled or when a set of transactions are totalled and closed((-));

(d) The cash register shall have sufficient keys to record separately each type of sale as required by WAC 230-08-080;

(e) The cash register must store and compute a total for each type of sale recorded and must be capable of providing such upon request;

(f) If the cash register is electronic, the memory unit must retain all transactions recorded during a session, regardless of whether or not its power source is interrupted;

(g) All cash register receipts for voids, overrings, returns, "no sales" and any other receipts not issued to a player must be retained with the daily bingo records;

(h) All transactions, customer receipt numbers, and control totals must be recorded on the tape retained in the cash register. The internal tape, showing these transactions, shall be retained with the daily records of the licensee for a period of not less than three years; and

(i) If the cash register is used by the licensee for purposes other than recording the receipts from bingo, the internal cash register tapes from all other uses shall be retained for not less than three years and be available upon request.

(2) Tickets: Tickets may be used for receipting of bingo income received by Class F and below licensees and by any class of licensee conducting bingo games authorized by WAC 230-20-242 if the following conditions are met:

(a) All tickets must be printed by a commercial printer with the following information:

- (i) A consecutive number of at least four digits; and
- (ii) The dollar value or the amount of money represented by each ticket((+)) if used to receipt for income.

(b) Each ticket on a roll shall represent the same specific amount of money;

(c) Tickets shall be issued consecutively from each roll, starting with the lowest numbered ticket;

(d) All tickets purchased or otherwise obtained must be accounted for by the licensee. All tickets purchased or otherwise obtained by the licensee after June 30, 1991, shall be documented on a vendor's invoice. This invoice, or a photo-copy thereof, shall be maintained on the premises and available for inspection. The following information shall be

documented on the purchase invoice for each roll of tickets purchased:

- (i) Name of vendor;
- (ii) Name of purchaser;
- (iii) Date of purchase;
- (iv) Number of rolls of tickets purchased; and
- (v) The color, dollar value, total number of tickets, and beginning ticket number for each roll.

(e) ((A)) An inventory record in a format prescribed by the commission shall be maintained of all tickets on the premises, which are used for income receipting of any type or for conducting bingo games authorized by WAC 230-20-242. All information regarding any tickets received by a licensee shall be entered in the ((log)) inventory record prior to the beginning of the next bingo occasion. The following information must be recorded ((in the ticket log)) for each roll of tickets:

(i) The date each roll of tickets is purchased or obtained by the licensee;

(ii) The purchase invoice number;

(iii) The color;

(iv) The dollar value of the tickets;

(v) The beginning ticket number;

(vi) The total number of tickets on each roll; and

(vii) The individual making the entry into the ((log)) inventory record shall acknowledge the entry by initialing the log at the time of entry.

(f) The licensee shall record the following information for each separate roll of tickets ((used to receipt for sales)) in its daily records:

(i) The color;

(ii) The value of each ticket;

(iii) The lowest numbered ticket issued as a receipt; and

(iv) The highest numbered ticket issued as a receipt((+));

(g) Any ticket, not issued as a receipt during a session, that bears a number falling below the highest numbered ticket issued during that session, shall not be used to receipt for any type of income by the licensee and must be retained by the licensee as a part of its daily records((+)).

(3) Electronically generated bingo cards: Electronically generated bingo cards may be used to document receipting of bingo income ((#)); Provided, That if the sales transaction and issuance of cards to the customer are not completed and documented concurrently, the combination receipting method authorized in subsection (5) of this section must be used. For purposes of this title, "electronically generated bingo cards" means bingo cards or faces whose specific numbers or symbols and the sequence in which the numbers or symbols are arranged on the cards or faces has been predetermined by a licensed manufacturer and stored in electronic computer devices or data bases. If electronically generated bingo cards are used as receipts, the following conditions ((are)) must be met:

(a) All cards ((generated)) must be printed on the premises of the licensed bingo operator, during the occasion in which the cards are intended for use, by means of a printer interfaced with the computer, and meet the requirements of WAC 230-20-240;

(b) If printed prior to the time of sale to a player, cards or sheets of cards must be sold consecutively at each individual sales point, beginning with the lowest card, sheet, or transaction number assigned. Cards or sheets of cards,

which are not issued consecutively during a session, that have an audit number that is lower than the highest audit number issued as a receipt must be retained by the licensee as a part of their daily bingo records for at least one year;

(c) Requirements of WAC 230-20-192 (3) and (12) apply to these cards;

(d) Cards used in player selection games, authorized by WAC 230-20-241, must be printed on two-part, self-duplicating paper and ~~((provide))~~ include an original and a duplicate copy: *Provided*, That a single copy card may be used if all data imprinted on the card is ~~((also))~~ either imprinted on a continuous printed transaction journal retained in the card generating device(;

~~((b))~~ or stored in the computer data base and printed out at the end of each session. The original must be given to the player and the duplicate copy will be retained by the operator as a part of the daily bingo records(~~(-- The duplicate copy may be retained in the form of a continuous printed transaction journal))~~;

~~((e))~~ In addition to the duplicate card required by subsection (a) and (b) above,)) (e) All transactions recorded during a bingo session must be summarized and printed in the form of a permanent record at the end of each session. This record shall provide the following information:

(i) The beginning and ending card number;

(ii) The ~~((ending card))~~ beginning and ending transaction number;

(iii) The total number of cards sold;

(iv) The total number of sales transactions;

(v) The total dollar amount of sales; and

~~((+))~~ (vi) The number and dollar amount of all voids, overrings, or sale returns.

~~((d))~~ (f) All electronically generated cards or sheets of cards must be imprinted with an audit system that includes at least the following information:

(i) Each card must be assigned a card number, as defined by WAC 230-20-192 (2)(b);

(ii) Each sheet of cards must be assigned a consecutive transaction number that does not repeat in less than 999,999 transactions;

~~((+))~~ (iii) The name of the licensee operating the activity;

~~((+))~~ (iv) The time and date of the transaction;

~~((+))~~ (v) The game number;

~~((+))~~ (vi) The amount of money paid for the opportunity to play each game: *Provided*, That if the combination receipting method authorized by subsection (5) of this section is used to receipt for income, the customer receipt number may be substituted for this requirement;

~~((+))~~ (vii) The total amount of money paid; and

~~((+))~~ (viii) The numbers and symbols and the card number assigned by the manufacturer or, if printed for use in "player selection games" authorized by WAC 230-20-241, the bingo numbers selected by the player.

~~((e))~~ (g) An electronic device used to ~~((generate))~~ store bingo cards and interface with a printer for providing such to players must contain the following controls:

(i) A record of all transactions occurring during a session must be retained in memory until the transactions have been totalled, printed, and cleared by the operator, regardless of whether or not the unit's primary power source is interrupted;

(ii) The ability to compute a total of all transactions occurring during the current session and to print out such upon request; ~~((and))~~

(iii) The circuitry and programs that maintain~~((s))~~ and control~~((s))~~ the time and date of sale~~((r))~~ and transaction number, must be secured in a manner that prohibits change or resetting except by the manufacturer or qualified service personnel. A detailed record, supported by service documents shall be retained for each service call involving a change of the time, date, or transaction number; and

(iv) The electronically stored bingo cards must be secured in a manner that prevents an operator or player from modifying them. Cards issued to a player shall not be exchanged, transferred, refunded, or the price modified in any manner after completion of the sales transaction. Cards must be stored on erasable programmable read only memory (EPROM), compact disc read only memory (CDROM), write once read many disc drives (WORM), or other systems approved by the commission.

(4) Disposable (throwaway) bingo cards: Disposable bingo cards may be used to receipt for bingo income if the following ~~((conditions))~~ requirements are met:

(a) ~~((Each disposable card and/or sheet of cards must have a unique series number assigned. For purposes of this rule, unique shall mean a number that does not repeat in less than 100,000 occurrences;~~

~~((b))~~ Each disposable card within a series of cards shall have a number assigned. This number must be unique to the particular permutation and sequence of bingo game numbers assigned to that card;

~~((c))~~ Each different color of cards and variation in border patterns shall constitute a different series;

~~((d))~~ Each disposable card or sheet of cards sold must represent a specific amount of money which has been paid to the licensee and once a price is assigned, each card or sheet of cards must be sold for the same price as each other disposable card or sheet of cards in the same series;)) Cards must meet all requirements of WAC 230-20-192;

(b) The inventory control record required by WAC 230-08-105 must be completed: *Provided*, That the requirements of subsection (2)(h) of this section are not required if disposable cards are used as income receipts;

(c) Cards or sheets of cards intended for playing a single game, including on-the-way games - The following shall be recorded for each set of cards:

(i) Serial number;

(ii) The color and/or border pattern;

(iii) The value of each card or sheet;

(iv) The lowest consecutive card or sheet number issued as a receipt;

(v) The last card or sheet number issued as a receipt;

(vi) Missing cards or sheets per the manufacturer's packing record;

(vii) The number of cards returned and not issued;

(viii) The number of cards issued as receipts; and

(ix) The total gross gambling receipts from all cards issued as receipts.

(d) Packs or packets of cards sold as a package and intended for playing a defined set of games within a session - The following shall be recorded for each set or collation of packs or packets of cards:

(i) The serial number of the top sheet or page of the packet;

(ii) The color and/or border pattern of the top sheet or page of the packet;

(iii) The lowest consecutive card, sheet, or packet number for the first packet issued as a receipt;

(iv) The card, sheet, or packet number of the last or highest packet issued as a receipt;

(v) The number of packets issued as receipts;

(vi) The number of packets returned and not issued;

(vii) Missing packets per the manufacturer's packing record;

(viii) The value of each packet; and

(ix) The total gross receipts from all packets issued as receipts.

(e) Each disposable card, or sheet or packet of cards, from the same ((series)) set or collation shall be consecutively issued at each individual sales point. Each card, or sheet or packet of cards, which were not issued consecutively during a session, and the audit number is lower than the highest audit number issued as a receipt, shall be retained by the licensee for a period of not less than one year: *Provided*, That cards, or sheets or packets of cards, required by this subsection to be retained may be sold at the next bingo session that the specific set of cards is used; and

(f) ((All disposable cards purchased or otherwise obtained must be accounted for by the licensee. All disposable cards purchased or otherwise obtained by the licensee after June 30, 1991 shall be documented on a vendor's invoice. This invoice, or a photo copy thereof, shall be maintained on the premises and available for inspection by commission staff. The following information shall be documented on the purchase invoice:

(i) Name of vendor;

(ii) Name of purchaser;

(iii) Date of purchase;

(iv) Number of series or sets of cards purchased; and

(v) For each series purchased, the series number, the color and/or border pattern, the total number of sheets of cards, the number of cards per sheet, and beginning sheet or card number.

(g) A record in a format prescribed by the commission shall be maintained of all disposable cards purchased or otherwise obtained by the licensee. All information regarding any disposable cards received by the licensee must be recorded in the record prior to the beginning of the next bingo occasion. The following information must be recorded in the disposable card log:

(i) The date each set of disposable cards is purchased or obtained by the licensee;

(ii) The series number;

(iii) The color;

(iv) The number of cards per sheet;

(v) The beginning card or sheet number;

(vi) The number of cards or sheets per set; and

(vii) The individual making the entry into the log shall acknowledge the entry by initialing the log at the time of entry;

(h) The licensee shall record in its daily records the following information for each separate series of disposable cards used to receipt for bingo income:

(i) Series number;

(ii) The color;

(iii) The value of each card or sheet;

(iv) The beginning card or sheet number; and

(v) The ending card or sheet number issued as a receipt.

((i)) Disposable cards issued for each type of sale shall

be recorded separately as required by WAC 230-08-080: *Provided*, That when more than one card or sheet number appears on a sheet of cards issued, then the primary card or sheet numbering system designated by the manufacturer shall be used to determine the beginning number sold and the ending number sold. Each time the numbering of the sheets breaks in the ((series)) set, a separate entry shall be made in the records.

((j) Disposable cards or sheets of cards, which were not issued as receipts during a session, that bear a number below the highest numbered card or sheet issued shall be retained by the licensee as a part of its daily records, along with any leftover cards, or sheets of cards, not issued from the end of a series, and shall not be otherwise used or disposed of by the licensee for a period of not less than three years.)) (5)

Combination receipting system: A combination receipting system utilizing a cash register and disposable or electronically generated bingo cards may be used to receipt for bingo income from package sales. Class G and above licensees shall use this method to receipt for income from disposable bingo card packets and electronically generated bingo cards if sales transactions and issuance of cards are not completed and documented concurrently. When a combination receipting system is used, the following requirements must be met:

(a) All requirements for cash register receipting set out in subsection (1) of this section shall be followed;

(b) If receipting for the sale of disposable bingo card packets:

(i) Each packet of cards, from the same collation shall be consecutively issued at each individual sales point. Each packet of cards, which were not issued consecutively during a session, and the audit number is lower than the highest audit number issued, shall be retained by the licensee for a period of not less than one year: *Provided*, That packets of cards required to be retained by this subsection may be sold during the next bingo session that the specific collation of cards is used; and

(ii) The information required by WAC 230-08-105 must be recorded in the inventory control record.

(c) If receipting for electronically generated bingo cards:

(i) All requirements of subsection (3) of this section must be followed; and

(ii) The totals from the transaction record shall be carried forward to the "daily bingo summary" and reconciled to sales per the cash register record.

WSR 94-01-035
PERMANENT RULES
GAMBLING COMMISSION
 [Filed December 6, 1993, 1:31 p.m.]

Date of Adoption: November 19, 1993.

Purpose: Packet of rules is designed to clarify the commission's policy regarding bona fide charitable or nonprofit organization's responsibilities to conduct gambling

activities in accordance with legislative and commission requirements.

Citation of Existing Rules Affected by this Order: Amending WAC 230-04-024.

Statutory Authority for Adoption: RCW 9.46.070, 9.46.0261, and 9.46.0209.

Pursuant to notice filed as WSR 93-20-009 on September 22, 1993.

Changes Other than Editing from Proposed to Adopted Version: WAC 230-02-183, subsection (8) was added; WAC 230-04-024, subsection (9)(b), (c), (d) the wording has been changed. Subsection (10) has been added. Other than these changes the text is the same as the intent, but has been moved around; and WAC 230-08-255, all of subsection (3) has been changed. Subsection (4)(e) has an added provision.

Effective Date of Rule: Thirty-one days after filing.
December 6, 1993
Sharon M. Tolton
Rules Coordinator

NEW SECTION

WAC 230-02-108 Gambling proceeds defined. For purposes of this title, "gambling proceeds" means:

(1) All moneys remaining from the operation of any gambling activity after payment of prizes and necessary expenses. Expenses are deemed to be necessary when the activity can not be operated without such, or they improve the overall profitability of the activity by increasing gross gambling receipts more than the corresponding increase in expenses; and

(2) All assets obtained with moneys generated from gambling activities. All assets of the organization are presumed to be obtained with gambling proceeds unless the organization maintains complete separation of funds generated from nongambling sources from funds generated from gambling activities.

NEW SECTION

WAC 230-02-183 Active member defined. For purposes of this title, "active member" means an individual who is a "bona fide member," as defined by RCW 9.46.0261, and meets all of the requirements set out below:

(1) Did not join the organization specifically to participate in, or be an operator or manager of, gambling activities;

(2) Is authorized to vote in the election of officers or board members who determine the policies of the organization;

(3) Has been a member for at least twelve months preceding an application for a gambling license, or has been accepted as a member according to guidelines set out in the organization's bylaws and such acceptance recorded in the official minutes of a regular membership meeting: *Provided*, That the minimum time provision does not apply to board members or directors if the organization's membership consists entirely of board members or directors elected or appointed for a limited term;

(4) Complies with the organization's membership criteria, as set out in its bylaws;

(5) Lives within the boundaries of Washington state or, if outside the state boundaries, lives within one hundred miles of the main administrative offices of the organization;

(6) Is at least eighteen years old;

(7) Has, over the last twelve months, participated directly in the activities conducted by the organization. For purposes of this section, the following activities shall be prima facie evidence of direct participation:

(a) Attended at least one regular membership meeting within the previous twelve months; or

(b) Voted in person or, if authorized by the organization's bylaws, by proxy at a meeting at which officers and/or board members were elected within the previous twelve months; or

(c) Has been actively involved in policy setting for the organization by serving as a member of the board of directors or a similar policy setting position; or

(d) Has paid dues imposed by the organization during the last twelve months; or

(e) Has served as a volunteer providing services or raising funds from nongambling sources during the last twelve months; or

(f) Has maintained a level of communications with the organization that would allow them to demonstrate in-depth knowledge regarding the activities of the organization during the previous twelve months. In-depth knowledge would include:

(i) The types of program services provided;

(ii) The scope of program services provided;

(iii) Sources and levels of funding available to the organization; and

(iv) Key plans, including major programs and capital projects.

(8) The citizens of an incorporated town or city, who are registered to vote in the election for the mayor or governing body of such town or city, shall be deemed to be "active members" for purposes of this title and are exempted from all other requirements of this section.

NEW SECTION

WAC 230-02-278 Program services defined. For purposes of this title, "program services" means providing care, support, or assistance to individuals, and/or sponsoring or conducting activities that directly relate to a charitable or nonprofit organization's stated purposes, when such services/activities are:

(1) Directly provided to the public or the organization's members through programs operated by the organization; or

(2) Indirectly provided by:

(a) Making contributions to individuals or to other service-providing organizations for the charitable use of the public or the organization's members;

(b) Funding scholarships; or

(c) Sponsoring activities directly related to any organizational purposes set out in WAC 230-04-024 (1)(b).

AMENDATORY SECTION (Amending Order 190, filed 4/18/89, effective 7/1/89)

~~WAC 230-04-024 ((Certification procedure—Charitable and nonprofit organizations—Qualifications.))
Bona fide charitable or nonprofit organizations—Minimum qualifications—Restrictions—Definitions. ((To qualify for a gambling license, an organization must be a bona fide charitable or nonprofit organization as that term is~~

~~defined in RCW 9.46.0209. A bona fide charitable or nonprofit organization must demonstrate in its initial application and in future annual certification reports, that progress has been made toward meeting its organizational purpose(s) as required by RCW 9.46.0209.)~~ All applicants for certification to conduct gambling activities as charitable or nonprofit organizations must provide conclusive evidence upon initial application and annually thereafter that they are qualified under the requirements of RCW 9.46.0209 and formed and operated for purposes other than to conduct gambling activities. Each applicant shall comply with all of the following requirements and restrictions:

~~(1) ((The following)) An organization must be a bona fide charitable or nonprofit organization((s are authorized)) and have been formed and operated for the following purposes in order to conduct gambling activities:~~

~~(a) Any organization duly existing under the provisions of chapters 24.12, 24.20, or 24.28 RCW((-));~~

~~(b) ((Organizations)) Any organization, whether incorporated or not, which ((are organized)) has been formed and operating exclusively for one or more of the ((following)) purposes(=:~~

- ~~(i) Charitable;~~
- ~~(ii) Benevolent;~~
- ~~(iii) Eleemosynary;~~
- ~~(iv) Educational;~~
- ~~(v) Civic;~~
- ~~(vi) Patriotic;~~
- ~~(vii) Political;~~
- ~~(viii) Social;~~
- ~~(ix) Fraternal;~~
- ~~(x) Athletic; or~~
- ~~(xi) Agricultural.~~

~~(c) Any agricultural fair authorized under the provisions of chapter 15.76 or 36.37 RCW.~~

~~(d)) set out in WAC 230-02-155 and/or 230-02-161;~~

~~(c) Any corporation which has been incorporated under Title 36 U.S.C. and whose principal purposes are to furnish volunteer aid to members of the Armed Forces of the United States and ((also)) to carry on a system of national and international relief ((and to apply the same in mitigating)) to reduce the suffering caused by pestilence, famine, fire, floods, and other national calamities ((and to devise and carry on measures for preventing the same.);~~

~~((e)) (d) An incorporated city or town in the state of Washington((-); or~~

~~((2)) (e) A branch or chapter of a parent organization, ((which)) when such parent organization is itself eligible for licensure((-). A branch or chapter must demonstrate to the satisfaction of the commission that ((the branch or chapter was not established and is not and will not be organized and operated with the evasion of the limitations of state law or commission rule on the operation of gambling activities as one of its purposes. The branch or chapter must be organized and operating for one of the purposes set out in subparagraph (1) above and be otherwise)) it has not been formed and operated for purposes of conducting gambling activities and is in its own right qualified to obtain the license sought. The director may require an affidavit signed by the chief executive officer(s) of the parent organization certifying that the branch or chapter is a bona fide subdivision of the parent organization.~~

~~(((3) Each applicant shall be required to provide in its bylaws or, if incorporated, in its articles of incorporation, a statement of dissolution which requires that all assets of the organization remaining upon dissolution after satisfying its debts be distributed to another bona fide nonprofit or charitable organization which has been granted IRS exemption, unless otherwise exempted from this requirement by the commission.~~

~~(4) An organization demonstrating an excessive accumulation of cash or other assets, not primarily related to its organizational purpose(s), may be deemed as being organized primarily for purposes of gambling and therefore ineligible for licensing pursuant to RCW 9.46.0209. For the purposes of this subsection, the following definitions apply:~~

~~(a) Organizational purpose(s) — one or more of the lawful purposes contained in RCW 9.46.0209 for which an organization is formed and operated;~~

~~(b) Excessive accumulation — amounts over and above the licensee's liabilities due within one year, plus all expenses of the organization for a six month period. This computation shall be based on the most current financial data on file;~~

~~(c) Cash — actual cash, demand deposits, certificates of deposit, money market funds, securities, or other liquid assets;~~

~~(d) Other assets not primarily related to the purpose of the organization — any assets which would not be normally associated with providing charitable or nonprofit services or for providing revenues necessary to conduct such activities.))~~

~~(2) An organization must have been organized and continuously operating for at least twelve months prior to submission of an initial or annual certification application. For purposes of this section, "continuously operating" means that during the immediate twelve months preceding the application, the organization has provided program services which directly relate to its stated purposes or was actively involved in soliciting funds for providing program services from nongambling sources: *Provided*, That if the organization's sole function during the immediate twelve months preceding the application has been fund raising, it may be deemed to have not been "continuously operating" for purposes of this section;~~

~~(3) An organization must have at least fifteen active members as defined by WAC 230-02-183, each with an equal vote in elections of officers or board members who determine the policies of the organization;~~

~~(4) An organization must have demonstrated that they have made significant progress toward meeting its stated purposes during the twelve consecutive month period preceding initial application or annual certification. For purposes of this section, "significant progress" means an organization has complied with requirements set out in its bylaws and/or articles of incorporation and has actively engaged in providing program services to the public or members during the entire period under consideration. Such activities will be deemed significant when an organization utilizes a majority of resources it has available, including gambling proceeds, for providing program services. Any organization requesting certification to operate gambling activities in Group II or Group III, as defined in WAC 230-04-040, shall demonstrate it has made "significant progress" by meeting the requirements of WAC 230-08-255;~~

(5) An organization must ensure that salaries or wages, if paid, are:

(a) Necessary to economically conduct the activities of the organization; and

(b) Reasonable when compared to the local prevailing wage scale for similar positions: *Provided*, That for purposes of this section, "similar position" means a type or classification of position that has a predominance of characteristics, duties, and/or responsibilities that closely approximate those of the position being compared and which the scope of duties and responsibilities are at the same approximate level. Organizations that pay salaries or wages, that are not reasonable when compared to similar positions in the general area of employment, shall be deemed as paying salaries and wages that are directly or indirectly based on gambling receipts received.

(6) An organization must take positive steps to ensure the assets of the organization are protected from misuse, dedicated solely to the purposes of the organization, and do not inure to the benefit of private individuals;

(7) An organization must provide in its bylaws or, if incorporated, in its articles of incorporation, a statement that upon dissolution all assets of the organization remaining after satisfaction of all its debts must be distributed to another bona fide nonprofit or charitable organization qualified under RCW 9.46.0209;

(8) An organization shall not accumulate excessive reserves in the form of cash or other assets, not directly related to its organizational purpose(s). Organizations demonstrating excessive reserves may be deemed as being organized primarily for purposes of gambling. For the purposes of this subsection, the following definitions apply:

(a) Organizational purpose(s) - one or more of the lawful purposes contained in RCW 9.46.0209 for which an organization is formed and operated;

(b) Excessive reserves - an amount that is greater than the sum of the licensee's current liabilities (debts due within one year), plus an amount that is not more than total expenditures for program services during the most recently completed fiscal year, plus an amount that is not more than the average net income from combined gambling activities, including any sales activities conducted in conjunction with the gambling activity, such as a snack bar, for a three-month period. This computation shall be based on the most current financial data on file with the commission as required by WAC 230-08-122(2): *Provided*, That funds reserved with the director's approval, as authorized by WAC 230-08-255(3), will be excluded from the computation of excessive reserves: *Provided further*, That funds transferred to an endowment or specifically restricted trust fund will not be treated as reserves for purposes of this section if the following restrictions are observed:

(i) The endowment or specifically dedicated trust fund is either legally irrevocable or restricted in a manner that approval is required by a majority of the membership prior to use or transfer of the principle or corpus;

(ii) The funds are expressly dedicated for funding new programs, capital projects, or to endow program services;

(iii) The funds are saved according to a plan that includes the amount to be reserved, the purpose for which the funds are being reserved, and the estimated time the reserves will be used;

(iv) The plan is approved by the organization's officers or board of directors and the commission; and

(v) The total amount of gambling proceeds that is transferred to endowments or trust funds, in combination, does not exceed two million dollars: *Provided*, That an organization may petition the director to exceed this limitation. The director may approve the petition as requested, disapprove with written comments, or approve a modified level based on facts presented. The director's decision may be appealed to the commission. Appeal of this decision will be heard at a regular public meeting of the commission under the requirements of WAC 230-50-850. The commission's decision shall be final. Petitions for relief under this section shall include: The reason for the request, including whether the increased reserves are for charitable or nonprofit purposes and planned time-lines for use; the total amount of reserves requested; the impact on programs if the petition is denied; and alternative sources of funding available;

(c) Cash - actual cash, demand deposits, certificates of deposit, money market funds, securities, or other liquid assets;

(d) Other assets not directly related to the purpose of the organization - any nonliquid, long-term investments or assets which would not be normally associated with providing program services or fund raising activities.

(9) An organization must maintain records to support compliance with the above requirements. Such records shall be completed per WAC 230-08-010, and include details necessary to allow reasonable confirmation of compliance by commission staff. At least the following records shall be maintained:

(a) Official minutes of all membership and board meetings including issues discussed, decisions made, and members in attendance;

(b) A listing of the names of all members. Full names, addresses, telephone numbers, and the dates they became a member must be provided for all "active members";

(c) A copy of the most recently approved articles of incorporation and bylaws; and

(d) All correspondence with the Internal Revenue Service and the secretary of state regarding the organization's status as a nonprofit organization.

(10) Incorporated cities or towns, authorized by subsection (1)(d) of this section, are exempted from the requirements of subsections (5), (6), (7), (8), and (9) of this section.

NEW SECTION

WAC 230-08-255 Bona fide charitable or nonprofit organizations—Significant progress—Group II and Group III licensees. Any charitable or nonprofit organization requesting certification to conduct gambling activities in Group II or Group III, as defined by WAC 230-04-040, must demonstrate it has made significant progress toward meeting its stated purpose(s) during the period under review. Compliance with the following requirements shall be prima facie evidence that an organization has made significant progress:

(1) It held elections to select officers at least once in the previous two years;

(2) It held a general membership meeting to conduct the business of the organization at least once in the previous two years;

(3) It expended at least sixty percent of the gambling proceeds earned in its most recently completed fiscal accounting year by either directly providing program services or by purchasing capital assets necessary to provide future program services. For purposes of compliance with this subsection, the following provisions and procedures apply:

(a) An organization will be deemed to have complied with the requirements of this subsection if:

(i) It expends an amount equal to sixty percent or more of gambling proceeds earned during the current fiscal accounting period providing program services; or

(ii) It has a formal plan to spend an amount that is equal to or greater than sixty percent of the gambling proceeds earned in the current period to provide program services in the immediately subsequent fiscal accounting period and the plan is submitted to the commission as a part of its certification application.

(b) An organization may be exempted from this provision for up to three years if:

(i) It is reserving funds to start or expand specific programs;

(ii) It expends at least twenty-five percent of gambling proceeds for providing program services in the current fiscal accounting period;

(iii) It has a formal plan regarding the funds reserved; and

(iv) The director approved the plan.

(c) The amount of gambling proceeds expended to provide program services shall be computed using the following guidelines:

(i) All reductions of the principal and interest expense related to loans used to purchase program service assets shall be treated as program service expenses during the period they are paid;

(ii) Noncash expenses, such as depreciation or amortization shall be subtracted from program service expenses;

(iii) For computation of ratios for compliance with this section, fees paid by members or the public to receive program services or to participate in specific activities shall be classified as a reduction to both program service expenses and income to the organization; and

(iv) The amount of gambling proceeds used to provide program services shall be computed by multiplying adjusted program services expenses by a ratio determined by dividing gambling proceeds for the period by adjusted total income from all sources for the same period.

(4) It does not expend more than thirty-five percent of the total amount spent providing program services for administrative or supporting services or, if more than fifty percent of program services are provided through indirect methods such as contributions, scholarships, and/or sponsorships, then not more than twenty percent of the total amount spent for program services shall be spent for supporting services: *Provided*, That unique, nonrepeating expenses may be factored out of the computation of administrative or supporting services expenditures for compliance with this section: *Provided further*, That expenditures that relate to more than one function shall be allocated to the various functions. Methods of allocation shall be documented and

available for commission staff review. The director may grant an exemption to exceed the above limitation when an organization can demonstrate special circumstances. For purposes of this section, "administrative" or "supporting services" expenses shall include management and general overhead expenses which are essential to providing program services but which are not directly attributable to program services. At least the following expenditures shall be considered administrative or supporting services expenses:

(a) Wages and benefits for general operation of the organization such as executive directors and other management or support personnel (secretarial, reception, bookkeeping, etc.);

(b) Expenses related to providing an administrative office, including rent, depreciation, interest, utilities, taxes, insurance, and supplies;

(c) General management functions of the organization such as planning (budget etc.), recruiting and training staff, and procuring and distributing materials;

(d) Scheduling and conducting board, committee, and membership meetings;

(e) Publicizing the organization: *Provided*, That solicitation of new members or volunteers, or announcements and publications intended to educate the public regarding services provided by the organization, shall be deemed to be program service expenses;

(f) General expenses related to soliciting contributions and other nongambling fund raising activities. Direct expenses related to a specific fund raising activity shall be deducted from the receipts of the activity and will be treated as supporting services expenses only to the extent total expenses exceed receipts for the activity; and

(g) Outside supporting services such as accounting, audit, legal, etc.

NEW SECTION

WAC 230-12-078 Bona fide charitable or nonprofit organizations—Responsibilities—Independent management control structure required. It shall be the affirmative responsibility of each charitable or nonprofit organization licensed to conduct gambling activities, and its officers or board of directors, to ensure the legislative intent regarding gambling activities is met. This responsibility shall be fulfilled by developing and maintaining an independent management control system that ensures: Gambling activities are closely supervised and operated according to commission guidelines; gambling proceeds are used solely to advance the purposes of the organization; all assets of the organization are protected from misuse or defalcation; and an operating environment that facilitates implementation of the officers' or board of directors' policies is maintained. Each charitable or nonprofit organization licensed to conduct gambling activities in Group II or Group III, as defined in WAC 230-04-040, shall fulfill its responsibilities by:

(1) Developing and implementing a management control system which:

(a) Will be overseen by an independent slate of officers or board of directors, that has been elected by a process in which all active members have a single vote;

(b) Includes written policies which set the responsibilities of officers, board of directors, and employees;

(c) Includes written policies establishing the scope of authority delegated to officers, board of directors, and employees;

(d) Includes affirmative management and accounting controls that ensure that all funds and other assets directly or indirectly obtained with gambling proceeds are protected from misuse, dedicated solely to the purposes of the organization, and do not inure to the private use of any person. For purposes of this section, the following uses of gambling proceeds shall not be deemed inurement:

(i) Providing program services to members or the public; or

(ii) Expenditures for necessary expenses, including salaries or wages for services to perform the purposes of the organization. Salaries or wages paid to members, officers, board of directors, or direct family members of any of the preceding, shall not be deemed inurement if they are necessary, reasonable, and the decision to pay such is made in an independent management control environment.

(e) Includes a planning process that sets goals regarding uses of gambling proceeds and allows the officers or board of directors to monitor progress toward meeting such goals: *Provided*, That organizations reserving funds in endowments or trust funds under limitations in WAC 230-04-024 (8)(b) and (c) must have a formal business plan or budget outlining uses of such;

(f) Includes a system of internal accounting controls that is designed to reduce errors, minimize risk of defalcations, and safeguard assets. The organization's officers or board of directors shall implement procedures to monitor established controls for compliance. The internal accounting control system shall include at least the following controls:

(i) Management approval for expenditures;

(ii) Procedures that restrict access to assets to only those individuals authorized by management;

(iii) Procedures to ensure all transactions are recorded in accordance with generally accepted accounting principles. Transactions shall be recorded with enough detail to maintain accountability of assets; and

(iv) Periodic comparison of recorded assets to physical assets and reconciliation of all differences.

(g) Will be documented and available for commission staff review.

(2) Maintaining an independent operating environment. An organization's operating environment will be independent when its officers, board members, and supervisory level employees completely separate their personal interests and the interest of the organization: *Provided*, That an organization shall not be in violation of this section if individual officers or board members acknowledge potential conflicts of interest and abstain from voting on issues that directly or indirectly affect their personal interest. Any potential conflicts of interest situations involving supervisor level employees must be reviewed and approved by the governing board of the organization. All discussions or balloting regarding potential conflicts of interest shall be recorded in the official meeting minutes. Any of the following actions by officers, board members, or supervisory level employees that are not approved by the board of directors and documented in the official minutes shall provide a presumption of the lack of an independent operating environment:

(a) They directly or indirectly receive financial or personal benefit from the organization or share in gambling proceeds of the organization; or

(b) They are directly or indirectly responsible for supervision of, or have decision-making authority over transactions that may result in direct or indirect financial or personal benefit to: Their direct relatives, including spouses, parents, children, siblings, and similar relationships, whether by blood, adoption, or marriage; persons with whom they maintain a common household; or persons with whom they have a business relationship; or

(c) They directly or, through lack of action, indirectly allow others to receive or share in the gambling proceeds of the organization.

WSR 94-01-036

PERMANENT RULES

GAMBLING COMMISSION

[Filed December 6, 1993, 1:33 p.m.]

Date of Adoption: November 19, 1993.

Purpose: Packet of rules is designed to simplify the approval process for new commercial amusement games and variations of games.

Citation of Existing Rules Affected by this Order: Repealing WAC 230-20-605; and amending WAC 230-20-615, 230-20-630, and 230-20-700.

Statutory Authority for Adoption: RCW 9.46.070.

Pursuant to notice filed as WSR 93-20-008 on September 22, 1993.

Changes Other than Editing from Proposed to Adopted Version: WAC 230-20-508, subsection (5) the last sentence was removed and replaced by a provision; and WAC 230-20-615, the first paragraph, subsection (1) and the last paragraph had changes.

Effective Date of Rule: Thirty-one days after filing.

December 6, 1993

Sharon M. Tolton

Rules Coordinator

NEW SECTION

WAC 230-02-511 Attended amusement game defined. Any amusement game conducted in a manner which requires the presence or assistance of any natural person, as an attendant, in the regular operation of such game, shall be considered an attended amusement game. Regular operation shall include, but not be limited to: The collection of a valuable consideration from the player(s), providing equipment or components to the player(s) such as to allow participation in the game, and the delivery of merchandise prizes to any player who successfully achieves the state goal of the game. Regular operation shall not include any material assistance in the play of the game or any participation in the game by the attendant. Any such game shall be conducted in accordance with all other rules of the gambling commission and provisions of chapter 9.46 RCW.

NEW SECTION

WAC 230-02-514 Coin or token activated amusement games defined. Any amusement game consisting of a mechanical, electronic, or electro-mechanical machine or device which allows the player to activate the game by means of inserting one or more coins or tokens, and which dispenses a merchandise prize - or coupons, tickets or tokens which are redeemable for a merchandise prize - upon successfully achieving the stated goal of the game, shall be considered a coin or token activated amusement game. Any such game shall be conducted in accordance with all other rules of the gambling commission and provisions of chapter 9.46 RCW.

NEW SECTION

WAC 230-20-508 Authorized amusement games—Types, standards and classifications. The commission hereby authorizes the following amusement games, whether coin operated or not, to be operated by persons possessing a commercial amusement game license, or bona fide charitable or nonprofit organizations possessing a license issued by the gambling commission or when conducted as authorized by RCW 9.46.0321 at an authorized location.

(1) In all amusement games, a merchandise prize must be awarded to the player, if the player is successful at achieving the objective of the game, with one cost of play.

(2) All amusement games operated within the state of Washington must meet the standards of at least one of the following classifications:

(a) Group I - Ball Toss/Kick Games: The player throws or kicks a ball or balls in order to achieve a specified goal. Upon achieving the goal of the game, the player is awarded a prize.

(i) All balls for each game must be uniform in size and weight.

(ii) All targets for each game must be of the same weight and size or the operator must color code the target and advise the player of the difference in targets if the difference is not visible to the player.

(iii) No target may have a loose or floating weight.

(iv) The weight of any target will not exceed seven and one-half pounds.

(v) When the goal is to estimate the speed of the ball thrown or kicked, a minimum of three balls will be used to estimate the speed by the player and one ball for the actual throw or kick.

(vi) When ping pong or similar light weight balls are utilized in games requiring the ball to be tossed into a dish, saucer, cup or similar container, water must be placed in the bottom of each such container.

(b) Group II - Dart Games: The player throws one or more darts into a target or target area. Upon successfully achieving a predetermined score, pattern, penetrating and/or breaking a target, or just sticking in the target, the player is awarded a prize.

(i) All darts must be uniform in size and in original condition with the point sharp or functional suction-cup darts and all feathers or tail sections intact.

(ii) The targets and target area for all dart games must be of a material capable of being penetrated and retaining a metal tip dart; or holding a suction-cup dart.

(iii) The target area will be in the rear of the stand and will be at least three feet but not more than fifteen feet from a foul line.

(iv) In "add em up games," when the player must achieve a predetermined score, all darts stuck on the lines will receive another throw. The player has the right to add up the score of the darts thrown.

(c) Group III - Hoop or Ring Toss Games: The player must toss one or more hoops or rings over one or more targets which may consist of bottles, pegs, blocks, prizes, or any item capable of having a ring or hoop tossed over it.

(i) The operator must specifically advise the player as to the degree that the hoop(s) or ring(s) must go over the target.

(ii) All hoops or rings for each game must be uniform in size and shape and must be capable of going over the target.

(iii) All targets used at an individual stand must be the same size or the operator must disclose to the player by posting signs or using color codes to denote the different sizes.

(d) Group IV - Coin/Token Toss Games: The player or players toss one or more coins or tokens onto a surface or into a target or target area. The game must have a clear and unobstructed thirty-six inch vertical airspace above the target, target area, or surface. The target, target area, or surface must be level. Any game which has a target or target area of four square inches or less must award a prize if any part of the coin or token is within the target or target area.

(e) Group V - Eye/Hand Coordination Games: The player or players perform a task or tasks which requires the player to use the coordination between their hand(s) and eye(s) to successfully complete the task or tasks. The task or tasks may include one or a combination of the following:

(i) Striking a moving or fixed object or target to include a sequence of moving or fixed objects or targets;

(ii) Causing object(s) to be launched at target(s) from a device. The objects are aimed so they may land in, on, or through a target(s) to include catching or having the object(s) caught in the target(s);

(iii) Dropping object(s) onto target(s) or target area(s) or surface(s), to include covering the target(s), target area(s), or surface(s) with the object(s);

(iv) Capturing, lassoing, hooking, or getting a hold of an object(s) and causing them to move or change position;

(v) Guiding object(s) or images through a pattern, maze, or task;

(vi) Climbing on, over, through, or around object(s); or

(vii) Similar tasks.

(A) If a player is required to cover a spot or specific target area, then the target or target area must be a circular spot.

(I) The player must receive at least five circular discs to drop on the target or target area.

(II) The diameter of the circular discs used to cover the target or target area must be at least sixty-four percent of the diameter of the target spot or area.

(III) The target spot or area must be permanently affixed to a solid surface.

(B) A regulation billiard table, balls, and cue must be used for any game requiring a player to perform any task or tasks normally associated with playing billiards or pool.

(C) In games where objects are launched, tossed, or catapulted at target(s), the launching device shall respond in an identical manner on repetitive uses when an equal amount of force is applied or selected by the player.

(f) Group VI - Strength Test Games: The player(s) tests their own strength in performing a task or tasks for a predetermined number of times or length of time. This may include hand, arm, or whole body strength and may also require the player to use a tool or instrument to strike an object or target, which may cause the object to be propelled or travel a specific distance. The task(s) may require the object(s) to strike another object(s) to achieve the objective.

(g) Group VII - Crane Games: The player, using one or more of a variety of control methods, maneuvers a crane or claw device into a position to attempt to retrieve a prize. All games must meet the following conditions:

(i) At least twenty seconds playing time per operation.

(ii) Crane or claw must be capable of reaching, picking up, and dispensing all prizes contained within the machine.

(iii) The controls for the machine must be clearly labelled as to their function.

(iv) Prizes must be loose and shall not be packed, arranged, lodged, or intertwined in the machine in any way which would prevent the prize from being picked up by the crane or claw and dispensed.

(h) Group VIII - Penny Fall Games: Penny fall games are electronic or electro-mechanical games in which:

(i) The player inserts a coin or token into a chute;

(ii) The player controls the direction the coin or token falls by aiming the chute;

(iii) The coin or token will land on a flat surface or surfaces which have a sweeper(s) and/or a pusher arm moving across the surface or surfaces;

(iv) The surfaces shall be level and contain similar coins or tokens;

(v) A carefully aimed coin or token will cause coins or tokens on the flat surface(s) to be pushed or swept into holes or chutes dispensing the tokens or awarding a set number of tickets to the player;

(vi) The game may contain additional factors which if properly negotiated or struck by a coin or token, will award additional tickets to the player;

(vii) The additional factor may be in the form of targets that when lit, grant the player bonus tickets when the coin or token passes over the target;

(viii) Any such additional targets or bonus opportunities must be activated prior to the player inserting the coin or token to start play and must remain activated for a period of time sufficient to allow the player to attempt to strike or negotiate the targets or bonus opportunities;

(ix) The skill of the player must be the determining factor in the outcome of the game; and

(x) Merchandise prizes may be placed on the coins, tokens, or other surfaces in the game and if the prize is pushed into a hole or chute then it is awarded to the player. All such prizes must fit into or down the hole or chute in the game which awards prizes to the player.

(i) Group IX - Ball Roll Down Games: The player rolls one or more balls to a target or target area. Upon achieving the objective of the game, the player is awarded a prize.

(i) Ball roll down games may be either one player attempting to score a predetermined number of points by

landing in a target or target area, or striking and/or knocking down a target or targets.

(ii) Ball roll down games may be more than one player attempting to score a predetermined number of points, striking and/or knocking down a target(s), or landing in a target area. The first player to accomplish the goal is awarded a prize.

(j) Group X - Shooting Games: A game in which the player or players use a device to fire a projectile or projectiles to hit a target or targets. The projectiles may include pellets, BB's, corks, water, electronic beams, light beams, balls, or suction-cup darts. The targets may be stationary or mobile. The player or players may be required to:

(i) Completely shoot out or obliterate a target or portion thereof;

(ii) Hit a target or specific portion thereof; or

(iii) Hold an electronic beam, light beam, or water stream on a target or portion thereof to achieve a specific result.

(A) All safety requirements of the local city or county ordinances must be observed by the operator and player(s).

(B) A short range shooting gallery must give a player at least four shots to shoot out a target which has a diameter of one-quarter inch or less, or at least one shot per target which must be struck. Targets must be at least one-half inch square and may include a bullseye section which the player must shoot out without touching the outside of the target.

(C) Shoot-out-the-star games must give the player at least one hundred projectiles in an automatic type device to shoot out a star which is no more than one and one-quarter inch from point to point.

(D) Games may award a prize based upon the number of players participating and use a combined score to determine the winner.

(E) If suction-cup darts are used in the game, a player must receive another turn if the dart does not stick to the target area.

(F) If targets must be knocked over or off of a shelf, then the bases of the targets must be uniform front and rear.

(G) If a player is required to destroy or obliterate all or part of a target, then the player must have the right to visually inspect the target at the conclusion of the game.

(k) Group XI - Cake Walks and Fish Pond Games: Cake walks and fish ponds, as commonly known, are amusement games. Cake walks involve a number of players walking on a numbered or color-coded circle while music is played. When the music stops, the player's prize is determined by the number or color of the portion of the circle they are standing on. Fish ponds are games where players receive a prize every time they compete, by either hooking or capturing a fish or similar object floating in a pool of water with a number or symbol on the bottom of the fish or object which corresponds to a prize or the operator may place a prize directly onto the "line" or catching device of the player from behind a curtain or similar obstruction.

(3) All classifications of amusement games must be operated as either an attended amusement game as defined by WAC 230-02-511 or as a coin or token activated amusement game as defined by WAC 230-02-514.

(4) No amusement game shall award additional plays as a prize.

(5) Operators may introduce new games that meet the standards of the applicable classification without prior approval of the commission: *Provided*, That an operator must provide to the commission at least sixty days prior to such introduction a description of the game, the rules of play, and a justification for the classification selected: *Provided, further*, That upon notification by the director that the proposed game does not meet the selected classification, or otherwise violates a provision of law or commission rule, the game may not be introduced, or if already introduced, must be removed from play until its operation is brought into compliance with such law or rules. New games not falling within the classifications of this rule may be approved by the director for a twelve-month test period pending submission of a petition to amend the rule.

NEW SECTION

WAC 230-20-509 Amusement games—Classification to be assigned by operator. Licensed operators of amusement games shall evaluate each game being operated under their control and determine the group type, specified by WAC 230-20-508, of each game. Operators shall prepare a list of all such games which they plan to operate during each license year and submit this list to the commission. Such list shall contain the following information:

- (1) The name under which the game is being played; and
- (2) The group type of each game.

AMENDATORY SECTION (Amending Order 175, filed 3/15/88)

WAC 230-20-615 Amusement games—Material degree of skill required—Standards. ~~((1) Notwithstanding that a material degree of chance exists in any amusement game;))~~ No amusement game shall be conducted within the state of Washington unless the outcome of said game depends to a material degree upon the skill of the contestant. ~~((The director shall determine if a material degree of skill is present and shall submit a report to the commission for final approval of any game;))~~ The standard to be applied shall be the following:

~~((a))~~ (1) Do contestants' physical and or mental abilities play an important and integral role in determining the outcome of the game; ~~((or is the outcome based upon chance alone;))~~ and

~~((b))~~ (2) Would the success rate of the average contestant(s) improve with repeated play or practice.

If ~~((the outcome is not based upon chance alone and))~~ both ~~((a) and (b))~~ subsections (1) and (2) of this section are present, a material degree of skill in the outcome of a game shall be deemed to be present.

AMENDATORY SECTION (Amending Order 227, filed 9/18/91, effective 10/19/91)

WAC 230-20-630 Amusement games—Fees, rules, prizes and variations in objects to be posted—Fees to be paid in cash or script—Prizes not to differ from those posted. (1) No person shall conduct any amusement game at any location within the state of Washington unless there is posted in a conspicuous place, readily visible to persons

playing the game, a sign(s) made of permanent material, such as wood, poster board, metal or plastic with lettering at least one and one-half inches in height that contains the following information:

- (a) Fees charged for playing;
- (b) The rules by which the game is to be played;
- (c) Prizes to be won;
- (d) Any variation in the size or weight of objects utilized in the game which is not readily visible to the player; ~~((and))~~

(e) The name of the operator and an assigned concession number; and

(f) The group number of the game being conducted.

(2) Licensed amusement game operators shall assign each concession a number and a list of all concessions and their assigned numbers shall be kept available in the ~~((show))~~ concession office.

(3) No amusement games shall be conducted wherein the price charged for playing said game is paid other than in cash, or in an amount other than that posted upon the premises of said game. The term "cash" as used herein shall include checks. In addition, the operator may accept as consideration, tokens, script or tickets, but only under the following conditions:

(a) The value of each token, ticket or item of script, as measured by the equivalent amount of cash which a player would have to present in lieu of said token, ticket or script, must be indicated on the face thereof;

(b) Said tokens, tickets or script are not redeemable for cash;

(c) Said tickets or script shall bear the name of the operator or sponsor.

(4) No amusement games shall be conducted within the state of Washington wherein the prize to be given to a prospective winner is other than that posted upon the premises of said game: *Provided, however*, That after an individual player has won two or more prizes, an operator may offer said player the opportunity to exchange said prizes for one or more other prizes, but only if the prize to be received by the player in exchange was on display during the play of the game. Any prize system which requires forfeiture of previously won prize(s) in exchange for another play is prohibited. Operators of amusement games may utilize a scheme for distribution of prizes wherein the winners of individual prizes receive tickets, which are subsequently redeemable in combination with other tickets won for a merchandise prize.

AMENDATORY SECTION (Amending Order 228, filed 10/15/91, effective 11/15/91)

WAC 230-20-700 Coin or token activated amusement games—Standards. All coin or token activated amusement games operated at locations authorized under WAC 230-04-138 (1)(f), (g), (i), (j), (k), or (l) must have ~~((nonresettable))~~ nonresettable coin-in meters, the removal or disconnection of which stops the play of the machine. The meter must be certified as accurate to within plus or minus 1 coin or token in 1,000 plays.

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 230-20-605 Types of amusement games authorized.

WSR 94-01-038
PERMANENT RULES
WASHINGTON STATE EMPLOYEE
COMBINED FUND DRIVE COMMITTEE

[Filed December 6, 1993, 3:19 p.m.]

Date of Adoption: December 3, 1993.

Purpose: To allow public and private charities that deliver services or assistance that conserve, protect, or restore the environment, into the combined fund drive.

Citation of Existing Rules Affected by this Order: Amending WAC 240-10-030.

Statutory Authority for Adoption: WAC 240-10-010(7).

Other Authority: Executive Order 84-13.

Pursuant to notice filed as WSR 93-20-097 on October 5, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 3, 1993

Steven M. Goff

Chair

AMENDATORY SECTION (Amending Order 87-1, filed 8/20/87)

WAC 240-10-030 Definitions. (1) Committee - The Washington state employee combined fund drive committee described in WAC 240-10-010.

(2) State employee combined fund drive campaign - An arrangement by which the committee provides one or more other participating organizations with the opportunity to receive funds contributed to them in the annual campaign, based on their compliance with the regulations herein.

(3) Participating organization - A health and welfare agency whose application has been accepted by the committee.

(4) Annual campaign - The once-a-year period of organized solicitation of state employees conducted annually to obtain voluntary contributions from state employees for charitable commitments to be allocated during the ensuing year of contributions.

(5) Year of contributions - The annual calendar year for collection of the voluntary payroll deductions for charitable contributions authorized by state employees pursuant to these regulations. The normal, full annual calendar year shall begin with January and end with the ensuing December.

(6) Health and welfare agency - The terms "voluntary agency," "voluntary health and welfare agency," "voluntary charitable agency," and "voluntary charitable health and welfare agency" mean an organization that is organized and operated for the purpose of rendering, or of materially or financially supporting the rendering of, one or more of the following services (~~directly to, and~~) for the (~~direct~~) benefit of(;) human beings:

(a) Delivery of health care to ill or infirm individuals;

(b) Education and training of personnel for the delivery of health care to ill or infirm individuals;

(c) Health research for the benefit of ill or infirm individuals;

(d) Delivery of education, training, and care to physical-ly and mentally handicapped individuals;

(e) Treatment, care, rehabilitation, and counseling of juvenile delinquents, criminals, released convicts, persons who abuse drugs or alcohol, persons who are victims of intra-family violence or abuse, persons who are otherwise in need of social adjustment and rehabilitation, and the families of such persons;

(f) Relief of victims of crime, war, casualty, famine, natural disasters, and other catastrophes and emergencies;

(g) Neighborhood and community-wide social services that directly assist needy, poor, and indigent individuals, including provision of emergency relief and shelter, recreation, transportation, the preparation and delivery of meals, educational opportunities, and job training;

(h) Protection of families that, on account of economic or other need, poverty, indigence, or emergency, are in long-term or short-term need of family, child-care, and maternity services, child and marriage counseling, foster care, and guidance or assistance in the management and maintenance of the home and household;

(i) Relief of needy, poor, and indigent infants and children, and of orphans, including the provision of adoption services;

(j) Relief of needy, poor, and indigent adults and of the elderly;

(k) Delivery of services or assistance that conserve, protect, or restore the environment.

(7) Local presence - Demonstration of direct and substantial presence in the local campaign community:

(a) The availability of services, such as examinations, treatments, inoculations, preventive care, counseling, training, scholarship assistance, transportation, feeding, institutional-ization, shelter, and clothing to persons working or residing in the local campaign community.

(b) The presence within the local campaign community, or within reasonable commuting distance thereof, of a facility at which services may be obtained, such as an office, clinic, mobile unit, field agency, or direct provider, or specific demonstrable effects of research, such as personnel or facilities engaged therein or specific local applications thereof.

(c) The availability to persons working or residing in the local campaign community of communication with the voluntary charitable agency by means of home visits, transportation, or telephone calls, provided by the voluntary agency at no charge to the recipient or beneficiary of the service.

(8) Overseas - Areas outside of the District of Columbia and the fifty states of the United States.

WSR 94-01-058
PERMANENT RULES
DEPARTMENT OF HEALTH
 [Filed December 8, 1993, 11:00 a.m.]

Date of Adoption: December 3, 1993.

Purpose: To allow boarding homes to provide nursing services for temporarily acute illness of residents.

Citation of Existing Rules Affected by this Order:
Amending WAC 246-316-240 and 246-316-260.

Statutory Authority for Adoption: RCW 18.20.090.

Pursuant to notice filed as WSR 93-19-060 on September 13, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 3, 1993

Bruce Miyahara

Secretary

AMENDATORY SECTION (Amending Order 224, filed 12/23/91, effective 1/23/92)

WAC 246-316-240 Admission, placement and retention of residents. (1) Prior to admission or acceptance as a resident, boarding homes shall obtain sufficient information to evaluate whether or not a resident/applicant can be safely housed and provided domiciliary care in the particular facility, including information in reference to:

(a) Resident/applicant's ability to function with respect to the physical premises, equipment, and staff of the boarding home;

(b) Space, equipment, and furniture requirements;

(c) Ambulatory status;

(d) Currently demonstrated overt behavior dangerous to self or others;

(e) Need for care in a hospital, nursing home, or other licensed facility under chapters 18.51, 70.41, and 71.12 RCW;

(f) Requirements for assistance in obtaining or administering medications; and

(g) Need or desire for nursing care exceeding that provided by the boarding home in accordance with WAC 246-316-260 (1) and (2)(a), periodic visits by staff of a home health care agency or a licensed nurse employed by an individual resident.

(2) Boarding homes shall accept, admit, and retain persons as residents only when:

(a) Ambulatory unless the boarding home is approved by the Washington state director of fire protection to:

(i) Care for semi-ambulatory residents; or

(ii) Care for nonambulatory residents not needing medical or nursing care as specified in subsection (2)(f)(ii) and (iii) of this section.

(b) Nonsmoking residents can be accommodated with smoke-free rooms and smoke-free common-use areas to prevent contact with smoke;

(c) Smoking residents can be accommodated by areas meeting the requirements in WAC 246-316-140(2);

(d) The individual resident can be accommodated by:

(i) Physical plant, facilities, and spaces;

(ii) Furniture and equipment; and

(iii) Staff who are available and sufficient to provide nature of domiciliary care required and desired by the resident.

(e) The amount and nature of needed assistance with medication or medication service is available in the boarding home under RCW 18.20.160 and WAC 246-316-300; and

(f) Individuals do not:

(i) Exhibit continuing overt behavior which is a danger to others or self;

(ii) Need inpatient care in a hospital, nursing home, or other facility licensed under chapters 18.51, 70.12, or 70.41 RCW; or

(iii) Need ~~((continuous))~~ nursing care exceeding that required for periodic temporary acute illness provided by: ~~((periodic or short-term services from))~~:

(A) The boarding home nursing staff; or

(B) Staff of a home health care agency; or

~~((B))~~ (C) A licensed nurse retained by an individual resident.

(3) Upon admission or acceptance of an individual as a resident, boarding homes shall determine a resident's choice regarding:

(a) Definite arrangements with a health care practitioner; and

(b) Who to call in case of resident illness or death.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-316-260 Boarding home resident services.

(1) Boarding homes may provide nursing care for residents only to the extent and duration required for temporary acute illness.

(2) Boarding homes shall:

(a) Assure nursing care, if provided, is consistent with Chapters 18.78 and 18.88 RCW;

(b) Observe and note changes in physical, mental, and emotional functioning; and

~~((B))~~ (c) Assist with arrangements for appropriate transfer as needed.

~~((2))~~ (3) Boarding homes shall provide basic domiciliary care, including, but not limited to:

(a) Assisting each resident to maintain his or her highest functional ability possible and compatible with individual safety and welfare;

(b) Providing general health supervision if required by resident including:

(i) Encouraging resident to self-administer medically prescribed drugs and treatment;

(ii) Encouraging resident to follow any medically prescribed modified diet, rest or activity regimen;

(iii) Encouraging and assisting a resident with arrangements to keep appointments for health care services, e.g., physicians, dentists, home health care services, or clinics;

(iv) Encouraging and assisting resident with arrangements to see his or her health care practitioner when the resident shows signs or describes symptoms of an illness or abnormality for which medical diagnosis and treatment may be indicated; and

(v) Encouraging, supervising, or assisting resident with:

(A) Personal hygienic care, dressing, grooming, and other activities;

(B) Functional aids or equipment, such as glasses, hearing aids, canes, crutches, walker, or wheelchair;

(C) Clothing and other personal effects;

(D) Personal living quarters in a manner conducive to safety and comfort.

(c) Encouraging, guiding, or assisting residents with arrangements to participate in social, recreational, diversional, vocational, church, or other activities within the boarding home and the community in accordance with his or her interests, tolerance, and abilities.

~~((3))~~ (4) Boarding homes shall post a calendar of daily social or recreational activities and events for residents.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

WSR 94-01-060

PERMANENT RULES

DEPARTMENT OF ECOLOGY

[Order 92-33—Filed December 8, 1993, 12:43 p.m.]

Date of Adoption: December 6, 1993.

Purpose: To adopt federal rules and state-initiated amendments.

Citation of Existing Rules Affected by this Order: Amending chapter 173-303 WAC.

Statutory Authority for Adoption: Chapters 70.105 and 70.105D RCW.

Pursuant to notice filed as WSR 93-22-103 on November 3, 1993.

Changes Other than Editing from Proposed to Adopted Version:

PERMANENT

1. WAC 173-303-040 Commercial Fertilizer

"Commercial fertilizer" means any substance containing one or more recognized plant nutrients and which is used for its plant nutrient content and/or which is designated for use or claimed to have value in promoting plant growth, and shall include, but not be limited to, limes, gypsum, and manipulated animal manures and vegetable compost. The commercial fertilizer must be registered with the state or local agency regulating the fertilizer in the locale in which the fertilizer is being sold ~~and~~/or applied.

2. WAC 173-303-040 Mixed Waste

"Mixed waste" means a dangerous, extremely hazardous, or acutely hazardous waste that contains both a nonradioactive hazardous component and, as defined by 10 CFR 20.3, source, special nuclear, or by-product material subject to the Atomic Energy Act of 1954 (42 U.S.C. 2011 et seq).

3. WAC 173-303-040 Polycyclic Aromatic Hydrocarbons (PAHs)

"Polycyclic aromatic hydrocarbons" (PAH) means those hydrocarbon molecules composed of two or more benzene rings. For the purposes of this chapter, the PAH of concern for designation are only those PAH with more than three rings and less than seven fused benzene rings.

4. WAC 173-303-070 Designation of Dangerous Waste

(3) Designation procedures.

(c) For the purpose of determining if a solid waste is a dangerous waste as identified in sections WAC 173-303-080 through WAC 173-303-100, a person shall either:

(i) Test the waste according to the methods, or an approved equivalent method, set forth in section WAC 173-303-110; or

(ii) Apply knowledge of the waste in light of the materials or the process used, when:

(A) Such knowledge can be demonstrated to be sufficient for ~~proper designation~~ determining whether or not it designated and/or designated properly; and

(B) All data and records supporting this determination in accordance with WAC 173-303-210(3) are retained on-site.

(4) Testing required. Notwithstanding any other provisions of this chapter, the

department may require any person to test a waste according to the methods, or an approved equivalent method, set forth in section WAC 173-303-110 to determine whether or not the waste is designated under the dangerous waste lists, characteristics or criteria, WAC 173-303-080 through WAC 173-303-100. S such testing may be required if the department has reason to believe that the waste would be designated DW or EHW by the dangerous waste lists, characteristics or criteria, or if the department has reason to believe that the waste is designated improperly (e.g., the waste has been designated DW but should actually be designated EHW). If a person, pursuant to the requirements of this subsection, determines that the waste is a dangerous waste or that its designation must be changed, then he shall be subject to the applicable requirements of this chapter 173-303 WAC. The department shall base a requirement to test a waste on evidence that includes, but is not limited to:

- (a) Test information indicating that the person's waste may be DW or EHW;
- (b) Evidence that the person's waste is very similar to another persons' already designated DW or EHW;
- (c) Evidence that the persons' waste has historically been a DW or EHW; or
- (d) Evidence or information about a person's manufacturing materials or processes which indicate that ~~his~~ the wastes may be DW or EHW; or
- (e) Evidence that the knowledge or test results a person has regarding a waste is not sufficient for ~~proper designation.~~ determining whether or not it designated and /or designated properly.

5. WAC 173-303-071(3)(a) Domestic Sewage Exclusion

(i) Domestic sewage; and

(ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly owned treatment works (POTW) for treatment provided; ~~that the owner/operator has obtained a pretreatment permit, state waste discharge permit, or a written discharge authorization from the local sewage utility prior to discharge.~~

(A) The generator or owner/operator has obtained a state waste discharge permit issued by the department, a temporary permit obtained pursuant to RCW 90.48.200, or pretreatment permit (or written discharge authorization) from a local sewage utility delegated pretreatment program responsibilities pursuant to RCW 90.48.165;

(B) The waste discharge is specifically authorized in a state waste discharge permit, pretreatment permit or written discharge authorization, or in the case of a temporary permit the waste is accurately described in the permit application;

(C) The waste discharge is not prohibited under 40 CFR Part 403.5; and,

(D) The waste prior to mixing with domestic sewage shall not exhibit dangerous waste characteristics for ignitability, corrosivity, reactivity, or toxicity as defined in WAC 173-303-090, and shall not meet the dangerous waste criteria for

toxic dangerous waste, persistent dangerous waste, or for carcinogenic dangerous waste under WAC 173-303-100, unless the waste is treatable in the publicly owned treatment works (POTW) where it will be received. This exclusion does not apply to the generation, treatment, storage, recycling, or other management of dangerous wastes prior to discharge into the sanitary sewage system.

WAC 173-303-070(8)(b)(ii)(F)

A publicly owned treatment works provided that the small quantity generator ~~has obtained either a pretreatment permit, state waste discharge permit or a written discharge authorization from the local sewage utility prior to discharging any wastes~~ complies with the provisions of the Domestic Sewage Exclusion found in WAC 173-303-071(3)(a); and

6. WAC 173-303-802(5)(a)(i)

Has an NPDES permit, state waste discharge permit, pretreatment permit (or written discharge authorization from the local sewerage authority) issued by the department, or pretreatment permit (or written discharge authorization) from a local sewage utility delegated pretreatment program responsibilities pursuant to RCW 90.48.165, and the permit or authorization covers the waste stream and constituents being discharged and;

7. WAC 173-303-071(3)(g)(i)&(ii) Treated wood waste exclusion

Treated wood waste and wood products including:

(i) arsenical-treated wood that fails the test for the toxicity characteristic of WAC 173-303-090(8) (dangerous waste numbers D004 through D017 only), or which fails any state criteria, if the waste is generated by persons who utilize the arsenical-treated wood for the materials' intended end use.

(ii) wood treated with other preservatives provided such treated wood is, within 180 days after becoming waste;

(A) disposed of at a landfill that is permitted and operated in accordance with WAC 173-304-460, Minimum Functional Standards for Solid Waste Handling and or Chapter 173-351 WAC, Criteria for Municipal Solid Waste Landfills, and provided that such wood is neither a listed waste under WAC 173-303-9903 and -9904 nor a TCLP waste under WAC 173-303-090(8); or

(B) sent to a facility that will legitimately treat or recycle the treated wood waste, and manage any residue in accordance with that state's dangerous waste regulations; or

(C) sent off-site to a permitted TSD facility or placed in an on-site facility which is permitted by the department under WAC 173-303-800 through WAC 173-303-845.

In addition, creosote-treated wood is excluded when burned for energy recovery in an industrial furnace or boiler ~~which has a valid air permit~~ that has an order of

approval issued pursuant to RCW 70.94.152 by Ecology or a local air pollution control authority to burn creosote treated wood.

8. WAC 173-303-100 Dangerous waste criteria.

(4) Quantity exclusion limit. A solid waste is a dangerous waste if it meets one or more of the dangerous waste criteria described in subsections (5), (6), and (7) of this section. If a person's solid waste meets one or more of these criteria then he shall be a dangerous waste generator (and may not be considered a small quantity generator as provided in WAC 173-303-070(8)) if the quantity of the waste exceeds the following quantity exclusion limits:

(b) For all other wastes designating under this section the quantity exclusion limit is 220 lbs. (100 kg) per month or per batch.

(5) Toxicity criteria. Except as provided in sections WAC 173-303-070(4) or (5), a person shall determine if a solid waste meets the toxicity criteria under this section by following either the instructions for book designation, when his knowledge of the waste is sufficient, or by testing the waste using the Biological Testing Methods adopted under WAC 173-303-110(3).

(b) Book designation procedure. A person may determine if a waste meets the toxicity criteria by following the book designation instructions as follows.

(i) A person shall determine the toxic category for each known constituent. The toxic category for each constituent may be determined from available data, or by obtaining data from the NIOSH RTECS and checking this data against the toxic category table, below. If data is available for more than one of the four toxicity criteria (aquatic, oral, inhalation, or dermal), then the data of indicating severest toxicity shall be used, and the most acutely toxic category shall be assigned to the constituent. If the NIOSH RTECS or other data sources do not agree on the same category, then the category arrived at using the NIOSH RTECS will be used to determine the toxic category. If toxicity data for a constituent cannot be found in the NIOSH RTECS, or other source reasonably available to a person, then the toxic category need not be determined for that constituent.

(iii) A person whose waste contains toxic constituents shall determine its designation from the toxic dangerous waste graph in WAC 173-303-9906 by finding the equivalent concentration percentage for the waste along the abscissa, finding the total waste quantity along the ordinate, and plotting the point on the graph where the horizontal line drawn from the total waste quantity intersects the vertical line drawn from the waste's equivalent concentration. If the plotted point is in the area marked DW, the person shall designate the waste as DW, and shall assign the dangerous waste number of WT02; if the plotted point is in the area marked EHW, the person shall designate the waste as EHW, and shall assign the dangerous waste number of WT01. ~~For borderline wastes, in which the plotted point falls near the diagonal line dividing DW and EHW, the designation may be~~

determined using the following method: For equivalent concentrations (%) greater than 0.01, if the product of the equivalent concentration (%) multiplied by the total monthly or batch quantity (Lbs) is greater than 100, then the waste is designated as EHW.

9. WAC 173-303-100(7) Carcinogenic Criteria

~~(7) Carcinogenic criteria.~~

~~(a) Criteria. A substance which is listed in the carcinogenic dangerous waste list, WAC 173-303-9908, shall be a carcinogenic substance for the purposes of this section.~~

~~(b) Except as provided in section WAC 173-303-070(4) and (5), if a person knows only some of the carcinogenic constituents in the waste, or only some of the constituent concentrations, and if the waste is undesignated for those known constituents or concentrations, then the waste is not designated for carcinogens under this subsection.~~

~~(c) Designation. A solid waste which contains one or more carcinogen(s) at concentrations equal to or greater than the concentration level indicated in the carcinogenic dangerous waste list, WAC 173-303-9908, shall be designated DW, and shall be assigned the dangerous waste number of WC02.~~

(7) Carcinogenic Criteria

(a) Criteria. For the purposes of this section, a carcinogenic substance shall be a substance which has sufficient or limited evidence as a human or animal carcinogen as listed in both:

(i) The National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS) as an International Agency for Research on Cancer (IARC) carcinogen; and

(ii) The Integrated Risk Information System (IRIS) or Health Effects Assessment Summary Table (HEAST).

(iii) A list of carcinogenic substances is available from the department. Any IARC identified substance that is an inorganic, respiratory carcinogen shall be a carcinogenic substance only if it occurs in a friable format (i.e., if it is in a waste which easily crumbles and forms dust which can be inhaled). Any IARC human or animal, sufficient or limited carcinogen that is so rated because of studies involving implantation of the substance into test animals as the sole cause for the carcinogenic IARC rating, shall not be a carcinogenic substance. This additional information is available in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans.

(b) Except as provided in section WAC 173-303-070(4) and (5), if a person knows only some of the carcinogenic substances in the waste, or only some of the substance concentrations, and if the waste is undesignated for those known substances or concentrations, then the waste is not designated for carcinogens under this subsection.

(c) Designation. A solid waste that contains one or more carcinogenic substances shall be designated DW and assigned the waste number of WC02 if either,

(i) The concentration of any one carcinogenic substance exceeds 0.01% of the waste quantity; or

(ii) The total concentration summed for all carcinogenic substances exceeds 1.0% of the waste quantity.

WAC 173-303-100(2)

References. The National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS), 1985-86 Edition, Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; Health Effects Assessment Summary Table, 1993, #PB 93-921199 and Integrated Risk Information System, 1993, #PB 915-913-31, National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161; and IARC Monographs, Oxford University Press, 2001 Evans Road, Cary, N.C. 27513 are is adopted by reference.

WAC 173-303-040

"Carcinogenic" means a material listed in the carcinogenic dangerous waste list, WAC 173-303-9908, known to contain a substance which has sufficient or limited evidence as a human or animal carcinogen as listed in both IARC and either IRIS or HEAST.

WAC 173-303-071(3)(m)

Asbestos wastes or asbestos containing wastes which would be designated only as respiratory carcinogens by WAC 173-303-084 or 173-303-103, and any other inorganic wastes which are designated only under WAC 173-303-084 or 173-303-103 because they are respiratory carcinogens, if these wastes are managed in compliance with or in a manner equivalent to the asbestos management procedures of 40 CFR Part 61;

WAC 173-303-104

GENERIC DANGEROUS WASTE NUMBERS TABLE

Dangerous

Waste#

Dangerous Waste Criteria and Designation

Carcinogenic Dangerous Wastes

WC01-----EHW

WC02-----DW

PERMANENT

~~WAC 173-303-9908~~~~Carcinogenic Dangerous Waste List¹~~

| Chemical Name | Chemical Abstract Number | Concentration Levels (ppm) |
|----------------------|--------------------------|----------------------------|
| acephate | 30560-19-1 | 15,100.0 |
| acrylamide | 79-06-1 | 29.2 |
| acrylonitrile | 107-13-1 | 243.0 |
| alachlor | 15972-60-8 | 1,620.0 |
| aldrin | 309-00-2 | 7.72 |
| aniline | 62-53-3 | 23,000.0 |
| aramite | 140-57-8 | 5,250.0 |
| arsenic | 7440-38-2 | 188.0 |
| atrazine | 1912-24-9 | 597.0 |
| azobenzene | 103-33-3 | 1,190.0 |
| benzene | 71-43-2 | 4,530.0 |
| benzidine | 92-87-5 | .571 |
| benzo[a]anthracene | 56-55-3 | 18.0 |
| benzo[a]pyrene | 50-32-8 | 18.0 |
| benzo[b]fluoranthene | 205-99-2 | 18.0 |
| benzo[k]fluoranthene | 207-08-9 | 18.0 |
| benzotrichloride | 98-07-7 | 10.1 |
| benzyl chloride | 100-44-7 | 772.0 |
| beryllium | 7440-41-7 | 30.5 |

¹The concentration levels in this table are calculations from the Washington State Department of Ecology's Model Toxics Control Act (MTCA) Method C Industrial Soil Formula using the oral slope factor database with EPA's Integrated Risk Information System (IRIS) and Health Effects Assessment Summary Table (HEAST).

| | Chemical Abstract Number | Concentration Levels (ppm) |
|---|--------------------------------|-------------------------------|
| bis(2-chloro-1-methyl-ethyl)ether | 108-60-1 | 1,870.0 |
| bis(2-chloroethyl)ether | 111-44-4 | 119.0 |
| bis(2-ethylhexyl)-phthalate | 117-81-7 | 9,370.0 |
| bis(chloromethyl)ether | 542-88-1 | .597 |
| bromodichloromethane | 75-27-4 | 2,120.0 |
| bromoform | 75-25-2 | 16,600.0 |
| captafol | 2425-06-1 | 15,300.0 |
| captan | 133-06-2 | 37,500.0 |
| carbazole | 86-74-8 | 6,560.0 |
| carbon tetrachloride | 56-23-5 | 1,010.0 |
| ehloranil | 118-75-2 | 326.0 |
| ehlordane | 57-74-9 | 101.0 |
| ehloro-2-2-methylaniline hydrochloride;4- | 3165-93-3 | 285.0 |
| ehloro-2-methylaniline;4- | 95-69-2 | 226.0 |
| ehlorodibromoethane | 124-48-1 | 1,560.0 |
| ehloroform | 67-66-3 | 21,500.0 |
| ehloromethane | 74-87-3 | 10,100.0 |
| ehloronitrobenzene;o- | 88-73-3 | 5,250.0 |
| ehloronitrobenzene;p- | 100-00-5 | 7,290.0 |
| ehlorothalonil | 1897-45-6 | 11,900.0 |
| ehrysene | 218-01-9 | 18.0 |
| eretonaldehyde | 123-73-9 | 69.1 |
| ddd | 72-54-8 | 547.0 |
| dde | 72-55-9 | 386.0 |
| ddt | 50-29-3 | 386.0 |

PERMANENT

| | Chemical Abstract Number | Concentration Levels (ppm) |
|------------------------------------|--------------------------------|-------------------------------|
| di(2-ethylhexyl)adipate | 103-23-1 | 109,000.0 |
| diallate | 2303-16-4 | 2,150.0 |
| dibenzo[a,h]anthracene | 53-70-3 | 18.0 |
| dibromo-3-chloropropane;1,2- | 96-12-8 | 5.97 |
| dibromoethane;1,2- | 106-93-4 | 1.54 |
| dichlorobenzene;1,4- | 106-46-7 | 5,470.0 |
| dichlorobenzidine;3,3'- | 91-94-1 | 292.0 |
| dichloroethane;1,1- | 75-34-3 | 1,440.0 |
| dichloroethane;1,2- | 107-06-2 | 1,440.0 |
| dichloroethylene;1,1- | 75-35-4 | 219.0 |
| dichloropropane;1,2- | 78-87-5 | 1,930.0 |
| dichloropropene;1,3- | 542-75-6 | 729.0 |
| dieldrin | 60-57-1 | 8.2 |
| dimethoxybenzidine;3,3'- | 119-90-4 | 9,370.0 |
| dimethylaniline hydrochloride;2,4- | 21436-96-4 | 226.0 |
| dimethylaniline;2,4- | 95-68-1 | 175.0 |
| dimethylaniline;N,N- | 121-69-7 | 2,850.0 |
| dimethylbenzidine;3,3'- | 119-93-7 | 14.3 |
| dimethylhydrazine;1,1- | 57-14-7 | 15.1 |
| dimethylhydrazine;1,2- | 540-73-8 | .0938 |
| dinitrotoluene;2,4- | 121-14-2 | 193.0 |
| dinitrotoluene;2,6- | 606-20-2 | 193.0 |
| dioxane;1,4- | 123-91-1 | 11,900.0 |
| diphenylhydrazine;1,2- | 122-66-7 | 164.0 |
| direct black-38 | 1937-37-7 | 15.1 |

PERMANENT

| Chemical Name | Chemical Abstract Number | Concentration Levels (ppm) |
|---------------------------------|--------------------------|----------------------------|
| direct blue 6 | 2602-46-2 | 15.1 |
| direct brown 95 | 16071-86-6 | 14.1 |
| epichlorohydrin | 106-89-8 | 13,300.0 |
| ethyl acrylate | 140-88-5 | 2,730.0 |
| ethylene thiourea | 96-45-7 | 3,650.0 |
| folpet | 133-07-3 | 37,500.0 |
| formaldehyde | 50-00-0 | 4,380.0 |
| furazolidone | 67-45-8 | 34.5 |
| furium | 531-82-8 | 2.63 |
| heptachlor | 76-44-8 | 29.2 |
| heptachlor epoxide | 1024-57-3 | 14.4 |
| hexachloro p-dioxin, mixture | 19408-74-3 | .0212 |
| hexachlorobenzene | 118-74-1 | 82.0 |
| hexachlorobutadiene | 87-68-3 | 1,680.0 |
| hexachlorocyclohexane;alpha | 319-84-6 | 20.8 |
| hexachlorocyclohexane;beta- | 319-85-7 | 72.9 |
| hexachlorocyclohexane;technical | 608-73-1 | 72.9 |
| hexachloroethane | 67-72-1 | 9,370.0 |
| hydrazine sulfate | 302-01-2 | 43.8 |
| isophorone | 78-59-1 | 138,000.0 |
| lindane | 58-89-9 | 101.0 |
| methoxy 5-nitroaniline;2- | 99-59-2 | 2,850.0 |
| methyl 5-nitroaniline;2- | 99-55-8 | 3,980.0 |
| methylaniline hydrochloride;2- | 636-21-5 | 729.0 |
| methylaniline;2- | 95-53-4 | 547.0 |

PERMANENT

| Chemical Name | Chemical Abstract Number | Concentration Levels (ppm) |
|--|--------------------------|----------------------------|
| methylene-bis(2-chloroaniline);4,4' | 101-14-4 | 1,010.0 |
| methylene-chloride | 75-09-2 | 17,500.0 |
| methylhydrazine | 60-34-4 | 119.0 |
| mirex | 2385-85-5 | 72.9 |
| nitrofurazone | 59-87-0 | 87.5 |
| nitropropane;2- | 79-46-9 | 14.0 |
| nitroso-N-methylethylamine;N- | 10595-95-6 | 5.97 |
| nitroso-di-n-butylamine;N- | 924-16-3 | 24.3 |
| nitroso-di-n-propylamine;N- | 621-64-7 | 18.8 |
| nitrosodiethanolamine;N- | 1116-54-7 | 46.9 |
| nitrosodiethylamine;N- | 55-18-5 | .875 |
| nitrosodimethylamine;N- | 62-75-9 | 2.57 |
| nitrosodiphenylamine;N- | 86-30-6 | 26,800.0 |
| nitrosopyrrolidine;N- | 930-55-2 | 62.5 |
| pah | unavailable | 18.0 |
| pentabromo-6-chloro-cyclohexane;1,2,3,4,5- | 87-84-3 | 5,710.0 |
| pentachloronitrobenzene | 82-68-8 | 505 |
| pentachlorophenol | 87-86-5 | 1,090.0 |
| perthane | 72-56-0 | 398,000.0 |
| phenylenediamine;o- | 95-54-5 | 2,790.0 |
| phenylphenol;2- | 90-43-7 | 69,100.0 |
| polybrominated-biphenyls | 59536-65-1 | 14.7 |
| polychlorinated-biphenyls | 1336-36-3 | 17.0 |
| propylene-oxide | 75-56-9 | 547.0 |
| quinoline | 91-22-5 | 10.9 |

| Chemical Name | Chemical Abstract Number | Concentration Levels (ppm) |
|---------------------------------------|--------------------------|----------------------------|
| rdx | 121-82-4 | 1,190.0 |
| simazine | 122-34-9 | 1,090.0 |
| sodium-diethyldithiocarbamate | 148-18-5 | 486.0 |
| styrene | 100-42-5 | 4,380.0 |
| tedd;2,3,7,8- | 1746-01-6 | 87,500.0 |
| tetrachloroethane;1,1,1,2- | 630-20-6 | 5,050.0 |
| tetrachloroethane;1,1,2,2- | 79-34-5 | 656.0 |
| tetrachloroethylene | 127-18-4 | 2,570.0 |
| tetrachlorotoluene;p,a,a,a- | 5216-25-1 | 6.56 |
| tetrachlorvinphos | 961-11-5 | 5,470.0 |
| tnt | 118-96-7 | 4,380.0 |
| toluenediamine;2,4- | 95-80-7 | 41.0 |
| toluidine;o- | 95-53-4dup | 547.0 |
| toluidine;p- | 106-49-0 | 691.0 |
| toxaphene | 8001-35-2 | 119.0 |
| trichloroaniline hydrochloride;2,4,6- | 33663-50-2 | 4,530.0 |
| trichloroaniline;2,4,6- | 634-93-5 | 3,860.0 |
| trichloroethane;1,1,2- | 79-00-5 | 2,300.0 |
| trichloroethylene | 79-01-6 | 11,900.0 |
| trichlorophenol;2,4,6- | 88-06-2 | 11,900.0 |
| trifluralin | 1582-09-8 | 17,000.0 |
| trimethyl-phosphate | 512-56-1 | 3,550.0 |
| vinyl-chloride | 75-01-4 | 69.1 |

PERMANENT

10. WAC 173-303-110(3)(c) Sampling and Testing Methods

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846 (~~Second Edition, 1982 as amended by Update I (April 1984), and Update II (April 1985)~~ Third Edition, 1993 as amended by Update I (August, 1993)) is adopted by reference.

11. WAC 173-303-140(2) Land Disposal Restrictions**140(2) Applicability.**

The land disposal restrictions of this section apply to any person who owns or operates a ~~land dangerous waste treatment, storage or disposal facility in Washington state and to any generator affected by these restrictions and prohibitions.~~ any person who generates or transports dangerous waste.

(a) Land disposal restrictions for wastes designated in accordance with WAC 173-303-070(3)(a)(i),(ii) and (iii) shall be the restrictions set forth by the Environmental Protection Agency in 40 CFR Part 268, which are incorporated by reference into this regulation. ~~—The federal land disposal restriction shall not apply to state only wastes. Land disposal restrictions for state only waste or for waste that is both federal and state, such as toxicity characteristic waste that designates as EHW, shall be the restrictions set forth in subsections (3) through (7) of this section. and the restrictions set forth in subsections (3) through (7) of this section. The exemption and exception provisions of subsections (3) through (7) are not applicable to the federal land disposal restrictions.~~

(b) Land disposal restrictions for state-only dangerous waste shall be the restrictions set forth in subsections (3) through (7) of this section.

140(4)

~~(f) Disposal of dioxin containing wastes. These wastes are regulated by federal regulations contained in 40 CFR Part 268 that restrict the land disposal of dioxin containing wastes.~~

~~(g) Disposal of solvent wastes. These wastes are regulated by federal regulations contained in 40 CFR Part 268 that restrict the land disposal of solvent wastes.~~

140(5)(a)(i)

~~(i) Liquid waste, extremely hazardous waste (EHW), solid acid waste, leachable inorganic waste, and organic/carbonaceous waste may be placed in surface impoundments for purposes of treatment provided the owner/operator can demonstrate that effective treatment of the dangerous waste constituents will occur and at closure the owner/operator complies with the prohibitions and restrictions of subsection (4) of this section.~~

~~(ii) Ignitable waste and reactive waste may be placed in surface impoundments provided that:~~

~~(A) The conditions in (a)(i) of this subsection are complied with; and
(B) The ignitable or reactive waste is treated, rendered, or mixed before or immediately after placement in the impoundment so that the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090, and 173-303-395(1) is complied with.~~

140(5)(b)(i)

(i) ~~Leachable inorganic waste, liquid waste, extremely hazardous waste (EHW), solid acid waste, and organic/carbonaceous waste may be placed in waste piles for purposes of treatment provided the owner/operator can demonstrate that effective treatment of the dangerous waste constituents will occur and at closure the owner/operator complies with the prohibitions and restrictions of subsection (4) of this section.~~

~~(ii) Ignitable waste and reactive waste may be placed in a waste pile provided that:~~

~~(A) The conditions in (b)(i) of this subsection are complied with; and~~

~~(B) The placement of the ignitable or reactive waste onto an existing waste pile results in the mixture no longer meeting the definition of ignitable or reactive waste under WAC 173-303-090, and complies with 173-303-395(1).~~

140(5)(c)(i)

(i) Liquid waste, extremely hazardous waste (EHW), and organic/carbonaceous waste ~~and leachable inorganic waste~~, may be land treated provided that the owner/operator can demonstrate that effective treatment of the dangerous waste constituents will occur, and at the end of the post-closure care period the owner/operator will be in compliance with subsection (4) of this section.

~~(ii) Ignitable waste and reactive waste may be land treated provided that:~~

~~(A) The conditions in (c)(i) of this subsection are complied with; and~~

~~(B) The ignitable or reactive waste is immediately incorporated into the soil so that the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090, and complies with 173-303-395(1).~~

140(6)

(6) Case-by-case exemptions to a land disposal prohibition. Any person may petition the department for an exemption from a prohibition in subsection (4) of this section for the land disposal of a dangerous waste. The procedures to submit a petition to the department are specified in WAC 173-303-910(6). The department may deny any petition if it determines that there is a potential for dangerous waste constituents to migrate for the land disposal facility where the waste is to be placed. The department will deny any petition when exemption would result in a substantial or imminent threat to public health or the environment. The department will deny any petition when exemption would result in a violation of applicable state laws.

The department may grant an exemption from the prohibitions and restrictions of subsection (4) of this section based on the demonstrations specified in (a), (b); or (c) ~~, or (d)~~ of this subsection.

12. WAC 173-303-180(f) Manifest

For shipments of federally regulated hazardous waste to a designated facility in an authorized State which has not yet obtained authorization to regulate that particular waste as hazardous, the generator must assure that the designated facility agrees to sign and return the manifest to the generator, and that any out-of-state transporter signs and forwards the manifest to the designated facility.

13. WAC 173-303-200 Accumulating Dangerous Waste on-site.

(2) Satellite Accumulation

(a) A generator may accumulate as much as fifty-five gallons of dangerous waste or one quart of acutely hazardous waste per waste stream in containers at or near any point of generation where waste initially accumulates (defined as a satellite accumulation area in WAC 173-303-040). The satellite area must be under the control of the operator of the process generating the waste or secured at all times to prevent improper ~~disposal~~ additions of wastes ~~into the~~ to a satellite containers. Satellite accumulation is allowed without a permit provided the generator:

- (i) Complies with WAC 173-303-630(2), (4), (5)(a) and (b), (8)(a), and (9)(a) and (b); and
- (ii) Complies with WAC 173-303-200(1)(d).

(b) When fifty-five gallons of dangerous waste or one quart of acutely hazardous waste is accumulated per waste stream, the container(s) must be marked immediately with the accumulation date and moved within ~~seventy-two hours~~ three days to a designated storage or accumulation area.

(c) On a case-by-case basis the department may require the satellite area to be managed in accordance with all or some of the requirements under subsection 1 of this section, if the nature of the wastes being accumulated, a history of spills or releases from accumulated containers, or other factors are determined by the department to be a threat or potential threat to human health or the environment.

(3) For the purposes of this section, the 90 day accumulation period; begins on the date that:

- (a) ~~Waste is first placed into a container located in a 90 day accumulation or storage area~~ The generator first generates a dangerous waste; or
- (b) The quantity (or aggregated quantity) of dangerous waste being accumulated by a small quantity generator first exceeds the quantity exclusion limit for such waste (or wastes); or
- (c) Fifty-five gallons of dangerous waste or one quart of acutely hazardous waste, per waste stream, is accumulated in ~~the~~ a satellite accumulation area.

WAC 173-303-040 Satellite Accumulation Area

"Satellite accumulation area" means a location at or near any point of generation where hazardous waste is initially accumulated in containers (during routine operations) prior to consolidation at a designated 90 day accumulation or storage area. The area must be under the control of the operator of the process generating the waste or secured at all times to prevent the ~~unauthorized disposal~~ improper additions of wastes into the satellite containers.

**14. WAC 173-303-220 (1)(a) Generator Reporting and
WAC 173-303-390 Facility reporting**

220 (1) (a) A generator or any person who has obtained an EPA/state identification number pursuant to WAC 173-303-060 shall submit an annual report to the department, on the Generator Annual Dangerous Waste Report - Form 4 according to the instructions on the form (copies are available from the department), no later than March 1 for the preceding calendar year; ~~and~~

~~220 (1) (b) A report must be submitted to include a description of the efforts undertaken during the year to reduce the volume and toxicity of waste generated and a description of the changes in volume and toxicity of waste actually achieved during the year in comparison to previous years to the extent such information is available for years prior to 1984.~~

220 (1) (be) In addition, any generator who stores, treats, or disposes of dangerous waste on-site shall comply with the annual reporting requirements of WAC 173-303-390, Facility reporting.

390 (2) Annual reports. The owner or operator of a facility that holds an active EPA/state identification number shall prepare and submit a single copy of an annual report to the department by March 1 of each year. The report form and instructions in the TSD Facility Annual Dangerous Waste Report - Form 5 (which may be obtained from the department) must be used for this report. In addition, any facility which ships dangerous waste off-site must comply with the annual reporting requirements of WAC 173-303-220. The annual report must cover facility activities during the previous calendar year and must include, but is not limited to the following information:

~~390 (2) (g) For generators who treat, store, or dispose of hazardous waste on-site, a description of the efforts undertaken during the year to reduce the volume and toxicity of waste generated.~~

~~390 (2) (h) For generators who treat, store, or dispose of hazardous waste on-site, a description of the changes in volume and toxicity of waste actually~~

~~achieved during the year in comparison to previous years to the extent such information is available for the years prior to 1984.~~

390 (2) (g) ~~(i)~~ The certification signed in accordance with the requirements of WAC 173-303-810(12).

15. WAC 173-303-330(2) Personnel training

(c) Records documenting that the facility personnel have received and completed the training required by this section. ~~For training completed after December 31, 1993, the training records must be signed and dated by the employee receiving the training. The department may require, on a case-by-case basis, that training records include employee initials or signature to verify that training was received.~~

16. WAC 173-303-370 (4)(a) Manifest system

Manifest discrepancies ~~are include~~ significant discrepancies between the quantity or type of dangerous waste designated on the manifest or shipping paper and the quantity or type of dangerous waste a facility actually receives. Significant discrepancies in quantity are variations greater than ten percent in weight for bulk quantities (e.g., tanker trucks, railroad tank cars, etc.), or any variations in piece count for nonbulk quantities (i.e., any missing container or package would be a significant discrepancy). Significant discrepancies in type are obvious physical or chemical differences which can be discovered by inspection or waste analysis (e.g., waste solvent substituted for waste acid). ~~Other significant discrepancies include: incorrect generator, transporter, or designated facility EPA/state ID numbers; incomplete listing of EPA and state waste codes pursuant to WAC 173-303-070; failure to include a twenty four hour emergency response number.~~

17. WAC 173-303-510(4)(b) Special requirements for dangerous wastes burned for energy recovery

(4)(b)(ii)

~~(ii) Notice. Obtain a one time written and signed certification from the burner that the burner has notified as described under subsection (3) of this subsection.~~

(ii) Notification. Comply with the notification requirements under WAC 173-303-060 for dangerous waste fuel activities. Generators who have previously notified the department of their dangerous waste management activities and obtained an EPA/state identification number, must renotify to identify their dangerous waste fuel activities.

(4)(b)(iv)

(iv) Storage. For generators who have interim or final status and exceed the accumulation time frames referenced in (b)(iii) of this subsection, comply with the

applicable storage provisions of:

- (A) WAC 173-303-280 through 173-303-395; and
- (B) ~~WAC 173-303-400 for interim status facilities or WAC 173-303-800 through 173-303-840 for final status facilities.~~ WAC 173-303-800 through 173-303-840; and
- (C) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities;

(4)(b)(v)

~~(v) Recordkeeping. Keep a copy of each certification notice received or sent for at least five years from the last date the generator markets to the burner.~~

(v) Required notice. Obtain, prior to initiating the first shipment of dangerous waste fuel, a one time written and signed certification notice from the burner certifying that:

- (A) The burner has notified as described under subsection (3) of this subsection; and
- (B) The burner will burn the dangerous waste fuel only in an industrial furnace or boiler identified in subsection (3)(b) of this subsection.

New subsection (4)(b)(vi)

(vi) Recordkeeping. Keep a copy of each certification notice received for at least five years from the date of the last dangerous waste fuel shipment to the burner who sent such notice.

(6)(b)

(b) Notification. Notification requirements under WAC 173-303-060 for dangerous waste fuel activities. ~~A Distributor who has~~ Distributors who have previously notified the department of ~~his~~ their dangerous waste management activities and obtained an EPA/state identification number, must renotify to identify ~~the~~ their dangerous waste fuel activities.

(6)(c)

~~(c) Off site shipment. The standards for generators in WAC 173-303-170 through 173-303-230 when a marketer initiates a shipment of dangerous waste fuel;~~

Storage. Distributors who store dangerous waste fuels must comply with: ~~(i) T~~ the applicable storage provisions of:

- ~~(A)(i) WAC 173-303-280 through 173-303-395; and~~
- ~~(B) WAC 173-303-400 for interim status facilities or WAC 173-303-800 through 173-303-840 for final status facilities~~
- (ii) WAC 173-303-800 through 173-303-840; and
- (iii) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities;
- ~~(ii) (iv) The standards for generators in...~~

(6)(d)

~~(d) Storage. Distributors who store must comply with:~~

- ~~(i) The applicable storage provisions of:~~
~~(A) WAC 173-303-280 through 173-303-395; and~~
~~(B) WAC 173-303-400 for interim status facilities or WAC 173-303-800 through 173-303-840 for final status facilities; and~~
~~(ii) The standards for generators in WAC 173-303-170 through 173-303-230 when they initiate a shipment of dangerous waste fuel;~~ Off-site shipment. A distributor must meet the standards for generators in WAC 173-303-170 through 173-303-230 when the distributor initiates a shipment of dangerous waste fuel. Except that a distributor may not accumulate dangerous waste fuels under the accumulation provisions of WAC 173-303-200 or WAC 173-303-201;

(6)(e)(i)

(i) Before a marketer initiates initiating the first shipment of dangerous waste fuel to a another distributor, a blender, or a burner, a distributor must obtain a one-time written and signed certification notice from the distributor, blender, or burner certifying that:

(6)(e)(ii)

(ii) Before accepting the first shipment of dangerous waste fuel from another distributor, ~~generator~~, or blender, the distributor must provide the other distributor, ~~the generator~~, or the blender with a one-time written and signed certification that the distributor has complied with the notification requirements described in subsection (3) of this ~~subsection~~ section; and

Two paragraphs were marked (e) in subsection (6). The second is replaced with:
~~(e) (f) Recordkeeping. A distributor must keep a copy of each certification notice received or sent for at least five years from the last date the distributor last engaged in a dangerous waste fuel marketing transaction with the person who sent or received the certification notice.~~

(7)(b)

~~(b) Notification. Blenders are required to obtain a one-time written and signed certification from the burner, the distributor, or another blender that the person has notified as described in subsection (3) of this section.~~
Notification. Notification requirements under WAC 173-303-060 for dangerous waste fuel activities. Blenders who have previously notified the department of their dangerous waste management activities and obtained an EPA/state identification number, must renotify to identify their dangerous waste fuel activities.

(7)(c)

~~(c) Storage Facility. For tanks or, containers, or other units used to hold dangerous waste prior to blending or processing, for blending or processing tanks or, containers or other units, and for tanks or, containers or other units used to~~

hold blended or processed fuel, blenders must comply with the applicable storage provisions of:

~~(A) (i) WAC 173-303-280 through 173-303-395;~~

~~(B) WAC 173-303-400 for interim status facilities or WAC 173-303-800 through 173-303-840.~~

(ii) WAC 173-303-800 through 173-303-840; and

(iii) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities;

(7)(d)

~~(d) Off-site shipment. Blenders must comply with the standards for generators in Wac 173-303-170 through 173-303-230 when they initiate a shipment of dangerous waste fuel; and~~

(d) Off-site shipment. The standards for generators in WAC 173-303-170 through 173-303-230 when a blender initiates a shipment of dangerous waste fuel. Except that a blender may not accumulate dangerous waste fuels under the accumulation provisions of WAC 173-303-200 or WAC 173-303-201;

(7)(e)

~~(e) Recordkeeping. A blender must keep a copy of each certification notice received or sent for at least five years from the date he last engaged in a dangerous waste fuel marketing transaction with the person who sent or received the certification notice.~~

(e) Required notices.

(i) Before initiating the first shipment of dangerous waste fuel to another blender, a distributor, or a burner, a blender must obtain a one-time written and signed certification notice from the blender, distributor, or burner certifying that:

(A) The burner, distributor, or blender has notified as described under subsection (3) of this section; and

(B) If the recipient is a burner, the burner will burn the dangerous waste fuel only in an industrial furnace or boiler identified in subsection (3)(b) of this section.

(ii) Before accepting the first shipment of dangerous waste fuel from another blender or distributor, the blender must provide the other blender or distributor with a one-time written and signed certification that the blender has complied with the notification requirements described in subsection (3) of this section; and

New paragraph (7)(f)

(f) Recordkeeping. A blender must keep a copy of each certification notice received or sent for at least five years from the date the blender last engaged in a dangerous waste fuel marketing transaction with the person who sent or received the certification notice.

(8)(a)

(a) Prohibitions. The prohibitions under subsection (3) ~~(b)~~ of this section;

(8)(c)(ii)

(ii) For all burners who store dangerous waste fuel, the applicable storage provisions of:

(A) WAC 173-303-280 through 173-303-395; and

(B) ~~WAC 173-303-400 including Subparts F through L of 40 CFR Part 265 for interim status facilities or WAC 173-303-800 through 173-303-840 for final status facilities.)~~ WAC 173-303-800 through 173-303-840; and

(C) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities;

18. WAC 173-303-610(2)(b)(i) and (ii) Closure and postclosure

2(b)(i) For soils, groundwater, surface water, and air, the numeric cleanup levels set forth in the February 1991, Model Toxics Control Act, WAC 173-340-700 through 760 (excluding 745) methods A and B only calculated using residential exposure assumptions according to the Model Toxics Control Act Regulations, Chapter 173-340 WAC as now or hereafter amended. Primarily, these will be numeric cleanup levels calculated according to MTCA Method B, although MTCA Method A may be used as appropriate, see WAC 173-340-700 through WAC 173-340-760, excluding WAC 173-340-745; and

(2)(b)(ii) For all structures, equipment, bases, liners, etc., clean closure standards shall be set by the department on a case by case basis in accordance with the closure performance standards of WAC 173-303-610(2)(a)(ii) and in a manner that minimizes or eliminates post-closure escape of dangerous waste constituents.

Corrective Action Revisions**19. WAC 173-303-040**

"Corrective action management unit" or "CAMU" means an area within a facility ~~used for the management of remediation waste,~~ that is designated by the Director pursuant to WAC 173-303-646(4)(5) and (6) for the purpose of implementing the corrective action requirements of WAC 173-303-646(2). A CAMU shall only be used for the management of remediation wastes pursuant to implementing such corrective action requirements at the facility.

20. WAC 173-303-040

"Release" means any intentional or unintentional spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of dangerous waste, ~~including~~ or dangerous constituents as defined at WAC 173-303-646(1)(c), into the environment and includes the abandonment or discarding of barrels, containers and other receptacles containing dangerous wastes or dangerous constituents and includes the definition of release at RCW

70.105D.020(10).

21. WAC 173-303-040

"Solid waste management unit" or "SWMU" means any discernible location at a facility, as defined for the purposes of corrective action, where solid wastes have been placed at any time, irrespective of whether the ~~unit~~ location was intended for the management of solid or dangerous waste. Such ~~units~~ locations include any location area at a facility at which solid wastes, including spills, have been routinely and systematically released ~~and any locations at a facility at which spills have routinely or systematically occurred~~. Such units include regulated units as defined by Chapter 173-303 WAC.

22. WAC 173-303-040

"Temporary unit" or "TU" means a tank or container unit used temporarily for the treatment or storage of treatment or storage unit used for the management of remediation waste, that is designated by the Director pursuant to WAC 173-303-646(7) for the purpose of implementing the corrective action requirements of WAC 173-303-646(2).

23. WAC 173-303-646(4)(a) and (5)(b)

646(4)(a) For the purpose of implementing corrective actions required by subsection (2) of this section, the Director may choose to designate an area at a facility as a corrective action management unit. Designation of a CAMU shall be in accordance with the provisions of this subsection and subsections (5) and (6). The Director may choose to designate one or more CAMUs at a facility. ~~The director may designate no CAMUs at a facility.~~

646(5)(b) When designating a CAMU, the director shall specify requirements for ~~CAMUs~~ the CAMU including the following:

24. WAC 173-303-806(4)(a)(xxiv)

WAC 173-303-806(4)(a)(xxiv):

"(xxiv) Information requirements for know releases.

(A) The following information is required for any and all known releases of dangerous waste and dangerous constituents (as defined by WAC 173-303-646(2)(c)) at the facility.

(1) The location of the release on the topographic map

required under paragraph (xviii) of this subsection.

(2) General dimensions of the release and any relevant structural description. For example, if the release is from a storage tank, provide a structural description of the tank. Supply any available drawings.

(3) Time frame over which the release occurred.

(4) Specification of all dangerous waste or dangerous constituents (as defined by WAC 173-303-646(2)(c)) present in the release, to the extent available."

Effective Date of Rule: Thirty-one days after filing.

December 6, 1993

Mary Riveland

Director

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-016 Identifying solid waste. (1) Purpose and applicability.

(a) The purpose of this section is to identify those materials that are and are not solid wastes.

(b)(i) The definition of solid waste contained in this section applies only to wastes that also are dangerous for purposes of the regulations implementing chapter 70.105 RCW. For example, it does not apply to materials (such as nondangerous scrap, paper, textiles, or rubber) that are not otherwise dangerous wastes and that are recycled.

(ii) This section identifies only some of the materials which are solid wastes and dangerous wastes under chapter 70.105 RCW. A material which is not defined as a solid waste in this section, or is not a dangerous waste identified or listed in this section, is still a solid waste and a dangerous waste for purposes of these sections if reason and authority exists under chapter 70.105 RCW and WAC 173-303-960. Within the constraints of chapter 70.105 RCW, this shall include but not be limited to any material that: Is accumulated, used, reused, or handled in a manner that poses a threat to public health or the environment; or, due to the dangerous constituent(s) in it, when used or reused would pose a threat to public health or the environment.

(c) Certain materials are solid wastes but are excluded from the requirements of this chapter by WAC 173-303-071.

(2) The following terms are used and shall have the meanings as defined in WAC 173-303-040:

- (a) Boiler
 - (b) By-product
 - (c) Incinerator
 - (d) Industrial furnace
 - (e) Reclaim
 - (f) Recover
 - (g) Recycle
 - (h) Used or reused (see reuse or use)
 - (i) Sludge
 - (j) Scrap metal
 - (k) Spent material
- (3) Definition of solid waste.

(a) A solid waste is any discarded material that is not excluded by WAC 173-303-017(2) or that is not excluded by variance granted under WAC 173-303-017(5).

(b) A discarded material is any material which is:

(i) Abandoned, as explained in subsection (4) of this section; or

(ii) Recycled, as explained in subsection (5) of this section; or

(iii) Considered inherently waste-like, as explained in subsection (6) of this section.

(4) Materials are solid waste if they are abandoned by being:

(a) Disposed of; or

(b) Burned or incinerated; or

(c) Accumulated, stored, or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated.

(5) Materials are solid wastes if they are recycled—or accumulated, stored, or treated before recycling—as specified in (a) through (d) of this subsection.

(a) Used in a manner constituting disposal. Materials noted with a "*" in column 1 of Table 1 are solid wastes when they are:

(i)(A) Applied to or placed on the land in a manner that constitutes disposal; or

(B) Used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in which cases the product itself remains a solid waste).

(ii) However, commercial chemical products listed in WAC 173-303-9903 or which exhibit any of the criteria or characteristics listed in WAC 173-303-090 or 173-303-100 are not solid wastes if they are applied to the land and that is their ordinary manner of use.

(b) Burning for energy recovery. Materials noted with a "*" in column 2 of Table 1 are solid wastes when they are:

(i) Burned to recover energy;

(ii) Used to produce a fuel or are otherwise contained in fuels (in which cases the fuel itself remains a solid waste).

However, commercial chemical products listed in WAC 173-303-9903 or which exhibit any of the criteria or characteristics listed in WAC 173-303-090 or 173-303-100 are not solid wastes if they are themselves fuels.

(c) Reclaimed. Materials noted with a "*" in column 3 of Table 1 are solid wastes when reclaimed.

(d)(i) Accumulated speculatively. Materials noted with a "*" in column 4 of Table 1 are solid wastes when accumulated speculatively.

(ii) A material is "accumulated speculatively" if it is accumulated before being recycled. A material is not accumulated speculatively, however, if the person accumulating it can show that the material is potentially recyclable and has a feasible means of being recycled; and that—during the calendar year (commencing on January 1)—the amount of material that is recycled, or transferred to a different site for recycling, equals at least seventy-five percent by weight or volume of the amount of that material accumulated at the beginning of the period. In calculating the percentage of turnover, the seventy-five percent requirement is to be applied to each material of the same type (e.g., slags from a single smelting process) that is recycled in the same way (i.e., from which the same material is recovered or that is used in the same way). Materials accumulating in units that would be exempt from regulation under WAC 173-303-071 (3)(n) are not to be included in making the calculation. (Materials that are already defined as solid wastes also are not to be included in making the calculation.) Materials are no longer in this category once they are removed from accumulation for recycling, however.

TABLE 1

| | Use constituting disposal WAC 173-303-016 (5)(a) | Energy recovery/fuel WAC 173-303-016 (5)(b) | Reclamation WAC 173-303-016 (5)(c) | Speculative accumulation WAC 173-303-016 (5)(d) |
|---|--|---|------------------------------------|---|
| Spent materials | (*) | (*) | (*) | (*) |
| Commercial chemical products | (*) | (*) | — | — |
| By-products listed in WAC 173-303-9904 | (*) | (*) | (*) | (*) |
| Sludges listed in WAC 173-303-9904 | (*) | (*) | (*) | (*) |
| By-products exhibiting a characteristic ¹ or criteria ² | (*) | (*) | — | (*) |
| Sludges exhibiting a characteristic ¹ or criteria ² | (*) | (*) | — | (*) |
| Scrap metal | (*) | (*) | (*) | (*) |

Note: The terms "spent materials," "sludges," "by-products," and "scrap metal" are defined in WAC 173-303-040.

¹ The characteristics of dangerous waste are described in WAC 173-303-090.

² The dangerous waste criteria are described in WAC ((~~173-303-084 and 173-303-101 through 173-303-103~~) 173-303-100).

(6) Inherently waste-like materials. The following materials are solid wastes when they are recycled in any manner:

(a) Dangerous Waste Nos. F020, F021 (unless used as an ingredient to make a product at the site of generation), F022, F023, F026, and F028.

(b) The department will use the following criteria to add wastes to (a) of this subsection:

(i)(A) The materials are ordinarily disposed of, burned, or incinerated; or

(B) The materials contain toxic constituents listed in WAC 173-303-9905 and these constituents are not ordinarily found in raw materials or products for which the materials substitute (or are found in raw materials or products in smaller concentrations) and are not used or reused during the recycling process; and

(ii) The material may pose a substantial hazard to human health or the environment when recycled.

(7) Documentation of claims that materials are not solid wastes or are conditionally exempt from regulation. Respondents in actions to enforce regulations implementing chapter 70.105 RCW who raise a claim that a certain material is not a solid waste, or is conditionally exempt from regulation, must demonstrate that there is a known market or disposition for the material, and that they meet the terms of the exclusion or exemption. In doing so, they must provide appropriate documentation (such as contracts showing that a second person uses the material as an ingredient in a production process) to demonstrate that the material is not a waste, or is exempt from regulation. In addition, owners or operators of facilities claiming that they actually are recycling materials must show that they have the necessary equipment to do so.

AMENDATORY SECTION (Amending Order DE 83-36, filed 4/18/84)

WAC 173-303-020 Applicability. Except as expressly provided elsewhere herein, this chapter 173-303 WAC shall apply to all persons who handle dangerous wastes and solid wastes that may designate as dangerous wastes including, but not limited to:

- (1) Generators;
- (2) Transporters;
- (3) Owners and operators of dangerous waste recycling, transfer, storage, treatment, and disposal facilities; and
- (4) The operator of the state's extremely hazardous waste management facility.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-040 Definitions. When used in this regulation, the following terms have the meanings given below.

"Aboveground tank" means a device meeting the definition of "tank" in this section and that is situated in such a way that the entire surface area of the tank is completely above the plane of the adjacent surrounding surface and the entire surface area of the tank (including the tank bottom) is able to be visually inspected.

"Active life" of a facility means the period from the initial receipt of dangerous waste at the facility until the department receives certification of final closure.

"Active portion" means that portion of a facility which is not a closed portion, and where dangerous waste recycling, reuse, reclamation, transfer, treatment, storage or disposal operations are being or have been conducted after:

The effective date of the waste's designation by 40 CFR Part 261; and

March 10, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261. (See also "closed portion" and "inactive portion.")

PERMANENT

"Acutely hazardous waste" means dangerous waste sources (listed in WAC 173-303-9904) F020, F021, F022, F023, F026, or F027, and discarded chemical products (listed in WAC 173-303-9903) that are identified with a dangerous waste number beginning with a "P" or that show an "X" or "A" in the reason for designation column, including those wastes mixed with source, special nuclear, or by-product material subject to the Atomic Energy Act of 1954.

"Ancillary equipment" means any device including, but not limited to, such devices as piping, fittings, flanges, valves, and pumps, that is used to distribute, meter, or control the flow of dangerous waste from its point of generation to a storage or treatment tank(s), between dangerous waste storage and treatment tanks to a point of disposal on-site, or to a point of shipment for disposal off-site.

"Aquatic LC₅₀" (same as TLM₉₆) means a concentration in mg/L (ppm) which kills in 96 hours half of a group of ten or more of a medium sensitivity warm water species of fish such as *Lepomis macrochirus* (bluegill) or *Pimephales promelas* (flathead minnow), or cold water species such as salmonidae, when using the testing method described in WAC 173-303-110.

"Aquifer" means a geologic formation, group of formations, or part of a formation capable of yielding a significant amount of ground water to wells or springs.

"Asbestos containing waste material" means any waste that contains more than one percent asbestos by weight and that can be crumbled, pulverized, or reduced to powder when dry, by hand pressure.

"Batch" means any waste which is generated less frequently than once a month.

"Berm" means the shoulder of a dike.

"Boiler" means an enclosed device using controlled flame combustion and having the following characteristics:

The unit must have physical provisions for recovering and exporting thermal energy in the form of steam, heated fluids, or heated gases; and

The unit's combustion chamber and primary energy recovery section(s) must be of integral design. To be of integral design, the combustion chamber and the primary energy recovery section(s) (such as waterwalls and superheaters) must be physically formed into one manufactured or assembled unit. A unit in which the combustion chamber and the primary energy recovery section(s) are joined only by ducts or connections carrying flue gas is not integrally designed; however, secondary energy recovery equipment (such as economizers or air preheaters) need not be physically formed into the same unit as the combustion chamber and the primary energy recovery section. The following units are not precluded from being boilers solely because they are not of integral design: Process heaters (units that transfer energy directly to a process stream), and fluidized bed combustion units; and

While in operation, the unit must maintain a thermal energy recovery efficiency of at least sixty percent, calculated in terms of the recovered energy compared with the thermal value of the fuel; and

The unit must export and utilize at least seventy-five percent of the recovered energy, calculated on an annual basis. In this calculation, no credit shall be given for recovered heat used internally in the same unit. (Examples of internal use are the preheating of fuel or combustion air,

and the driving of induced or forced draft fans or feedwater pumps); or

The unit is one which the department has determined, on a case-by-case basis, to be a boiler, after considering the standards in WAC 173-303-017(6).

"By-product" means a material that is not one of the primary products of a production process and is not solely or separately produced by the production process. Examples are process residues such as slags or distillation column bottoms. The term does not include a co-product that is produced for the general public's use and is ordinarily used in the form it is produced by the process.

"Carbon regeneration unit" means any enclosed thermal treatment device used to regenerate spent activated carbon.

"Carcinogenic" means a material known to contain (an IARC positive or suspected, human or animal carcinogen) a substance which has sufficient or limited evidence as a human or animal carcinogen as listed in both IARC and either IRIS or HEAST.

"Closed portion" means that portion of a facility which an owner or operator has closed, in accordance with the approved facility closure plan and all applicable closure requirements.

"Closure" means the requirements placed upon all TSD facilities to ensure that all such facilities are closed in an acceptable manner (see also "post-closure").

"Commercial chemical product or manufacturing chemical intermediate" refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient.

"Commercial fertilizer" means any substance containing one or more recognized plant nutrients and which is used for its plant nutrient content and/or which is designated for use or claimed to have value in promoting plant growth, and shall include, but not be limited to, limes, gypsum, and manipulated animal manures and vegetable compost. The commercial fertilizer must be registered with the state or local agency regulating the fertilizer in the locale in which the fertilizer is being sold or applied.

"Compliance procedure" shall mean any proceedings instituted pursuant to the Hazardous Waste Disposal Act as amended in 1980 and 1983, and chapter 70.105A RCW, or regulations issued under authority of state law, which seeks to require compliance, or which is in the nature of an enforcement action or an action to cure a violation. A compliance procedure includes a notice of intention to terminate a permit pursuant to WAC 173-303-830(5), or an application in the state superior court for appropriate relief under the Hazardous Waste Management Act. A compliance procedure is considered to be pending from the time a notice of violation or of intent to terminate a permit is issued or judicial proceedings are begun, until the department notifies the owner or operator in writing that the violation has been corrected or that the procedure has been withdrawn or discontinued.

"Component" means either the tank or ancillary equipment of a tank system.

"Constituent" or "dangerous waste constituent" means a chemically distinct component of a dangerous waste stream or mixture.

"Container" means any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

"Contingency plan" means a document setting out an organized, planned, and coordinated course of action to be followed in case of a fire, explosion, or release of dangerous waste or dangerous waste constituents which could threaten the public health or environment.

"Contract" means the written agreement signed by the department and the state operator.

"Corrective action management unit" or "CAMU" means an area within a facility that is designated by the director pursuant to WAC 173-303-646 (4), (5), and (6) for the purpose of implementing the corrective action requirements of WAC 173-303-646(2). A CAMU shall only be used for the management of remediation wastes pursuant to implementing such corrective action requirements at the facility.

"Corrosion expert" means a person who, by reason of his knowledge of the physical sciences and the principles of engineering and mathematics, acquired by a professional education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged metal piping systems and metal tanks. Such a person must be certified as being qualified by the National Association of Corrosion Engineers (NACE) or be a registered professional engineer who has certification or licensing that includes education and experience in corrosion control on buried or submerged metal piping systems and metal tanks.

"Dangerous waste constituents" means those constituents listed in WAC 173-303-9905 and any other constituents that have caused a waste to be a dangerous waste under this chapter.

"Dangerous waste management unit" is a contiguous area of land on or in which dangerous waste is placed, or the largest area in which there is a significant likelihood of mixing dangerous waste constituents in the same area. Examples of dangerous waste management units include a surface impoundment, a waste pile, a land treatment area, a landfill cell, an incinerator, a tank and its associated piping and underlying containment system and a container storage area. A container alone does not constitute a unit; the unit includes containers and the land or pad upon which they are placed.

"Dangerous wastes" means those solid wastes designated in WAC 173-303-070 through ~~((173-303-103))~~ 173-303-100 as dangerous₁ or extremely hazardous or mixed waste. As used in this chapter, the words "dangerous waste" will refer to the full universe of wastes regulated by this chapter ~~((including dangerous and extremely hazardous waste, while)).~~ The abbreviation "DW" will refer only to that part of the regulated universe which is ~~((dangerous only, and))~~ not extremely hazardous waste. (See also "extremely hazardous waste₁" ~~((and))~~ "hazardous waste₂" and "mixed waste" definitions.)

"Department" means the department of ecology.

"Dermal LD₅₀" means the single dosage in milligrams per kilogram (mg/kg) body weight which, when dermally (skin) applied for 24 hours, within 14 days kills half of a

group of ten rabbits each weighing between 2.0 and 3.0 kilograms.

"Designated facility" means the facility designated by the generator on the manifest to receive a dangerous waste shipment and which is authorized pursuant to this chapter or RCRA to recycle or manage dangerous waste.

"Dike" means an embankment or ridge of natural or man-made materials used to prevent the movement of liquids, sludges, solids, or other substances.

"Director" means the director of the department of ecology or his designee.

"Discharge" or "dangerous waste discharge" means the accidental or intentional release of hazardous substances, dangerous waste or dangerous waste ~~((constituents (constituents)))~~ constituents such that the substance, waste or a waste constituent may enter or be emitted into the environment. ~~((Release includes, but is not limited to, the actions of: Spilling, leaking, pumping, pouring, emitting, dumping, emptying, depositing, placing, or injecting.))~~

"Disposal" means the discharging, discarding, or abandoning of dangerous wastes or the treatment, decontamination, or recycling of such wastes once they have been discarded or abandoned. This includes the discharge of any dangerous wastes into or on any land, air, or water.

"Domestic sewage" means untreated sanitary wastes ~~((from residential sources))~~ that pass through a sewer system to a publicly owned treatment works (POTW) for treatment.

"Draft permit" means a document prepared under WAC 173-303-840 indicating the department's tentative decision to issue or deny, modify, revoke and reissue, or terminate a permit. A notice of intent to terminate or deny a permit are types of draft permits. A denial of a request for modification, revocation and reissuance, or termination as discussed in WAC 173-303-830 is not a draft permit.

"Elementary neutralization unit" means a device which:

Is used for neutralizing wastes which are dangerous wastes only because they exhibit the corrosivity characteristics defined in WAC 173-303-090 or are listed in WAC 173-303-081, or in 173-303-082 only for this reason; and

Meets the definition of tank, tank system, container, transport vehicle, or vessel.

"Environment" means any air, land, water, or ground water.

"EPA/state identification number" or "EPA/state ID#" means the number assigned by EPA or by the department of ecology to each generator, transporter, and TSD facility.

"Existing tank system" or "existing component" means a tank system or component that is used for the storage or treatment of dangerous waste and that is in operation, or for which installation has commenced on or prior to February 3, 1989. Installation will be considered to have commenced if the owner or operator has obtained all federal, state, and local approvals or permits necessary to begin physical construction of the site or installation of the tank system and if either:

A continuous on-site physical construction or installation program has begun; or

The owner or operator has entered into contractual obligations, which cannot be cancelled or modified without substantial loss, for physical construction of the site or installation of the tank system to be completed within a reasonable time.

"Existing TSD facility" means a facility which was in operation or for which construction commenced on or before November 19, 1980, for wastes designated by 40 CFR Part 261, or August 9, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261. A facility has commenced construction if the owner or operator has obtained permits and approvals necessary under federal, state, and local statutes, regulations, and ordinances and either:

A continuous on-site, physical construction program has begun; or

The owner or operator has entered into contractual obligation, which cannot be cancelled or modified without substantial loss, for physical construction of the facility to be completed within a reasonable time.

"Extremely hazardous waste" means those dangerous and mixed wastes designated in WAC 173-303-070 through ~~((173-303-103))~~ 173-303-100 as extremely hazardous. The abbreviation "EHW" will be used in this chapter to refer to those dangerous and mixed wastes which are extremely hazardous. (See also "dangerous waste" and "hazardous waste" definitions.)

"Facility" means all contiguous land, and structures, other appurtenances, and improvements on the land used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of dangerous waste. A facility may consist of several treatment, storage, or disposal operational units (e.g., one or more landfills, surface impoundments, or combination of them). Unless otherwise specified in this chapter, the terms "facility," "treatment, storage, disposal facility," "TSD facility," "dangerous waste facility" or "waste management facility" shall be used interchangeably. For the purposes of implementing corrective action imposed pursuant to WAC 173-303-646 (2) or (3), the term facility has the following meaning: All contiguous property under the control of an owner or operator seeking or required to have a permit under the provisions of chapter 70.105 RCW or chapter 173-303 WAC, including the definition of facility at RCW 70.105D.020(3).

"Final closure" means the closure of all dangerous waste management units at the facility in accordance with all applicable closure requirements so that dangerous waste management activities under WAC 173-303-400 and 173-303-600 through 173-303-670 are no longer conducted at the facility. Areas only subject to generator standards WAC 173-303-170 through 173-303-230 need not be included in final closure.

"Food chain crops" means tobacco, crops grown for human consumption, and crops grown to feed animals whose products are consumed by humans.

"Freeboard" means the vertical distance between the top of a tank or surface impoundment dike, and the surface of the waste contained therein.

"Fugitive emissions" means the emission of contaminants from sources other than the control system exit point. Material handling, storage piles, doors, windows and vents are typical sources of fugitive emissions.

"Generator" means any person, by site, whose act or process produces dangerous waste or whose act first causes a dangerous waste to become subject to regulation.

"Genetic properties" means those properties which cause or significantly contribute to mutagenic, teratogenic, or carcinogenic effects in man or wildlife.

"Ground water" means water which fills voids below the land surface and in the earth's crust.

"Halogenated hydrocarbons" (HH) means any organic compounds which, as part of their composition, include one or more atoms of fluorine, chlorine, bromine, iodine, or astatine. The requirements of this chapter apply to only those halogenated hydrocarbons which can be obtained using the testing method described in WAC 173-303-110, testing methods, and which are persistent dangerous wastes.

"Hazardous substances" means any liquid, solid, gas, or sludge, including any material, substance, product, commodity, or waste, regardless of quantity, that exhibits any of the physical, chemical or biological properties described in WAC 173-303-090(~~(, 173-303-101, 173-303-102, or 173-303-103))~~) or 173-303-100.

"Hazardous wastes" means those solid wastes designated by 40 CFR Part 261, and regulated as hazardous and/or mixed waste by the United States EPA. This term will never be abbreviated in this chapter to avoid confusion with the abbreviations "DW" and "EHW." (See also "dangerous waste" and "extremely hazardous waste" definitions.)

"Ignitable waste" means a dangerous waste that exhibits the characteristic of ignitability described in WAC 173-303-090(5).

"Inactive portion" means that portion of a facility which has not recycled, treated, stored, or disposed dangerous waste after:

The effective date of the waste's designation, for wastes designated under 40 CFR Part 261; and

March 10, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261.

"Incinerator" means any enclosed device (~~(using))~~ that: Uses controlled flame combustion (~~(that))~~ and neither meets the criteria for classification as a boiler, sludge dryer, or carbon regeneration unit, nor is listed as an industrial furnace; or

Meets the definition of infrared incinerator or plasma arc incinerator.

"Incompatible waste" means a dangerous waste which is unsuitable for placement in a particular device or facility because it may corrode or decay the containment materials, or is unsuitable for mixing with another waste or material because the mixture might produce heat or pressure, fire or explosion, violent reaction, toxic dusts, fumes, mists, or gases, or flammable fumes or gases.

"Independent qualified registered professional engineer" means a person who is licensed by the state of Washington, or a state which has reciprocity with the state of Washington as defined in RCW 18.43.100, and who is not an employee of the owner or operator of the facility for which construction or modification certification is required. A qualified professional engineer is an engineer with expertise in the specific area for which a certification is given.

"Industrial-furnace" means any of the following enclosed devices that are integral components of manufacturing processes and that use controlled flame devices to accomplish recovery of materials or energy; cement kilns, lime kilns, aggregate kilns, phosphate kilns, blast furnaces, smelting, melting, and refining furnaces (including

pyrometallurgical devices such as cupolas, reverberator furnaces, sintering machines, roasters and foundry furnaces), titanium dioxide chloride process oxidation reactors, coke ovens, methane reforming furnaces, combustion devices used in the recovery of sulfur values from spent sulfuric acid, and pulping liquor recovery furnaces. The department may decide to add devices to this list on the basis of one or more of the following factors:

The device is designed and used primarily to accomplish recovery of material products;

The device burns or reduces secondary materials as ingredients in an industrial process to make a material product;

The device burns or reduces secondary materials as effective substitutes for raw materials in processes using raw materials as principal feedstocks;

The device burns or reduces raw materials to make a material product;

The device is in common industrial use to produce a material product; and

Other factors, as appropriate.

"Infectious waste" means organisms or materials listed in WAC 173-303-083, infectious dangerous wastes.

"Infrared incinerator" means any enclosed device that uses electric powered resistance heaters as a source of radiant heat and which is not listed as an industrial furnace.

"Inground tank" means a device meeting the definition of "tank" in this section whereby a portion of the tank wall is situated to any degree within the ground, thereby preventing visual inspection of that external surface area of the tank that is in the ground.

"Inhalation LC₅₀" means a concentration in milligrams of substance per liter of air which, when administered to the respiratory tract for 4 hours or less, kills within 14 days half of a group of ten rats each weighing between 200 and 300 grams.

"Inner liner" means a continuous layer of material placed inside a tank or container which protects the construction materials of the tank or container from the waste or reagents used to treat the waste.

"Installation inspector" means a person who, by reason of his knowledge of the physical sciences and the principles of engineering, acquired by a professional education and related practical experience, is qualified to supervise the installation of tank systems.

"Interim status permit" means a temporary permit given to TSD facilities which qualify under WAC 173-303-805.

"Land disposal" means placement (~~(in a facility or)~~) on the land (~~(with the intent of leaving the dangerous waste at closure)~~), except in a corrective action management unit, and includes, but is not limited to, placement (~~(for disposal purposes)~~) in a: Landfill; surface impoundment; waste pile; injection well; land treatment facility; salt dome or salt bed formation; underground mine or cave; concrete vault; bunker; or miscellaneous unit.

"Landfill" means a disposal facility, or part of a facility, where dangerous waste is placed in or on land and which is not a pile, a land treatment facility, a surface impoundment, or an underground injection well, a salt dome formation, a salt bed formation, an underground mine, ((or)) a cave, or a corrective action management unit.

"Land treatment" means the practice of applying dangerous waste onto or incorporating dangerous waste into the soil surface so that it will degrade or decompose. If the waste will remain after the facility is closed, this practice is disposal.

"Leachable inorganic waste" means solid dangerous waste (i.e., passes paint filter test) that is not an organic/ carbonaceous waste and exhibits the toxicity characteristic (dangerous waste numbers D004 to D011, only) under WAC 173-303-090(8).

"Leachate" means any liquid, including any components suspended in the liquid, that has percolated through or drained from dangerous waste.

"Leak-detection system" means a system capable of detecting the failure of either the primary or secondary containment structure or the presence of a release of dangerous waste or accumulated liquid in the secondary containment structure. Such a system must employ operational controls (e.g., daily visual inspections for releases into the secondary containment system of aboveground tanks) or consist of an interstitial monitoring device designed to detect continuously and automatically the failure of the primary or secondary containment structure or the presence of a release of dangerous waste into the secondary containment structure.

"Legal defense costs" means any expenses that an insurer incurs in defending against claims of third parties brought under the terms and conditions of an insurance policy.

"Liner" means a continuous layer of man-made or natural materials which restrict the escape of dangerous waste, dangerous waste constituents, or leachate through the sides, bottom, or berms of a surface impoundment, waste pile, or landfill.

"Major facility" means a facility or activity classified by the department as major.

"Manifest" means the shipping document, prepared in accordance with the requirements of WAC 173-303-180, which is used to identify the quantity, composition, origin, routing, and destination of a dangerous waste while it is being transported to a point of transfer, disposal, treatment, or storage.

"Manufacturing process unit" means a unit which is an integral and inseparable portion of a manufacturing operation, processing a raw material into a manufacturing intermediate or finished product, reclaiming spent materials or reconditioning components.

"Miscellaneous unit" means a dangerous waste management unit where dangerous waste is treated, stored, or disposed of and that is not a container, tank, surface impoundment, pile, land treatment unit, landfill, incinerator, boiler, industrial furnace, corrective action management unit, temporary unit, underground injection well with appropriate technical standards under 40 CFR Part 146, or unit eligible for a research, development, and demonstration permit under WAC 173-303-809.

"Mixed waste" means a dangerous, extremely hazardous, or acutely hazardous waste that contains both a nonradioactive hazardous component and, as defined by 10 CFR 20.3, source, special nuclear, or by-product material subject to the Atomic Energy Act of 1954 (42 U.S.C. 2011 et seq.).

"New tank system" or "new tank component" means a tank system or component that will be used for the storage

or treatment of dangerous waste and for which installation has commenced after February 3, 1989; except, however, for purposes of WAC 173-303-640 (4)(g)(ii) and 173-303-400(3), a new tank system is one for which construction commences after February 3, 1989. (See also "existing tank system.")

"New TSD facility" means a facility which began operation or for which construction commenced after November 19, 1980, for wastes designated by 40 CFR Part 261, or August 9, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261.

~~("Miscellaneous unit" means a dangerous waste management unit where dangerous waste is treated, stored, or disposed of and that is not a container, tank, surface impoundment, pile, land treatment unit, landfill, incinerator, boiler, industrial furnace, underground injection well with appropriate technical standards under 40 CFR Part 146, or unit eligible for a research, development, and demonstration permit under WAC 173-303-809.)~~

"NIOSH registry" means the registry of toxic effects of chemical substances which is published by the National Institute for Occupational Safety and Health.

"Nonsudden accident" or "nonsudden accidental occurrence" means an unforeseen and unexpected occurrence which takes place over time and involves continuous or repeated exposure.

"Occurrence" means an accident, including continuous or repeated exposure to conditions, which results in bodily injury or property damage which the owner or operator neither expected nor intended to occur.

"Off-specification used oil fuel" means used oil fuel that exceeds any specification level described in Table 1 in WAC 173-303-515.

"Onground tank" means a device meeting the definition of "tank" in this section and that is situated in such a way that the bottom of the tank is on the same level as the adjacent surrounding surface so that the external tank bottom cannot be visually inspected.

"On-site" means the same, geographically contiguous, or bordering property. Travel between two properties divided by a public right of way, and owned, operated, or controlled by the same person, shall be considered on-site travel if: The travel crosses the right of way at a perpendicular intersection; or, the right of way is controlled by the property owner and is inaccessible to the public.

"Operator" means the person responsible for the overall operation of a facility. (See also "state operator.")

"Oral LD₅₀" means the single dosage in milligrams per kilogram (mg/kg) body weight, when orally administered, which, within 14 days, kills half a group of ten or more white rats each weighing between 200 and 300 grams.

"Organic/carbonaceous waste" means a dangerous waste that contains combined concentrations of greater than ten percent organic/carbonaceous constituents in the waste; organic/carbonaceous constituents are those substances that contain carbon-hydrogen, carbon-halogen, or carbon-carbon chemical bonding.

"Partial closure" means the closure of a dangerous waste management unit in accordance with the applicable closure requirements of WAC 173-303-400 and 173-303-600 through 173-303-670 at a facility that contains other active dangerous waste management units. For example, partial closure may

include the closure of a tank (including its associated piping and underlying containment systems), landfill cell, surface impoundment, waste pile, or other dangerous waste management unit, while other units of the same facility continue to operate.

"Permit" means an authorization which allows a person to perform dangerous waste transfer, storage, treatment, or disposal operations, and which typically will include specific conditions for such facility operations. Permits must be issued by one of the following:

The department, pursuant to this chapter;

United States EPA, pursuant to 40 CFR Part 270; or

Another state authorized by EPA, pursuant to 40 CFR Part 271.

"Permit-by-rule" means a provision of this chapter stating that a facility or activity is deemed to have a dangerous waste permit if it meets the requirements of the provision.

"Persistence" means the quality of a material which retains more than half of its initial activity after one year (365 days) in either a dark anaerobic or dark aerobic environment at ambient conditions.

"Person" means any person, firm, association, county, public or municipal or private corporation, agency, or other entity whatsoever.

"Pesticide" means but is not limited to: Any substance or mixture of substances intended to prevent, destroy, control, repel, or mitigate any insect, rodent, nematode, mollusk, fungus, weed, and any other form of plant or animal life, or virus (except virus on or in living man or other animal) which is normally considered to be a pest or which the department of agriculture may declare to be a pest; any substance or mixture of substances intended to be used as a plant regulator, defoliant, or desiccant; any substance or mixture of substances intended to be used as spray adjuvant; and, any other substance intended for such use as may be named by the department of agriculture by regulation. Herbicides, fungicides, insecticides, and rodenticides are pesticides for the purposes of this chapter.

"Pile" means any noncontainerized accumulation of solid, nonflowing dangerous waste that is used for treatment or storage.

"Plasma arc incinerator" means any enclosed device using a high intensity electrical discharge or arc as a source of heat and which is not listed as an industrial furnace.

"Point source" means any confined and discrete conveyance from which pollutants are or may be discharged. This term includes, but is not limited to, pipes, ditches, channels, tunnels, wells, cracks, containers, rolling stock, concentrated animal feeding operations, or watercraft, but does not include return flows from irrigated agriculture.

"Polycyclic aromatic hydrocarbons" (PAH) means those hydrocarbon molecules composed of two or more benzene rings. For the purposes of this chapter, the PAH of concern for designation are only those PAH with more than three ~~(rings)~~ and less than seven fused benzene rings.

"Post-closure" means the requirements placed upon disposal facilities (e.g., landfills, impoundments closed as disposal facilities, etc.) after closure to ensure their environmental safety for a number of years after closure. (See also "closure.")

"Publicly owned treatment works" or "POTW" means any device or system, owned by the state or a municipality, which is used in the treatment, recycling, or reclamation of municipal sewage or liquid industrial wastes. This term includes sewers, pipes, or other conveyances only if they convey wastewater to a POTW.

"Reactive waste" means a dangerous waste that exhibits the characteristic of reactivity described in WAC 173-303-090(7).

"Reclaim" means to process a material in order to recover useable products, or to regenerate the material. Reclamation is the process of reclaiming.

"Recover" means extract a useable material from a solid or dangerous waste through a physical, chemical, biological, or thermal process. Recovery is the process of recovering.

"Recycle" means to use, reuse, or reclaim a material.

"Regulated unit" means any new or existing surface impoundment, landfill, land treatment area or waste pile that receives any dangerous waste after:

January 26, 1983 for wastes regulated by 40 CFR Part 261;

October 31, 1984 for wastes designated only by this chapter and not regulated by 40 CFR Part 261; or

The date six months after a waste is newly identified by amendments to 40 CFR Part 261 or this chapter which cause the waste to be regulated.

"Release" means any intentional or unintentional spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of dangerous wastes, or dangerous constituents as defined at WAC 173-303-646 (1)(c), into the environment and includes the abandonment or discarding of barrels, containers, and other receptacles containing dangerous wastes or dangerous constituents and includes the definition of release at RCW 70.105D.020(10).

"Remediation waste" means all solid or dangerous wastes, and all media (including ground water, surface water, soils, and sediments) and debris, which contain listed dangerous wastes, or which themselves exhibit a dangerous waste characteristic or criteria, that are managed for the purpose of implementing corrective action requirements imposed pursuant to WAC 173-303-646 (2) or (3). For a given facility, remediation wastes may originate only from within the facility boundary, except that remediation waste may include wastes managed in implementing corrective action in accordance with WAC 173-303-646 (2)(b) for releases extending beyond the facility boundary.

"Representative sample" means a sample which can be expected to exhibit the average properties of the sample source.

"Reuse or use" means to employ a material either:

As an ingredient (including use as an intermediate) in an industrial process to make a product (for example, distillation bottoms from one process used as feedstock in another process). However, a material will not satisfy this condition if distinct components of the material are recovered as separate end products (as when metals are recovered from metal-containing secondary materials); or

In a particular function or application as an effective substitute for a commercial product (for example, spent pickle liquor used as phosphorous precipitant and sludge conditioner in wastewater treatment).

"Run-off" means any rainwater, leachate, or other liquid which drains over land from any part of a facility.

"Run-on" means any rainwater, leachate, or other liquid which drains over land onto any part of a facility.

"Satellite accumulation area" means a location at or near any point of generation where hazardous waste is initially accumulated in containers (during routine operations) prior to consolidation at a designated ninety-day accumulation area or storage area. The area must be under the control of the operator of the process generating the waste or secured at all times to prevent improper additions of wastes into the satellite containers.

"Schedule of compliance" means a schedule of remedial measures in a permit including an enforceable sequence of interim requirements leading to compliance with this chapter.

"Scrap metal" means bits and pieces of metal parts (e.g., bars, turnings, rods, sheets, wire) or metal pieces that may be combined together with bolts or soldering (e.g., radiators, scrap automobiles, railroad box cars), which when worn or superfluous can be recycled.

"Sludge" means any solid, semisolid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility. This term does not include the treated effluent from a wastewater treatment plant.

"Solid acid waste" means a dangerous waste that exhibits the characteristic of low pH under the corrosivity tests of either WAC 173-303-090 (6)(a)(ii) or (b).

"Solid waste management unit" or "SWMU" means any discernible location at a facility, as defined for the purposes of corrective action, where solid wastes have been placed at any time, irrespective of whether the location was intended for the management of solid or dangerous waste. Such locations include any area at a facility at which solid wastes, including spills, have been routinely and systematically released. Such units include regulated units as defined by chapter 173-303 WAC.

"Special incinerator ash" means ash residues resulting from the operation of incineration or energy recovery facilities managing municipal solid waste from residential, commercial and industrial establishments, if the ash residues are designated as dangerous waste only by this chapter and not designated as hazardous waste by 40 CFR Part 261.

"Special waste" means any dangerous waste that is solid only (nonliquid, nonaqueous, nongaseous), that is not a regulated hazardous waste under 40 CFR Part 261, and that is designated as only DW in WAC 173-303-090(~~(1), 173-303-101, 173-303-102, or 173-303-103~~) or 173-303-100. Any solid waste that is EHW or that is regulated by the United States EPA as hazardous waste cannot be a special waste.

"Spent material" means any material that has been used and as a result of contamination can no longer serve the purpose for which it was produced without processing.

"Stabilization" and "solidification" means a technique that limits the solubility and mobility of dangerous waste constituents. Solidification immobilizes a waste through physical means and stabilization immobilizes the waste by bonding or chemically reacting with the stabilizing material.

"State-only dangerous waste" means a waste designated only by this chapter, chapter 173-303 WAC, and is not regulated as a hazardous waste under 40 CFR Part 261.

"State operator" means the person responsible for the overall operation of the state's extremely hazardous waste facility on the Hanford Reservation.

"Storage" means the holding of dangerous waste for a temporary period. "Accumulation" of dangerous waste, by the generator on the site of generation, is not storage as long as the generator complies with the applicable requirements of WAC 173-303-200 and 173-303-201.

"Sudden accident" means an unforeseen and unexpected occurrence which is not continuous or repeated in nature.

"Sump" means any pit or reservoir that meets the definition of tank and those troughs/trenches connected to it that serves to collect dangerous waste for transport to dangerous waste storage, treatment, or disposal facilities.

"Surface impoundment" means a facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), and which is designed to hold an accumulation of liquid dangerous wastes or dangerous wastes containing free liquids. The term includes holding, storage, settling, and aeration pits, ponds, or lagoons, but does not include injection wells.

"Tank" means a stationary device designed to contain an accumulation of dangerous waste, and which is constructed primarily of nonearthen materials to provide structural support.

"Tank system" means a dangerous waste storage or treatment tank and its associated ancillary equipment and containment system.

"Temporary unit" or "TU" means a tank or container unit used temporarily for the treatment or storage of remediation waste, that is designated by the director pursuant to WAC 173-303-646(7) for the purpose of implementing the corrective action requirements of WAC 173-303-646 (2) or (3).

"Thermal treatment" means the ~~((use of))~~ treatment of dangerous waste in a device which uses ~~((primarily))~~ elevated temperatures as the primary means to ~~((treat a))~~ change the chemical, physical, or biological character or composition of the dangerous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge.

"TLM₉₆" means the same as "Aquatic LC₅₀".

"Totally enclosed treatment facility" means a facility for treating dangerous waste which is directly connected to a production process and which prevents the release of dangerous waste or dangerous waste constituents into the environment during treatment.

"Toxic" means having the properties to cause or to significantly contribute to death, injury, or illness of man or wildlife.

"Transfer facility" ~~((or "collection facility" means a facility at which dangerous waste shipments are collected, consolidated, and stored for more than ten days before transfer to a storage, treatment, or disposal facility))~~ means any transportation related facility including loading docks, parking areas, storage areas, and other similar areas where shipments of hazardous waste are held for ten days or less during the normal course of transportation.

"Transportation" means the movement of dangerous waste by air, rail, highway, or water.

"Transporter" means a person engaged in the off-site transportation of dangerous waste.

"Travel time" means the period of time necessary for a dangerous waste constituent released to the soil (either by accident or intent) to enter any on-site or off-site aquifer or water supply system.

"Treatability study" means a study in which a dangerous waste is subjected to a treatment process to determine: Whether the waste is amenable to the treatment process; what pretreatment (if any) is required; the optimal process conditions needed to achieve the desired treatment; the efficiency of a treatment process for a specific waste or wastes; or the characteristics and volumes of residuals from a particular treatment process. Also included in this definition for the purpose of the exemptions contained in WAC 173-303-071 (3)(r) and (s), are liner compatibility, corrosion, and other material compatibility studies and toxicological and health effects studies. A "treatability study" is not a means to commercially treat or dispose of dangerous waste.

"Treatment" means the physical, chemical, or biological processing of dangerous waste to make such wastes nondangerous or less dangerous, safer for transport, amenable for energy or material resource recovery, amenable for storage, or reduced in volume, with the exception of compacting, repackaging, and sorting as allowed under WAC 173-303-400(2) and 173-303-600(3).

"Treatment zone" means a soil area of the unsaturated zone of a land treatment unit within which dangerous wastes are degraded, transformed or immobilized.

"Triple rinsing" means the cleaning of containers in accordance with the requirements of WAC 173-303-160 (2)(b), containers.

"Underground injection" means the subsurface emplacement of fluids through a bored, drilled, or driven well, or through a dug well, where the depth of the dug well is greater than the largest surface dimension.

"Underground tank" means a device meeting the definition of "tank" in this section whose entire surface area is totally below the surface of and covered by the ground.

"Unfit-for-use tank system" means a tank system that has been determined through an integrity assessment or other inspection to be no longer capable of storing or treating dangerous waste without posing a threat of release of dangerous waste to the environment.

"Unsaturated zone" means the zone between the land surface and the water table.

"Uppermost aquifer" means the geological formation nearest the natural ground surface that is capable of yielding ground water to wells or springs. It includes lower aquifers that are hydraulically interconnected with this aquifer within the facility property boundary.

"Used oil" means oil that has been refined from crude oil, used, and, as a result of such use, is contaminated by physical or chemical impurities.

"Waste water treatment unit" means a device ~~((which))~~ that:

Is part of a waste water treatment facility which is subject to regulation under either:

Section 402 or section 307(b) of the Federal Clean Water Act; or

Chapter 90.48 RCW, State Water Pollution Control Act, provided that ~~((any dangerous))~~ the waste treated at the

facility is (~~designated only by this chapter, chapter 173-303 WAC, and is not regulated as hazardous waste under 40 CFR Part 261~~) a state-only dangerous waste; and

Handles dangerous waste (~~as defined in WAC 173-303-070 through 173-303-103 in either of~~) in the following manner:

Receives and treats or stores an influent (~~dangerous~~) waste water; or

Generates and accumulates or treats or stores a (~~dangerous~~) waste water treatment sludge; and

Meets the definition of tank or tank system in this section.

"Water or rail (bulk shipment)" means the bulk transportation of dangerous waste which is loaded or carried on board a vessel or railcar without containers or labels.

"Zone of engineering control" means an area under the control of the owner/operator that, upon detection of a dangerous waste release, can be readily cleaned up prior to the release of dangerous waste or dangerous constituents to ground water or surface water.

Any terms used in this chapter which have not been defined in this section shall have either the same meaning as set forth in Title 40 CFR Parts 260, 264, 270, and 124 or else shall have their standard, technical meaning.

As used in this chapter, words in the masculine gender also include the feminine and neuter genders, words in the singular include the plural, and words in the plural include the singular.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-045 References to EPA's hazardous waste and permit regulations. Any references in this chapter to any parts, subparts, or sections from EPA's hazardous waste regulations, including 40 CFR Parts 260 through 280 and Part 124, shall be in reference to those rules as they existed on July 1, (~~1990~~) 1993. Copies of the appropriate referenced federal requirements are available upon request from the department.

AMENDATORY SECTION (Amending Order 92-32, filed 1/5/93, effective 2/5/93)

WAC 173-303-070 Designation of dangerous waste.

(1) Purpose and applicability.

(a) This section describes the procedures for determining whether or not a solid waste is DW or EHW.

(b) The procedures in this section are applicable to any person who generates a solid waste (including recyclable materials) that is not exempted or excluded by this chapter or by the department. Any person who must determine whether or not his solid waste is designated must follow the procedures set forth in subsection (3) of this section. Any person who determines by these procedures that his waste is designated DW or EHW shall be subject to all applicable requirements of this chapter.

(2)(a) Once a material has been determined to be a dangerous waste, then any solid waste generated from the recycling, treatment, storage, or disposal of that dangerous waste is a dangerous waste unless and until:

(i) The generator has been able to accurately describe the variability or uniformity of the waste over time, and has

been able to obtain demonstration samples which are representative of the waste's variability or uniformity; and

(ii)(A) It does not exhibit any of the characteristics of WAC 173-303-090; and

(B) If it was a listed waste under WAC 173-303-080 through 173-303-083, it also has been exempted pursuant to WAC 173-303-910(3); or

(iii) If originally designated only through WAC (~~173-303-084 or 173-303-101 through 173-303-103~~) 173-303-100, it does not exhibit any of the criteria of WAC (~~173-303-101 through 173-303-103~~) 173-303-100.

Such solid waste shall include but not be limited to any sludge, spill residue, ash emission control dust, leachate, or precipitation run-off. Precipitation run-off will not be considered a dangerous waste if it can be shown that the run-off has not been contaminated with the dangerous waste, or that the run-off is adequately addressed under existing state laws (e.g. chapter 90.48 RCW), or that the run-off does not exhibit any of the criteria or characteristics described in WAC 173-303-100.

(b) Materials that are reclaimed from solid wastes and that are used beneficially (as provided in WAC 173-303-016 and 173-303-017) are not solid wastes and hence are not dangerous wastes under this section unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal.

(3) Designation procedures.

(a) To determine whether or not (~~his~~) a waste is designated a person shall check (~~his~~) the waste against the following sections, and in the following order:

(i) First, Discarded chemical products, WAC 173-303-081;

(ii) Second, Dangerous waste sources, WAC 173-303-082;

(iii) Third, (~~Infectious dangerous wastes, WAC 173-303-083;~~) Dangerous waste characteristics, WAC 173-303-090; and

(iv) Fourth, Dangerous waste (~~mixtures, WAC 173-303-084; and~~

~~Last, Dangerous waste characteristics, WAC 173-303-090~~) criteria, WAC 173-303-100.

(b) (~~In addition to the designation procedures specified in (a) of this subsection, a person may choose or may be required under subsection (4) of this section to check his waste against the following sections, and in the following order:~~

~~(i) First, Toxic dangerous wastes, WAC 173-303-101;~~

~~(ii) Second, Persistent dangerous wastes, WAC 173-303-102;~~

~~(iii) Last, Carcinogenic dangerous wastes, WAC 173-303-103.~~

(e)) A person shall check each section, in the order set forth, until he determines (~~that his~~) whether the waste is designated as a dangerous waste. Once (~~his~~) the waste is designated through the lists, (~~mixtures and~~) characteristics, or criteria he need not determine any other designations for (~~his~~) the waste, except as required by subsection (4) or (5) of this section(~~For the purposes of designating through the criteria, if a person determines that his waste is designated DW, then he must assure that it is not also EHW by checking it against the remaining sections~~), or for the purposes of compliance with the federal land disposal

restrictions, as adopted by reference in WAC 173-303-140. If the designation procedures identify a waste as both EHW and DW (e.g., a waste may be DW for corrosivity and EHW for ~~(EP-toxicity)~~ toxicity characteristic), the waste must be designated EHW. If a person has checked ~~(his)~~ the waste against each section ~~((that he is required by this section to check))~~ and ~~(his)~~ the waste is not designated, then ~~(his)~~ the waste is not subject to the requirements of chapter 173-303 WAC.

Any person who wishes to seek an exemption for a waste which has been designated DW or EHW shall comply with the requirements of WAC 173-303-072.

(c) For the purpose of determining if a solid waste is a dangerous waste as identified in WAC 173-303-080 through 173-303-100, a person shall either:

(i) Test the waste according to the methods, or an approved equivalent method, set forth in WAC 173-303-110; or

(ii) Apply knowledge of the waste in light of the materials or the process used, when:

(A) Such knowledge can be demonstrated to be sufficient for determining whether or not it designated and/or designated properly; and

(B) All data and records supporting this determination in accordance with WAC 173-303-210(3) are retained on-site.

~~(4) ((Criteria designation))~~ Testing required. Notwithstanding any other provisions of this chapter, the department may require any person to test a waste according to the methods, or an approved equivalent method, set forth in WAC 173-303-110 to determine whether or not ((his)) the waste is designated under the dangerous waste lists, characteristics, or criteria, WAC 173-303-080 through 173-303-100 ((through 173-303-103)). Such testing may be required if the department has reason to believe that ~~((his))~~ the waste would be designated DW or EHW by the dangerous waste lists, characteristics, or criteria, or if the department has reason to believe that ~~((his))~~ the waste is designated improperly (e.g., the waste has been designated DW but should actually be designated EHW ~~((by the criteria))~~). If a person, pursuant to the requirements of this subsection, determines that ~~((his))~~ the waste is a dangerous waste or that its designation must be changed, then he shall be subject to the applicable requirements of this chapter 173-303 WAC. The department shall base a requirement to ~~((designate))~~ test a waste ((by the dangerous waste criteria)) on evidence that includes, but is not limited to:

(a) Test information indicating that the person's waste may be DW or EHW;

(b) Evidence that the person's waste is very similar to another persons' already designated DW or EHW;

(c) Evidence that the persons' waste has historically been a DW or EHW; ~~((or))~~

(d) Evidence or information about a person's manufacturing materials or processes which indicate that ~~((his))~~ the wastes may be DW or EHW; or

(e) Evidence that the knowledge or test results a person has regarding a waste is not sufficient for determining whether or not it designated and/or designated properly.

(5) Special knowledge. If a generator has designated his waste under the dangerous waste lists, WAC 173-303-080 through 173-303-082, ~~((or mixtures, WAC 173-303-084))~~ or

characteristics, WAC 173-303-090, and has knowledge that ((his)) the waste also exhibits any of the dangerous waste characteristics, WAC 173-303-090, or that ((his)) the waste also meets any of the dangerous waste criteria, WAC ((173-303-101 through 173-303-103, or both)) 173-303-100, then he shall also designate ((his)) the waste in accordance with those dangerous waste characteristics, or criteria, or both.

(6) Dangerous waste numbers. When a person is reporting or keeping records on a dangerous waste, he shall use all the dangerous waste numbers which he knows are assignable to his waste from the dangerous waste lists, characteristics, or criteria. For example, if his waste is ignitable and contains extremely hazardous concentrations of halogenated hydrocarbons, he shall use the dangerous waste numbers of D001 and WP01. This shall not be construed as requiring a person to designate his waste beyond those designation requirements set forth in subsections (2), (3), (4), and (5) of this section.

(7) Quantity exclusion limits; aggregated waste quantities.

(a) Quantity exclusion limits. In each of the designation sections describing the lists, characteristics, and criteria, quantity exclusion limits (QEL) are identified. The QEL are used to distinguish when a dangerous waste is only subject to the small quantity generator provisions, and when a dangerous waste is fully subject to the requirements of this chapter. Any solid waste which is not excluded or exempted and which is listed by or exhibits the characteristics or criteria of this chapter is a dangerous waste. Small quantity generators who produce dangerous waste below the QEL are subject to certain requirements described in subsection (8) of this section.

(b) Aggregated waste quantities. A person may be generating, accumulating, or storing more than one kind of dangerous waste identified by this chapter. In such cases, the person must consider the aggregate quantity of his wastes when determining whether or not his waste amounts exceed the specific quantity exclusion limits (QEL). Waste quantities must be aggregated for all wastes with common QEL's. For the purposes of this subsection, when aggregating waste quantities, a person shall include in his calculation dangerous wastes produced by on-site treatment or recycling of dangerous wastes and dangerous wastes being accumulated or stored. For example, if a person generates, accumulates, or stores 300 pounds of an ignitable waste and 300 pounds of a persistent waste, then both wastes are regulated because their aggregate waste quantity (600 pounds) exceeds their common QEL of 220 pounds. On the other hand, if a person generates, accumulates, or stores one pound of an EHW discarded chemical product and 300 pounds of a corrosive waste, their quantities would not be aggregated because they do not share a common QEL (2.2 pounds and 220 pounds, respective QEL's). However, the total quantity of dangerous waste (QEL 220 pounds) and extremely hazardous waste (QEL 2.2 pounds) may not equal or exceed 220 pounds. Additional guidance on aggregating waste quantities is available from the department.

(c) The following are categories of waste that are excluded from the quantity determination and need not be aggregated as required by (b) of this subsection when calculating total waste quantities.

(i) Dangerous waste that is recycled and that is excluded from regulation under WAC 173-303-120 (2)(a), (3)(c), (e), or (f) is not included in the quantity determinations of this section and is not subject to any requirements of this section.

(ii) Spent materials that are generated, reclaimed, and subsequently reused on-site, so long as such spent materials have been counted once.

(8) Small quantity generators.

(a) A person is a small quantity generator and is subject to the requirements of this subsection if his waste is designated under subsection (3) of this section, and the quantity of waste that he generates, accumulates, or stores (or the aggregated quantity if he generates more than one kind of waste) does not equal or exceed the quantity exclusion limit for such waste (or wastes) as listed in WAC 173-303-081(2), 173-303-082(2), and 173-303-090(4). If a person generates, accumulates, or stores any dangerous wastes that exceed the QEL, then all dangerous waste generated, accumulated, or stored by that person is subject to the requirements of this chapter. For example, if a person generates four pounds of an EHW discarded chemical product (QEL is 2.2 pounds) and 200 pounds of an ignitable waste (QEL is 220 pounds), then both wastes are fully regulated, and the person is not a small quantity generator for either waste. A small quantity generator may accumulate such listed or characteristic waste on-site, however when the quantity (or aggregate quantity) on-site at any time equals or exceeds the quantity exclusion limit for such waste (or wastes) he will not be a small quantity generator and will be subject to all applicable requirements of this chapter. A small quantity generator who generates, accumulates, or stores waste in excess of the quantity exclusion limit and becomes subject to the full requirements of this chapter cannot again be a small quantity generator until after all dangerous waste on-site at the time he became fully regulated have been removed, treated, or disposed.

(b) A small quantity generator will not be subject to the requirements of this chapter if he or she:

(i) Complies with subsections (1), (2), (3), and (4) of this section; and

(ii) Either treats or disposes of ~~((his))~~ the dangerous waste in an on-site facility, or ensures delivery to an off-site facility, either of which is:

(A) Permitted (including permit-by-rule, interim status, or final status) under WAC 173-303-800 through 173-303-840;

(B) Authorized to manage dangerous waste by another state with a hazardous waste program approved under 40 CFR Part 271, or by EPA under 40 CFR Part 270;

(C) Permitted to manage moderate-risk waste under chapter 173-304 WAC (Minimum functional standards for solid waste handling), operated in accordance with state and local regulations, and consistent with the applicable local hazardous waste plan that has been approved by the department;

(D) A facility that beneficially uses or reuses, or legitimately recycles or reclaims ~~((his))~~ the dangerous waste, or that treats ~~((his))~~ the waste prior to such recycling activities; ~~((or))~~

(E) Permitted to manage municipal or industrial solid waste in accordance with state or local regulations, or in

accordance with another state's solid waste laws if the waste is sent out of state; ~~((and))~~ or

(F) A publicly owned treatment works (POTW) provided that the small quantity generator complies with the provisions of the domestic sewage exclusion found in WAC 173-303-071 (3)(a); and

(iii) Submits an annual report in accordance with WAC 173-303-220 if he has obtained an EPA/state identification number pursuant to WAC 173-303-060.

(c) If a small quantity generator's wastes are mixed with used oil, the mixture is subject to WAC 173-303-510 if it is destined to be burned for energy recovery. Any material produced from such a mixture by processing, blending, or other treatment is also regulated if it is destined to be burned for energy recovery.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-071 Excluded categories of waste. (1) Purpose. Certain categories of waste have been excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, because they generally are not dangerous waste, are regulated under other state and federal programs, or are recycled in ways which do not threaten public health or the environment. WAC 173-303-071 describes these excluded categories of waste.

(2) Excluding wastes. Any persons who generate a common class of wastes and who seek to categorically exclude such class of wastes from the requirements of this chapter shall comply with the applicable requirements of WAC 173-303-072. No waste class will be excluded if any of the wastes in the class are regulated as hazardous waste under 40 CFR Part 261.

(3) Exclusions. The following categories of waste are excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, 173-303-145, and 173-303-960:

~~(a) ((Domestic sewage. "Domestic sewage" means untreated sanitary wastes from residential sources that pass through a sewer system to a publicly owned treatment works (POTW) for treatment.))~~ (i) Domestic sewage; and

(ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly owned treatment works (POTW) for treatment provided:

(A) The generator or owner/operator has obtained a state waste discharge permit issued by the department, a temporary permit obtained pursuant to RCW 90.48.200, or pretreatment permit (or written discharge authorization) from a local sewage utility delegated pretreatment program responsibilities pursuant to RCW 90.48.165;

(B) The waste discharge is specifically authorized in a state waste discharge permit, pretreatment permit or written discharge authorization, or in the case of a temporary permit the waste is accurately described in the permit application;

(C) The waste discharge is not prohibited under 40 CFR Part 403.5; and

(D) The waste prior to mixing with domestic sewage shall not exhibit dangerous waste characteristics for ignitability, corrosivity, reactivity, or toxicity as defined in WAC 173-303-090, and shall not meet the dangerous waste criteria for toxic dangerous waste, persistent dangerous

waste, or for carcinogenic dangerous waste under WAC 173-303-100, unless the waste is treatable in the publicly owned treatment works (POTW) where it will be received. This exclusion does not apply to the generation, treatment, storage, recycling, or other management of dangerous wastes prior to discharge into the sanitary sewage system (~~Owners or operators of POTWs managing dangerous wastes may qualify for a permit by rule pursuant to WAC 173-303-802(4))~~);

(b) Industrial wastewater discharges that are point-source discharges subject to regulation under Section 402 of the Clean Water Act. This exclusion does not apply to the collection, storage, or treatment of industrial waste-waters prior to discharge, nor to sludges that are generated during industrial wastewater treatment. Owners or operators of certain wastewater treatment facilities managing dangerous wastes may qualify for a permit-by-rule pursuant to WAC 173-303-802(5);

(c) Household wastes, including household waste that has been collected, transported, stored, or disposed. Wastes which are residues from or are generated by the management of household wastes (e.g., leachate, ash from burning of refuse-derived fuel) are not excluded by this provision. "Household wastes" means any waste material (including garbage, trash, and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas);

(d) Agricultural crops and animal manures which are returned to the soil as fertilizers;

(e) Asphaltic materials designated only for the presence of PAHs by WAC (~~(173-303-084(6) or 173-303-102)~~) 173-303-100(6). For the purposes of this exclusion, asphaltic materials means materials intended and used for structural and construction purposes (e.g., roads, dikes, paving) which are produced from mixtures of oil and sand, gravel, ash or similar substances;

(f) Roofing tars and shingles, except that these wastes are not excluded if mixed with wastes listed in WAC 173-303-081 or 173-303-082, or if they exhibit any of the characteristics specified in WAC 173-303-090;

(g) (~~Waste wood or wood products that fails the test for the toxicity characteristic solely for arsenic and which is not a dangerous waste for any other reason or reasons, if the waste is generated by persons who utilize the arsenical-treated wood or wood products for these materials' intended end use;~~) Treated wood waste and wood products including:

(i) Arsenical-treated wood that fails the test for the toxicity characteristic of WAC 173-303-090(8) (dangerous waste numbers D004 through D017 only), or which fails any state criteria, if the waste is generated by persons who utilize the arsenical-treated wood for the materials' intended end use.

(ii) Wood treated with other preservatives provided such treated wood is, within one hundred eighty days after becoming waste:

(A) Disposed of at a landfill that is permitted in accordance with WAC 173-304-460, minimum functional standards for solid waste handling, or chapter 173-351 WAC, criteria for municipal solid waste landfills, and provided that such wood is neither a listed waste under WAC 173-303-

9903 and 173-303-9904 nor a TCLP waste under WAC 173-303-090(8); or

(B) Sent to a facility that will legitimately treat or recycle the treated wood waste, and manage any residue in accordance with that state's dangerous waste regulations; or

(C) Sent off-site to a permitted TSD facility or placed in an on-site facility which is permitted by the department under WAC 173-303-800 through WAC 173-303-845. In addition, creosote-treated wood is excluded when burned for energy recovery in an industrial furnace or boiler that has an order of approval issued pursuant to RCW 70.94.152 by ecology or a local air pollution control authority to burn creosote treated wood.

(h) Irrigation return flows;

(i) Materials subjected to in-situ mining techniques which are not removed from the ground during extraction;

(j) Mining overburden returned to the mining site;

(k) Polychlorinated biphenyl (PCB) wastes:

(i) PCB wastes whose disposal is regulated by EPA under 40 CFR 761.60 and that are dangerous either because they fail the test for toxicity characteristic (WAC 173-303-090(8), Dangerous waste codes D018 through D043 only) or because they are designated only by this chapter and not designated by 40 CFR Part 261, are exempt from regulation under this chapter except for WAC (~~(173-303-510, 173-303-515)~~) 173-303-505 through 173-303-525, and 173-303-960;

(ii) Wastes that would be designated as dangerous waste under this chapter solely because they are listed as W001 under WAC 173-303-9904 when, using EPA's PCB testing method 600/4-81-045, the waste can be shown to contain less than one part per million (ppm) PCB or when, using ASTM method D 4059-86, the waste can be shown to contain less than two parts per million (ppm) PCB;

(iii) Wastes that would be designated as dangerous waste under this chapter solely because they are listed as W001 under WAC 173-303-9904 when such wastes are:

(A) Stored in a manner equivalent to the requirements of 40 CFR 761.65; and

(B) Within one year of removal from service, disposed of either in an incinerator that complies with 40 CFR 761.70, in a chemical waste landfill that complies with 40 CFR 761.75, in a high efficiency boiler that complies with 40 CFR 761.60 (a)(2)(iii) or (a)(3)(iii), or in a facility otherwise approved in accordance with 40 CFR 761.60(e);

(l) Samples:

(i) Except as provided in (l)(ii) of this subsection, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of this chapter, when:

(A) The sample is being transported to a lab for testing or being transported to the sample collector after testing; or

(B) The sample is being stored by the sample collector before transport, by the laboratory before testing, or by the laboratory after testing prior to return to the sample collector; or

(C) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action).

(ii) In order to qualify for the exemptions in (l)(i) of this subsection, a sample collector shipping samples to a labora-

tory and a laboratory returning samples to a sample collector must:

(A) Comply with United States Department of Transportation (DOT), United States Postal Service (USPS), or any other applicable shipping requirements; or

(B) Comply with the following requirements if the sample collector determines that DOT or USPS, or other shipping requirements do not apply:

(I) Assure that the following information accompanies the sample:

(AA) The sample collector's name, mailing address, and telephone number;

(BB) The laboratory's name, mailing address, and telephone number;

(CC) The quantity of the sample;

(DD) The date of shipment;

(EE) A description of the sample; and

(II) Package the sample so that it does not leak, spill, or vaporize from its packaging.

(iii) This exemption does not apply if the laboratory determines that the waste is dangerous but the laboratory is no longer meeting any of the conditions stated in (I)(i) of this subsection;

(m) Asbestos wastes or asbestos containing wastes which would be designated only as respiratory carcinogens by WAC 173-303-084 or 173-303-103, and any other inorganic wastes which are designated only under WAC 173-303-084 or 173-303-103 because they are respiratory carcinogens, if these wastes are managed in compliance with or in a manner equivalent to the asbestos management procedures of 40 CFR Part 61;

(n) Dangerous waste generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated nonwaste-treatment-manufacturing unit until it exits the unit in which it was generated. This exclusion does not apply to surface impoundments, nor does it apply if the dangerous waste remains in the unit more than ninety days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials;

(o) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC codes 331 and 332), except that these wastes are not excluded if they exhibit one or more of the dangerous waste criteria (WAC 173-303-100 (~~through 173-303-103~~)) or characteristics (WAC 173-303-090);

(p) Wastes from burning any of the materials exempted from regulation by WAC 173-303-120 (2)(a)(v), (vi), (vii), (viii), or (ix). These wastes are not excluded if they exhibit one or more of the dangerous waste criteria;

(q) As of January 1, 1987, secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:

(i) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;

(ii) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators);

(iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed;

(iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal; and

(v) ~~((The generator ensures that))~~ A generator complies with the requirements of chapter 173-303 WAC for any residues (e.g., sludges, filters, etc.) produced from the collection, reclamation, and reuse of the secondary materials ~~((are delivered to a dangerous waste treatment, storage, or disposal facility or legitimate recycler. The generator must be able to provide documentation of such delivery. If the generator can demonstrate that the residues do not exhibit any of the dangerous waste characteristics (WAC 173-303-090) and criteria (WAC 173-303-100 through 173-303-103), then he is exempt from the requirements of this condition in this item (+))).~~

(r) Treatability study samples.

(i) Except as provided in (r)(ii) of this subsection, persons who generate or collect samples for the purpose of conducting treatability studies as defined in WAC 173-303-040 are not subject to the requirements of WAC 173-303-180, 173-303-190, and 173-303-200 (1)(a), nor are such samples included in the quantity determinations of WAC 173-303-070 (7) and (8) and 173-303-201 when:

(A) The sample is being collected and prepared for transportation by the generator or sample collector; or

(B) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or

(C) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study; or

(D) The sample or waste residue is being transported back to the original generator from the laboratory or testing facility.

(ii) The exemption in (r)(i) of this subsection is applicable to samples of dangerous waste being collected and shipped for the purpose of conducting treatability studies provided that:

(A) The generator or sample collector uses (in "treatability studies") no more than 1000 kg of any dangerous waste, 1 kg of acutely hazardous waste, or 250 kg of soils, water, or debris contaminated with acutely hazardous waste for each process being evaluated for each generated waste stream; and

(B) The mass of each sample shipment does not exceed 1000 kg of dangerous waste, 1 kg of acutely hazardous waste, or 250 kg of soils, water, or debris contaminated with acutely hazardous waste; and

(C) The sample must be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of (r)(ii)(C)(I) or (II) of this subsection are met.

(I) The transportation of each sample shipment complies with United States Department of Transportation (DOT), United States Postal Service (USPS), or any other applicable shipping requirements; or

(II) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:

(AA) The name, mailing address, and telephone number of the originator of the sample;

(BB) The name, address, and telephone number of the laboratory or testing facility that will perform the treatability study;

(CC) The quantity of the sample;

(DD) The date of shipment; and

(EE) A description of the sample, including its dangerous waste number.

(D) The sample is shipped, within ninety days of being generated or of being taken from a stream of previously generated waste, to a laboratory or testing facility which is exempt under (s) of this subsection or has an appropriate final facility permit or interim status; and

(E) The generator or sample collector maintains the following records for a period ending three years after completion of the treatability study:

(I) Copies of the shipping documents;

(II) A copy of the contract with the facility conducting the treatability study;

(III) Documentation showing:

(AA) The amount of waste shipped under this exemption;

(BB) The name, address, and EPA/state identification number of the laboratory or testing facility that received the waste;

(CC) The date the shipment was made; and

(DD) Whether or not unused samples and residues were returned to the generator.

(F) The generator reports the information required under (r)(ii)(E)(III) of this subsection in its annual report.

(ii) The department may grant requests, on a case-by-case basis, for quantity limits in excess of those specified in (r)(ii)(A) of this subsection, for up to an additional 500 kg of nonacute hazardous waste, 1 kg of acute hazardous waste, and 250 kg of soils, water, or debris contaminated with acute hazardous waste or for up to an additional 10,000 kg of wastes regulated only by this chapter and not regulated by 40 CFR Part 261, to conduct further treatability study evaluation when: There has been an equipment or mechanical failure during the conduct of a treatability study; there is a need to verify the results of previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment. The additional quantities allowed are subject to all the provisions in (r)(i) and (ii)(B) of this subsection. The generator or sample collector must apply to the department (~~in the state~~) where the sample is collected and provide in writing the following information:

(A) The reason the generator or sample collector requires additional quantity of sample for the treatability study evaluation and the additional quantity needed;

(B) Documentation accounting for all samples of dangerous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results of each treatability study;

(C) A description of the technical modifications or change in specifications which will be evaluated and the expected results;

(D) If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and

(E) Such other information that the department considers necessary.

(s) Samples undergoing treatability studies at laboratories and testing facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to chapter 70.105 RCW) are not subject to the requirements of this chapter, except WAC 173-303-050, 173-303-145, and 173-303-960 provided that the conditions of (s)(i) through (xiii) of this subsection are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to (s)(i) through (xiii) of this subsection. Where a group of MTUs are located at the same site, the limitations specified in (s)(i) through (xiii) of this subsection apply to the entire group of MTUs collectively as if the group were one MTU.

(i) No less than forty-five days before conducting treatability studies the laboratory or testing facility notifies the department in writing that it intends to conduct treatability studies under this subsection.

(ii) The laboratory or testing facility conducting the treatability study has an EPA/state identification number.

(iii) No more than a total of 250 kg of "as received" dangerous waste is subjected to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.

(iv) The quantity of "as received" dangerous waste stored at the laboratory or testing facility for the purpose of evaluation in treatability studies does not exceed 1000 kg, the total of which can include 500 kg of soils, water, or debris contaminated with acutely hazardous waste or 1 kg of acutely hazardous waste. This quantity limitation does not include:

(A) Treatability study residues; and

(B) Treatment materials (including nondangerous solid waste) added to "as received" dangerous waste.

(v) No more than ninety days have elapsed since the treatability study for the sample was completed, or no more than one year has elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs.

(vi) The treatability study does not involve the placement of dangerous waste on the land or open burning of dangerous waste.

(vii) The laboratory or testing facility maintains records for three years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:

(A) The name, address, and EPA/state identification number of the generator or sample collector of each waste sample;

- (B) The date the shipment was received;
- (C) The quantity of waste accepted;
- (D) The quantity of "as received" waste in storage each day;
- (E) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;

(F) The date the treatability study was concluded;

(G) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated TSD facility, the name of the TSD facility and its EPA/state identification number.

(viii) The laboratory or testing facility keeps, on-site, a copy of the treatability study contract and all shipping paper associated with the transport of treatability study samples to and from the facility for a period ending three years from the completion date of each treatability study.

(ix) The laboratory or testing facility prepares and submits a report to the department by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:

(A) The name, address, and EPA/state identification number of the laboratory or testing facility conducting the treatability studies;

(B) The types (by process) of treatability studies conducted;

(C) The names and addresses of persons for whom studies have been conducted (including their EPA/state identification numbers);

(D) The total quantity of waste in storage each day;

(E) The quantity and types of waste subjected to treatability studies;

(F) When each treatability study was conducted;

(G) The final disposition of residues and unused sample from each treatability study.

(x) The laboratory or testing facility determines whether any unused sample or residues generated by the treatability study are dangerous waste under WAC 173-303-070 and if so, are subject to the requirements of this chapter, unless the residues and unused samples are returned to the sample originator under the exemption in (r) of this subsection.

(xi) The laboratory or testing facility notifies the department by letter when it is no longer planning to conduct any treatability studies at the site.

(xii) The date the sample was received, or if the treatability study has been completed, the date of the treatability study, is marked and clearly visible for inspection on each container.

(xiii) While being held on site, each container and tank is labeled or marked clearly with the words "dangerous waste" or "hazardous waste." Each container or tank must also be marked with a label or sign which identifies the major risk(s) associated with the waste in the container or tank for employees, emergency response personnel and the public.

Note: If there is already a system in use that performs this function in accordance with local, state, or federal regulations, then such system will be adequate.

(t) Petroleum-contaminated media and debris that fail the test for the toxicity characteristic of WAC 173-303-090(8) (dangerous waste numbers D018 through D043 only) and are subject to the corrective action regulations under 40 CFR Part 280.

(u) Special incinerator ash (as defined in WAC 173-303-040).

(v) Wood ash that would designate solely for corrosivity by WAC 173-303-090 (6)(a)(iii). For the purpose of this exclusion, wood ash means ash residue and emission control dust generated from the combustion of untreated wood and wood fiber materials (i.e., wood chips, saw dust, paper, cardboard, tree stumps, untreated timbers, and untreated lumber). This exclusion allows for the use of over firing fuels (oils, gas, coal, and other fossil fuels) in the combustion process.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-072 Procedures and bases for exempting and excluding wastes. (1) Purpose and applicability.

(a) The purpose of this section is to describe the procedures that will be followed by generators and the department when wastes are considered for exemption or exclusion from the requirements of this chapter. Any person(s) whose waste is exempted or excluded will not be subject to the requirements of this chapter unless the department revokes the exemption or exclusion.

(b) Any person seeking a waste exemption must submit a petition to the department according to the procedures of WAC 173-303-910(3). A petition for exemption will be assessed against the applicable bases for exemption described in subsections (3), (4), and (5) of this section.

(c) Any persons seeking to categorically exclude a class of wastes must submit a petition to the department according to the procedures of WAC 173-303-910(4). A petition for exclusion will be assessed against the applicable bases for exclusion described in subsection (6) of this section.

(2) Department procedures. When considering, granting, or denying a petition for exemption or exclusion, the department shall follow the appropriate procedures described in WAC 173-303-910(1).

(3) Bases for exempting wastes. To successfully petition the department to exempt a waste, the petitioner must demonstrate to the satisfaction of the department that:

(a) He has been able to accurately describe the variability or uniformity of his waste over time, and has been able to obtain demonstration samples which are representative of his waste's variability or uniformity; and, either

(b) The representative demonstration samples of his waste are not designated DW or EHW by the dangerous waste criteria, WAC 173-303-100 (~~through 173-303-103~~); or

(c) It can be shown, from information developed by the petitioner through consultation with the department, that his waste does not otherwise pose a threat to public health or the environment. However, this basis for exemption is not applicable to wastes that exhibit any of the characteristics specified in WAC 173-303-090, except 173-303-090 (6)(a)(iii).

(4) Additional bases for exempting listed wastes. In addition to the demonstrations required by subsections (3)(a) and (b) of this section, for wastes listed in WAC 173-303-081 or 173-303-082 the petitioner must also demonstrate to the satisfaction of the department that his waste is not capable of posing a substantial present or potential threat to public health or the environment when improperly treated, stored, transported, disposed of or otherwise managed. The following factors will be considered by the department when assessing such a demonstration:

(a) Whether or not the listed waste contains the constituent or constituents which caused it to be listed. (For the purposes of this subsection, the constituents referred to will include any of the dangerous waste constituents listed in WAC 173-303-9905);

(b) The nature of the threat posed by the waste constituent(s);

(c) The concentration of the constituent(s) in the waste;

(d) The potential of the constituent(s) or any degradation product of the constituent(s) to migrate from the waste into the environment under the types of improper management considered in (h) of this subsection;

(e) The persistence of the constituent(s) or any degradation product of the constituent(s);

(f) The potential for the constituent(s) or any degradation product of the constituent(s) to degrade into nonharmful constituents and the rate of degradation;

(g) The degree to which the constituent(s) or degradation product of the constituent(s) bioaccumulates in ecosystems;

(h) The plausible types of improper management to which the waste could be subjected;

(i) The quantities of the waste generated at individual generation sites or on a state-wide basis. Under this factor, the department will also consider whether or not the waste is listed under WAC 173-303-081 as a discarded chemical product and occurs in a relatively pure form. Any waste discarded chemical product which exceeds the quantity exclusion limit specified in WAC 173-303-081(2) for that waste will not be exempted;

(j) The nature and severity of the public health and environmental damage that has occurred as a result of the improper management of wastes containing the constituent(s);

(k) Actions taken by other governmental agencies or regulatory programs based on the health or environmental threat posed by the waste or waste constituent(s); and

(l) Such other factors as may be appropriate.

(5) Bases for exempting wastes designated solely for the presence of chromium. The department will exempt a waste which is designated because of the presence of chromium if the petitioner can demonstrate that:

(a) The waste is not designated for any other characteristic under WAC 173-303-090, or for any of the criteria specified in WAC (~~(173-303-101, 173-303-102 or 173-303-103)~~) 173-303-100;

(b) The waste is not listed in WAC 173-303-081 or 173-303-082 due to the presence of any constituent from WAC 173-303-9905 other than chromium;

(c) The waste is typically and frequently managed in nonoxidizing environments or under nonoxidizing conditions; and

(d) Either of the following demonstrations can be made:

(i) The waste is generated from a process which uses trivalent chromium exclusively (or nearly exclusively), the process does not generate hexavalent chromium, and the chromium in the waste is exclusively (or nearly exclusively) trivalent chromium(~~(-or~~

~~(ii) Under test procedures approved by the department, the toxicity characteristic extract of the waste can be shown to contain less than five milligrams per liter (5 mg/L) of hexavalent chromium)).~~

(6) Bases for categorically excluding classes of wastes. This subsection does not apply to any waste class that includes hazardous waste regulated under 40 CFR Part 261. To successfully petition the department to categorically exclude a class of wastes, petitioners must demonstrate to the satisfaction of the department that the petition or petitions for exclusion:

(a) Accurately describe the class of wastes for which categorical exclusion is sought and show that the class of wastes does not include any wastes which would be regulated as hazardous waste under 40 CFR Part 261;

(b) Describe the variability or uniformity of the class of wastes over time and in relation to the individual wastes that comprise the class of waste;

(c) Discuss the generators and their individual wastes that belong to the class of wastes and, to the extent practical, any generators or individual wastes that, although belonging to the class of wastes, are not represented by the petition or petitions; and

(d) For each individual waste within the class of wastes, provide the demonstration described by subsection (3) of this section, except that where it is determined by consultation with the department to be impractical to provide the demonstration for each individual waste, the petitioner or petitioners shall provide the demonstration for samples of the individual wastes determined by consultation with the department to be representative of the class of wastes.

AMENDATORY SECTION (Amending Order DE 83-36, filed 4/18/84)

WAC 173-303-075 Certification of designation. (1) Purpose and applicability.

(a) The purpose of WAC 173-303-075 is to establish procedures by which the generator of a solid waste may apply to the department for a review of his waste, and for a determination of the designation of his waste. When a final determination is made, the department shall issue a certificate of designation which shall describe the status of the generator's waste with respect to the designation requirements of this chapter 173-303 WAC.

(b) The provisions of this section are applicable to any person who produces a solid waste, who may be subject to the requirements of this chapter 173-303 WAC as the generator of a dangerous waste and who wishes to obtain a certificate designating the status of his waste.

(2) Certification. Any person who produces a solid waste which could be a dangerous waste may apply to the department, in accordance with the guidelines published pursuant to WAC 173-303-075(4), for a certificate of designation for his waste.

(a) The certificate of designation will describe the status of the designation for a waste or wastes as follows:

(i) Either, the certificate will state that the waste or wastes listed in the certificate are designated dangerous waste; or

(ii) The certificate will state that the waste or wastes listed in the certificate are not designated dangerous waste under the designation lists or characteristics of WAC 173-303-080 through 173-303-090; or

(iii) The certificate will state that the waste or wastes listed in the certificate are not designated dangerous waste under the dangerous waste lists, characteristics or criteria, WAC 173-303-080 through ~~((173-303-103))~~ 173-303-100.

(b) The certificate of designation will, at a minimum, include the following information:

(i) The name, address, telephone number and, where applicable, the EPA/state identification number of the person to whom the certificate is issued;

(ii) A statement of the status of the designation of the waste or wastes listed in the certificate and, if designated, whether DW or EHW;

(iii) A listing of the waste or wastes for which the certificate has been issued;

(iv) The signature of the director or his designee;

(v) The date on which the certificate was issued; and

(vi) The period of time or conditions for which the certificate is valid.

(c) Once a certificate of designation has been issued to a person, that person is no longer subject to the designation procedures of WAC 173-303-080 through ~~((173-303-103))~~ 173-303-100, unless the period of time for which the certificate is valid expires, the conditions under which the certificate is valid change, or the department withdraws its certification of designation in accordance with WAC 173-303-075(5). If the certificate states that the waste or wastes listed in it are designated, then the person to whom the certificate is issued shall comply with all applicable requirements of this chapter 173-303 WAC. If the certificate states that the waste or wastes listed in it are not designated, then the person to whom the certificate is issued is not subject to the requirements of this chapter 173-303 WAC, unless the certificate becomes invalid or the department withdraws its certification.

(d) While an application for a certificate of designation is pending final action by the department, the person applying for certification must comply with all applicable requirements of this chapter 173-303 WAC.

(e) While a certificate of designation is being amended, in accordance with WAC 173-303-075(5), the certificate shall remain in effect except for those parts of the certificate which the department specifically suspends.

(3) Designation. Determination of the status of designation for a waste or wastes for which a certificate of designation is being sought shall follow the procedures set forth in this subsection.

(a) A waste shall be certified as a dangerous waste if it is designated under any of the methods set forth in WAC 173-303-080 through ~~((173-303-103))~~ 173-303-100.

(b) A waste shall be certified as not a dangerous waste if:

(i) It has only been checked against WAC 173-303-080 through 173-303-090 (lists and characteristics) and it is not designated; or

(ii) It has been checked against the dangerous waste lists, characteristics and criteria, WAC 173-303-080 through ~~((173-303-103))~~ 173-303-100, and it is not designated.

(4) Application. Any person who wishes to apply for a certificate of designation shall do so according to the certification guidelines published by and available from the department. The department shall follow the procedures specified in the certification guidelines when considering an application for a certificate.

(5) Review of certification. Review of and changes to or withdrawal of certificates of designation shall be performed by the department according to the procedures specified in the certification guidelines, available from the department. At a minimum, the certification guidelines provide for the following procedures:

(a) The department will periodically review each certificate of designation to insure that it is current and accurately states the proper designation for the waste or wastes listed on the certificate.

(b) The department may amend, or any person with a certificate of designation may request the department to amend, any certificate in the event that changes to the certificate are necessary to keep it current or maintain its accuracy. The person will obtain concurrence of the department if he wishes to amend his certificate to reflect changes in the information on the certificate (e.g., new wastes, changes in waste properties, changes of address, etc.).

(c) The department reserves the authority to withdraw any certificate of designation if there is reason to believe that the certificate results in a threat to public health or the environment. If a certificate is withdrawn, then the waste or wastes listed on the certificate shall be subject to all applicable requirements of this chapter 173-303 WAC.

AMENDATORY SECTION (Amending Order DE-87-4, filed 6/26/87)

WAC 173-303-082 Dangerous waste sources. (1) The dangerous waste sources list appears in WAC 173-303-9904. Any waste which is listed or which is a residue from the management of a waste listed on the dangerous waste sources list shall be designated a dangerous waste, and shall be identified as DW, except that WAC 173-303-9904 includes several footnotes describing circumstances under which certain dangerous waste sources should be designated EHW rather than DW.

(2) Quantity exclusion limit. A person whose waste is listed in WAC 173-303-9904 (including residues from the management of such wastes) shall be a dangerous waste generator (and may not be considered a small quantity generator as provided in WAC 173-303-070(8)) if the amount of his waste exceeds the following quantity exclusion limits:

(a) 2.2 lbs. (1 kg) per month or per batch for wastes listed with the dangerous waste numbers F020, F021, F022, F023, F026, or F027. For the purposes of this chapter, the term "acutely hazardous waste" shall include dangerous waste sources F020, F021, F022, F023, F026, and F027;

(b) 220 lbs. (100 kg) per month or per batch of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water of a waste listed in (a) of this subsection; or

(c) 220 lbs. (100 kg) per month or per batch for all other wastes.

(3) Care should be taken in the proper designation of these wastes and of mixtures of these wastes and solid wastes. If a person mixes a solid waste with a waste that would be designated as a dangerous waste source under this section, then the entire mixture shall be designated as a dangerous waste source. The mixture shall have the same designation (DW or EHW), and shall have the same dangerous waste number as the dangerous waste source which was mixed with the solid waste.

(4) For the purposes of this section, any dangerous waste source listed in WAC 173-303-9904 which lists more than one chemical compound must be designated as a dangerous waste if it contains any one or any combination of the listed chemical compounds. For example, a spent nonhalogenated solvent containing both xylene and acetone must be designated as dangerous waste source F003.

(5) 40 CFR Part 261 Appendix VII Basis for Listing Hazardous Waste is adopted by reference.

AMENDATORY SECTION (Amending Order DE 81-33, filed 2/10/82)

WAC 173-303-083 ((Infectious dangerous wastes.))
(Reserved.)

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-084 ((Dangerous waste mixtures. (1) Purpose. It is the purpose of this section to describe the means for designating a waste mixture containing dangerous wastes which are not listed in WAC 173-303-081 through 173-303-083.

(2) **References.** The National Institute for Occupational Safety and Health's (NIOSH) Registry of Toxic Effects of Chemical Substances (Registry) is adopted by reference. The table in the United States EPA's regulations 40 CFR Table 302.4 (Spill Table) is adopted by reference.

(3) **Waste mixture defined.** For the purposes of this section, a waste mixture shall be any waste about which some or all of its constituents and concentrations are known, and which has not been designated as:

(a) A discarded chemical product under WAC 173-303-081;

(b) A dangerous waste source under WAC 173-303-082;

(c) An infectious dangerous waste under WAC 173-303-083; or

(d) A dangerous waste that has been designated by the criteria of WAC 173-303-101 through 173-303-103.

(4) A person who has a waste mixture shall use data which is available to him, and, when such data is inadequate for the purposes of this section, shall refer to the NIOSH Registry and/or to the EPA Spill Table to determine:

(a) Toxicity data or category for each known constituent in his waste;

(b) Whether or not each known constituent of his waste is a halogenated hydrocarbon or a polycyclic aromatic

hydrocarbon with greater than three rings and less than seven rings; and,

(c) Whether or not each known constituent of his waste is an International Agency for Research on Cancer (IARC) human or animal, positive or suspected carcinogen.

(5) Toxicity.

(a) If a person has toxic constituents in his waste, he shall determine the toxic category for each known toxic constituent. The toxic category for each constituent may be determined directly from EPA'S Spill Table, or by obtaining data from the NIOSH Registry and checking this data against the toxic category table, below. If data is available for more than one of the four toxicity criteria (aquatic, oral, inhalation, or dermal), then the data of severest toxicity shall be used, and the most acutely toxic category shall be assigned to the constituent. If EPA'S Spill Table and the NIOSH Registry do not agree on the same category, then the category arrived at using the NIOSH Registry will take precedence. If toxicity data for a constituent cannot be found in EPA'S Spill Table, NIOSH Registry, or other source reasonably available to a person, then he need not determine the toxic category for that constituent.

TOXIC CATEGORY TABLE

| Category | TL _{M₀₆} (Fish) or, Aquatic (Fish) | | Inhalation (Rat) | | Dermal (Rabbit) | |
|----------|---|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|
| | LC ₅₀ (ppm) | LD ₅₀ (mg/kg) | LC ₅₀ (mg/L) | LD ₅₀ (mg/kg) | LC ₅₀ (mg/L) | LD ₅₀ (mg/kg) |
| X | <.1 | <.5 | <.02 | <.2 | <.2 | <.2 |
| A | .1 - 1 | .5 - 5 | .02 - .2 | .2 - 2 | 2 - 20 | 20 - 200 |
| B | 1 - 10 | 5 - 50 | .2 - 2 | 2 - 20 | 20 - 200 | 200 - 2000 |
| C | 10 - 100 | 50 - 500 | 2 - 20 | 20 - 200 | 200 - 2000 | 2000 - 20,000 |
| D | 100 - 1000 | 500 - 5000 | 20 - 200 | 200 - 2000 | 2000 - 20,000 | 20,000 - 200,000 |

(b) A person whose waste mixture contains one or more toxic constituents shall determine the equivalent concentration for his waste from the following formula:

$$\text{Equivalent Concentration (\%)} = \frac{\sum X\%}{10} + \frac{\sum A\%}{100} + \frac{\sum B\%}{1000} + \frac{\sum C\%}{10000} + \frac{\sum D\%}{100000}$$

where $\sum(X, A, B, C, \text{ or } D) \%$ is the sum of all the concentration percentages for a particular toxic category.

Example 1. A person's waste mixture contains: Aldrin (X Category) .01%; Diuron (B Category) 1%; Benzene (C Category) 4%; Phenol (C Category) 2%; Cyclohexane (C Category) 5%; Water (nontoxic) 87%. His equivalent concentration (E.C.) would be:

$$\text{E.C. (\%)} = \frac{0\%}{10} + \frac{1\%}{100} + \frac{(4\% + 2\% + 5\%)}{1000} + \frac{0\%}{10000} = 0.01\% + 0\% + 0.01\% + 0.011\% + 0\% = 0.031\%$$

So his equivalent concentration equals .031%.

(c) A person whose waste mixture contains toxic constituents shall determine his designation from the toxic dangerous waste mixtures graph in WAC 173-303-9906 by finding the equivalent concentration percentage for his waste along the abscissa, finding his total waste mixture quantity along the ordinate, and plotting the point on the graph where the horizontal line drawn from his total waste mixture

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quantity intersects the vertical line drawn from his waste mixture's equivalent concentration. If the plotted point is in the area marked DW, he shall designate his waste as DW; if the plotted point is in the area marked EHW, he shall designate his waste as EHW.

(d) ~~If a person knows only some of the toxic constituents in his waste mixture, or only some of the constituent concentrations, and if his waste is undesignated for those known constituents or concentrations, then his waste is not designated for toxicity under this subsection.~~

(e) ~~Toxic dangerous waste mixtures graph. The toxic dangerous waste mixtures graph appears in WAC 173-303-9906.~~

(6) ~~Persistence.~~

(a) ~~A person whose waste mixture contains one or more halogenated hydrocarbons for which the concentrations are known shall determine his total halogenated hydrocarbon concentration by summing the concentration percentages for all of those halogenated hydrocarbons for which he knows the concentrations in his waste mixture.~~

~~Example 2. A person's waste mixture contains: Carbon tetrachloride .009%; DDT .012%; 1,1,1 trichloroethylene .02%. His total halogenated hydrocarbon concentration would be:~~

$$\text{Total HH Concentration (\%)} = .009\% + .012\% + .02\% = .041\%$$

(b) ~~A person whose waste mixture contains one or more polycyclic aromatic hydrocarbons with more than three rings and less than seven rings for which the concentrations are known shall determine his total polycyclic aromatic hydrocarbon concentration by summing the concentration percentages for all of those polycyclic aromatic hydrocarbons with more than three rings and less than seven rings about which he knows the concentration in his waste mixture.~~

~~Example 3. A person's waste mixture contains: Chrysene .08%; 3, 4 benzopyrene 1.22%. His total polycyclic aromatic hydrocarbon concentration would be:~~

$$\text{Total PAH Concentration (\%)} = .08\% + 1.22\% = 1.3\%$$

(e) ~~A person whose waste mixture contains halogenated hydrocarbons shall determine his designation from the persistent dangerous waste mixtures graph in WAC 173-303-9907 by finding the total halogenated hydrocarbon concentration for his waste along the abscissa, finding his total waste mixture quantity along the ordinate, and plotting the point on the graph where the horizontal line drawn from his total waste mixture quantity intersects the vertical line drawn from his waste mixture's total halogenated hydrocarbon concentration. If the plotted point is in the area marked DW, then he shall designate his waste DW; if the plotted point is in the area marked EHW, then he shall designate his waste EHW.~~

(d) ~~A person whose waste mixture contains polycyclic aromatic hydrocarbons with more than three rings and less than seven rings shall determine his designation from the persistent dangerous waste mixtures graph in WAC 173-303-9907 by finding the total polycyclic aromatic hydrocarbon concentration of his waste along the abscissa, finding his total waste mixture quantity along the ordinate, and plotting the point on the graph where the horizontal line drawn from his total waste mixture quantity intersects the vertical line drawn from his waste mixture's total polycyclic aromatic~~

~~hydrocarbon concentration. If the plotted point is in the area marked EHW, then he shall designate his waste EHW. If the plotted point is outside of the area marked EHW, then his waste is not designated.~~

(e) ~~If a person knows only some of the persistent constituents in his waste mixture, or only some of the constituent concentrations, and if his waste is undesignated for those known constituents or concentrations, then his waste is not designated for persistence under this subsection.~~

(f) ~~Persistent dangerous waste mixtures graph. The persistent dangerous waste mixtures graph appears in WAC 173-303-9907.~~

(7) ~~Carcinogens. Any person whose waste mixture contains one or more IARC human or animal, sufficient or limited carcinogen(s) shall designate his waste DW if:~~

(a) ~~The total concentration of carcinogen(s) in his waste exceeds 1.0% of the waste quantity; and~~

(b) ~~The monthly or batch waste quantity exceeds 220 lbs. (100 kg).~~

(c) ~~For designation purposes, any IARC human or animal, sufficient or limited carcinogen that is so rated because of studies involving implantation of the substance into test animals as sole cause for the IARC rating, shall not be carcinogenic. This additional information is available in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans.~~

(8) ~~Assigning dangerous waste numbers. A person whose waste is a dangerous waste mixture shall assign a dangerous waste number from the generic dangerous waste numbers table in WAC 173-303-104, Generic dangerous waste numbers. He shall assign the dangerous waste number from the table which corresponds to the designation for his dangerous waste.) Reserved.~~

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-090 Dangerous waste characteristics.

(1) Purpose. The purpose of this section is to set forth characteristics which a solid waste might exhibit and which would cause that waste to be a dangerous waste.

(2) Representative samples. The department will consider a sample obtained using any of the applicable sampling methods described in WAC 173-303-110(2), sampling and testing methods, to be a representative sample.

(3) Equivalent test methods. The testing methods specified in this section shall be the only acceptable methods, unless the department approves an equivalent test method in accordance with WAC 173-303-910(2).

(4) Quantity exclusion limit. A solid waste is a dangerous waste if it exhibits one or more of the dangerous waste characteristics described in subsections (5), (6), (7), and (8) of this section. If a person's solid waste exhibits one or more of these characteristics, then he shall be a dangerous waste generator (and may not be considered a small quantity generator as provided in WAC 173-303-070(8)) if the quantity of his waste exceeds 220 lbs. (100 kg) per month or per batch.

(5) Characteristic of ignitability.

(a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:

(i) It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume, and has a flash point less than 60 degrees C (140 degrees F), as determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ASTM Standard D-93-79 or D-93-80, or a Setaflash Closed Cup Tester, using the test method specified in ASTM Standard D-3278-78;

(ii) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard;

(iii) It is an ignitable compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described in that regulation; or,

(iv) It is an oxidizer as defined in 49 CFR 173.151.

(b) A solid waste that exhibits the characteristic of ignitability(~~(, but is not designated as a dangerous waste under any of the dangerous waste lists, WAC 173-303-080 through 173-303-084, or dangerous waste criteria, WAC 173-303-101 through 173-303-103,))~~) shall be designated DW, and shall be assigned the dangerous waste number of D001.

(6) Characteristic of corrosivity.

(a) A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has any one or more of the following properties:

(i) It is aqueous, and has a pH less than or equal to 2, or greater than or equal to 12.5, (~~as determined by a pH meter~~) using Method ~~((5-2))~~ 9040 or 9041 in *Test Methods for ((the Evaluation of)) Evaluating Solid Waste (SW 846), Physical/Chemical Methods*, available from the department;

(ii) It is liquid, and corrodes steel (SAE 1020) at a rate greater than 0.250 inch (6.35 mm) per year at a test temperature of 55 degrees C (130 degrees F) as determined by the test method specified in NACE (National Association of Corrosion Engineers) Standard TM-01-69 as standardized in *Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods*. The NACE Standard is available from the department; or

(iii) It is solid or semi-solid, and when mixed with an equal weight of water results in a solution, the liquid portion of which has the property specified in (a)(i) of this subsection. Procedures for preparing and extracting the solution and liquid are described in the test procedures of WAC 173-303-110 (3)(a).

(b) A solid waste that exhibits the characteristic of corrosivity(~~(, but is not designated as a dangerous waste under any of the dangerous waste lists, WAC 173-303-080 through 173-303-084, or dangerous waste criteria, WAC 173-303-101 through 173-303-103,))~~) shall be designated DW, and shall be assigned the dangerous waste number of D002.

(7) Characteristic of reactivity.

(a) A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has any of the following properties:

(i) It is normally unstable and readily undergoes violent change without detonating;

(ii) It reacts violently with water;

(iii) It forms potentially explosive mixtures with water;

(iv) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment;

(v) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5 can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment;

(vi) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement;

(vii) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure; or

(viii) It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53, or a Class B explosive as defined in 49 CFR 173.88.

(b) A solid waste that exhibits the characteristic of reactivity(~~(, but is not designated as a dangerous waste under any of the dangerous waste lists, WAC 173-303-080 through 173-303-084, or dangerous waste criteria, WAC 173-303-101 through 173-303-103,))~~) shall be designated DW, and shall be assigned the dangerous waste number of D003.

(8) Toxicity characteristic.

(a) A solid waste exhibits the toxicity characteristic if, using the *Toxicity Characteristic Leaching Procedure* (TCLP, found in Appendix II of 40 CFR Part 261 or available upon request from the department) or equivalent methods approved by the department under WAC 173-303-110(5), the extract from a representative sample of the waste contains any of the contaminants listed in the toxicity characteristic list in (c) of this subsection, at concentrations equal to or greater than the respective value given in the list. When the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in the TCLP, is considered to be the extract for the purposes of this subsection.

(b) A solid waste that exhibits the toxicity characteristic(~~(, but is not designated as a dangerous waste under any of the dangerous waste lists, WAC 173-303-080 through 173-303-084, or dangerous waste criteria, WAC 173-303-101 through 173-303-103,))~~) has the dangerous waste number specified in the list which corresponds to the toxic contaminant causing it to be dangerous.

(c) Toxicity characteristic list. Two levels of concentration are established for the contaminants listed. Any waste containing one or more contaminants with concentrations at or above the EHW threshold shall cause that waste to be designated EHW. Any waste containing contaminants which occur at concentrations at or above the DW threshold only (i.e., no EHW contaminants), shall be designated DW.

TOXICITY CHARACTERISTICS LIST:

Maximum Concentration of Contaminants for the Toxicity Characteristic

| Dangerous Waste Number | Contaminant | (Chemical Abstracts Services #) | EHW (mg/L) | DW (mg/L) |
|------------------------|-------------|---------------------------------|------------|-----------|
| D004 | Arsenic | (7440-38-2) | 500 | 5.0 |
| D005 | Barium | (7440-39-3) | 10,000 | 100.0 |
| D018 | Benzene | (71-43-2) | 50 | 0.5 |
| D006 | Cadmium | (7440-43-9) | 100 | 1.0 |

| | | | | | |
|------|------------------------------|-------------|--------|--------|-------|
| D019 | Carbon tetrachloride | (56-23-5) | 50 | 0.5 | |
| D020 | Chlordane | (57-74-9) | 3.0 | 0.03 | |
| D021 | Chlorobenzene | (108-90-7) | 10,000 | 100.0 | |
| D022 | Chloroform | (67-66-3) | 600 | 6.0 | |
| D007 | Chromium | (7440-47-3) | 500 | 5.0 | |
| D023 | o-Cresol | (95-48-7) | /1/ | 20,000 | 200.0 |
| D024 | m-Cresol | (108-39-4) | /1/ | 20,000 | 200.0 |
| D025 | p-Cresol | (106-44-5) | /1/ | 20,000 | 200.0 |
| D026 | Cresol | /1/ | | | 200.0 |
| D016 | 2,4-D | (94-75-7) | 1,000 | 10.0 | |
| D027 | 1,4-Dichlorobenzene | (106-46-7) | 750 | 7.5 | |
| D028 | 1,2-Dichloroethane | (107-06-2) | 50 | 0.5 | |
| D029 | 1,1-Dichloroethylene | (75-35-4) | 70 | 0.7 | |
| D030 | 2,4-Dinitrotoluene | (121-14-2) | /2/ | 13 | 0.13 |
| D012 | Endrin | (72-20-8) | 2 | 0.02 | |
| D031 | Heptachlor (and its epoxide) | (76-44-8) | 0.8 | 0.008 | |
| D032 | Hexachlorobenzene | (118-74-1) | /2/ | 13 | 0.13 |
| D033 | Hexachlorobutadiene | (87-68-3) | 50 | 0.5 | |
| D034 | Hexachloroethane | (67-72-1) | 300 | 3.0 | |
| D008 | Lead | (7439-92-1) | 500 | 5.0 | |
| D013 | Lindane | (58-89-9) | 40 | 0.4 | |
| D009 | Mercury | (7439-97-6) | 20 | 0.2 | |
| D014 | Methoxychlor | (72-43-5) | 1,000 | 10.0 | |
| D035 | Methyl ethyl ketone | (78-93-3) | 20,000 | 200.0 | |
| D036 | Nitrobenzene | (98-95-3) | 200 | 2.0 | |
| D037 | Pentachlorophenol | (87-86-5) | 10,000 | 100.0 | |
| D038 | Pyridine | (110-86-1) | /2/ | 500 | 5.0 |
| D010 | Selenium | (7782-49-2) | 100 | 1.0 | |
| D011 | Silver | (7440-22-4) | 500 | 5.0 | |
| D039 | Tetrachloroethylene | (127-18-4) | 70 | 0.7 | |
| D015 | Toxaphene | (8001-35-2) | 50 | 0.5 | |
| D040 | Trichloroethylene | (79-01-6) | 50 | 0.5 | |
| D041 | 2,4,5-Trichlorophenol | (95-95-4) | 40,000 | 400.0 | |
| D042 | 2,4,6-Trichlorophenol | (88-06-2) | 200 | 2.0 | |
| D017 | 2,4,5-TP (Silvex) | (93-72-1) | 100 | 1.0 | |
| D043 | Vinyl chloride | (75-01-4) | 20 | 0.2 | |

/1/ If 0-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The DW level for total cresol is 200 mg/L and the EHW level for total cresol is 20,000 mg/L.

/2/ Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

AMENDATORY SECTION (Amending Order DE 83-36, filed 4/18/84)

WAC 173-303-100 Dangerous waste criteria. (1) Purpose. The purpose of this section is to describe methods for determining if a solid waste is a dangerous waste by the criteria set forth in this section. The dangerous waste criteria consist of:

- (a) Toxic dangerous wastes(~~(, WAC 173-303-101)~~);
- (b) Persistent dangerous wastes(~~(, WAC 173-303-102)~~);
- and
- (c) Carcinogenic dangerous wastes(~~(, WAC 173-303-103, and~~
- (d) ~~Dangerous waste characteristics, WAC 173-303-090).~~

(2) ~~((Applicability. Any person who has established that his waste meets any of the dangerous waste criteria is a dangerous waste generator, and shall comply with the applicable requirements set forth in this chapter. A person shall use the dangerous waste criteria to designate his waste pursuant to WAC 173-303-070 (3)(b), or (4), or to exempt his waste pursuant to WAC 173-303-072, or to otherwise~~

~~establish the risk which his waste presents to public health and the environment.))~~ References. The National Institute for Occupational Safety and Health's (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS), Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; Health Effects Assessment Summary Table, #PB 93-921199 and Integrated Risk Information System, #PB 915-913-31, National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161; and IARC Monographs, Oxford University Press, 2001 Evans Road, Cary, N.C. 27513 are adopted by reference.

(3) A person shall use data which is available to him, and, when such data is inadequate for the purposes of this section, shall refer to the NIOSH RTECS to determine:

(a) Toxicity data or toxic category for each known constituent in the waste;

(b) Whether or not each known constituent of the waste is a halogenated hydrocarbon or a polycyclic aromatic hydrocarbon with greater than three rings and less than seven rings.

(4) Quantity exclusion limit. A solid waste is a dangerous waste if it meets one or more of the dangerous waste criteria described in subsections (5), (6), and (7) of this section. If a person's solid waste meets one or more of these criteria then he shall be a dangerous waste generator (and may not be considered a small quantity generator as provided in WAC 173-303-070(8)) if the quantity of the waste exceeds the following quantity exclusion limits:

(a) For toxic dangerous wastes designated as EHW (WT01), the quantity exclusion limit is 2.2 lbs. per month. NOTE: To be designated as EHW (WT01) toxic dangerous wastes must be generated above a specified quantity, which varies dependent upon the degree of toxicity, and which may be greater than 2.2 lbs.

(b) For all other wastes designating under this section the quantity exclusion limit is 220 lbs. (100 kg) per month or per batch.

(5) Toxicity criteria. Except as provided in WAC 173-303-070 (4) or (5), a person shall determine if a solid waste meets the toxicity criteria under this section by following either the instructions for book designation, when his knowledge of the waste is sufficient, or by testing the waste using the biological testing methods adopted under WAC 173-303-110(3).

(a) Except as provided in WAC 173-303-070 (4) or (5), if a person knows only some of the toxic constituents in the waste or only some of the constituent concentrations, and if the waste is undesignated for those known constituents or concentrations, then the waste is not designated for toxicity under this subsection.

(b) Book designation procedure. A person may determine if a waste meets the toxicity criteria by following the book designation instructions as follows:

(i) A person shall determine the toxic category for each known constituent. The toxic category for each constituent may be determined from available data, or by obtaining data from the NIOSH RTECS and checking this data against the toxic category table, below. If data is available for more than one of the four toxicity criteria (aquatic, oral, inhalation, or dermal), then the data indicating severest toxicity shall be used, and the most acutely toxic category shall be assigned to the constituent. If the NIOSH RTECS or other data

sources do not agree on the same category, then the category arrived at using the NIOSH RTECS will be used to determine the toxic category. If toxicity data for a constituent cannot be found in the NIOSH RTECS, or other source reasonably available to a person, then the toxic category need not be determined for that constituent.

TOXIC CATEGORY TABLE

| Toxic Category | TLm ₉₆ (Fish or, Aquatic (Fish)) | Oral (Rat) LD ₅₀ (mg/kg) | Inhalation (Rat) LC ₅₀ (mg/L) | Dermal (Rabbit) LD ₅₀ (mg/kg) |
|----------------|---|-------------------------------------|--|--|
| | LC ₅₀ (ppm) | | | |
| X | <.1 | <.5 | <.02 | <.2 |
| A | .1 - <.1 | .5 - <.5 | .02 - <.2 | 2 - <20 |
| B | 1 - <10 | 5 - <50 | 2 - <2 | 20 - <200 |
| C | 10 - <100 | 50 - <500 | 2 - <20 | 200 - <2000 |
| D | 100 - 1000 | 500 - 5000 | 20 - 200 | 2000 - 20,000 |

(ii) A person whose waste contains one or more toxic constituents shall determine the equivalent concentration for the waste from the following formula:

$$\text{Equivalent Concentration(\%)} = \sum X\% \pm \frac{\sum A\%}{10} + \frac{\sum B\%}{100} + \frac{\sum C\%}{1000} + \frac{\sum D\%}{10,000}$$

where $\sum(X,A,B,C, \text{ or } D)\%$ is the sum of all the concentration percentages for a particular toxic category.

Example 1. A person's waste contains: Aldrin (X Category) - .01%; Diuron (B Category) - 1%; Benzene (C Category) - 4%; Phenol (C Category) - 2%; Cyclohexane (C Category) - 5%; Water (nontoxic) - 87%. The equivalent concentration (E.C.) would be:

$$\begin{aligned} \text{E.C. (\%)} &= \frac{.01\%}{10} + \frac{0\%}{100} + \frac{1\%}{100} + \frac{(4\% + 2\% + 5\%)}{1000} + \frac{0\%}{10,000} \\ &= .01\% + 0\% + .01\% + .011\% + 0\% = .031\% \end{aligned}$$

So the equivalent concentration equals .031%.

(iii) A person whose waste contains toxic constituents shall determine its designation from the toxic dangerous waste graph in WAC 173-303-9906 by finding the equivalent concentration percentage for the waste along the abscissa, finding the total waste quantity along the ordinate, and plotting the point on the graph where the horizontal line drawn from the total waste quantity intersects the vertical line drawn from the waste's equivalent concentration. If the plotted point is in the area marked DW, the person shall designate the waste as DW, and shall assign the dangerous waste number of WT02; if the plotted point is in the area marked EHW, the person shall designate the waste as EHW, and shall assign the dangerous waste number of WT01.

(iv) Toxic dangerous waste graph. The toxic dangerous waste graph appears in WAC 173-303-9906.

(c) Designation from bioassay data. A person may determine if a waste meets the toxicity criteria by following the bioassay designation instructions as follows:

(i) A person shall establish the toxicity category range (D category toxicity, or C category or greater toxicity) of a waste by means of the biological testing methods (bioassay) adopted under WAC 173-303-110(3).

(ii) A person shall designate a waste according to the toxic dangerous waste designation table below.

TOXIC DANGEROUS WASTE DESIGNATION TABLE

| If your waste's toxicity range is . . . | And your monthly or batch waste quantity is . . . | Then your waste's designation, and waste # are . . . |
|---|---|--|
| D Category: (LC ₅₀ 1000 mg/L to 100 mg/L, or LD ₅₀ 5000 mg/kg to 500 mg/kg) | Any quantity | DW, WT02 |
| X, A, B, or C (LC ₅₀ less than 100 mg/L, or LD ₅₀ less than 500 mg/kg) | Less than 220 lbs. (100 kg) | DW, WT02 |
| | Greater than or equal to 220 lbs. (100 kg) | EHW, WT01 |

(d) If the designation acquired from book designation and bioassay data do not agree, then bioassay data will be used to designate a waste. If a waste is designated as DW or EHW following the book designation procedure, a person may test the waste by means of the biological testing methods (bioassay) adopted under WAC 173-303-110(3), using both static acute fish and acute oral rat methods, to demonstrate that the waste is not a dangerous waste or should be designated as DW and not EHW.

(e) A waste designated as DW by toxicity criteria shall be assigned the dangerous waste number of WT02. A waste designated as EHW by toxicity criteria shall be assigned the dangerous waste number of WT01.

(6) Persistence criteria. For the purposes of this section, persistent constituents are chemical compounds which are either halogenated hydrocarbons (HH), or polycyclic aromatic hydrocarbons (PAH), as defined under WAC 173-303-040. Except as provided in WAC 173-303-070 (4) or (5), a person may determine the identity and concentration of persistent constituents by either applying knowledge of the waste or by testing the waste according to the chemical testing methods for complying with the dangerous waste regulation adopted under WAC 173-303-110(3).

(a) Except as provided in WAC 173-303-070 (4) and (5), if a person knows only some of the persistent constituents in the waste, or only some of the constituent concentrations, and if the waste is undesignated for those known constituents or concentrations, then the waste is not designated for persistence under this subsection.

(b) When a waste contains one or more halogenated hydrocarbons (HH) for which the concentrations are known, the total halogenated hydrocarbon concentration shall be determined by summing the concentration percentages for all of the halogenated hydrocarbons for which the concentrations are known.

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Example 2. A waste contains: Carbon tetrachloride - .009%; DDT - .012%; 1,1,1 - trichloroethylene - .020%. The total halogenated hydrocarbon concentration would be:

$$\text{Total HH Concentration (\%)} = .009\% + .012\% + .020\% = .041\%$$

(c) A person whose waste contains one or more polycyclic aromatic hydrocarbons (PAH) with more than three rings and less than seven rings for which the concentrations are known shall determine the total polycyclic aromatic hydrocarbon concentration by summing the concentration percentages for all of those polycyclic aromatic hydrocarbons with more than three rings and less than seven rings about which he knows the concentration in the waste.

Example 3. A person's waste contains: Chrysene - .08%; 3,4 - benzo[a]pyrene - 1.22%. The total polycyclic aromatic hydrocarbon concentration would be:

$$\text{Total PAH Concentration (\%)} = .08\% + 1.22\% = 1.30\%$$

(d) A person whose waste contains halogenated hydrocarbons and/or polycyclic aromatic hydrocarbons shall determine its designation from the persistent dangerous waste table or persistent dangerous waste criteria graph WAC 173-303-9907.

PERSISTENT DANGEROUS WASTE TABLE

| <u>If your waste contains...</u> | <u>At a total concentration level of...</u> | <u>Then your waste's designation, and waste # are...</u> |
|---|---|--|
| <u>Halogenated Hydrocarbons (HH)</u> | <u>0.01% to 1.0% greater than 1.0%</u> | <u>DW, WP02 EHW, WFOI</u> |
| <u>Polycyclic Aromatic Hydrocarbons (PAH)</u> | <u>greater than 1.0%</u> | <u>EHW*, WFOI</u> |

* No DW concentration level for PAH.

(7) Carcinogenic criteria.

(a) Criteria. For the purposes of this section, a carcinogenic substance shall be a substance which has sufficient or limited evidence as a human or animal carcinogen as listed in both:

(i) The National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS) as an International Agency for Research on Cancer (IARC) carcinogen; and

(ii) The Integrated Risk Information System (IRIS) or Health Effects Assessment Summary Table (HEAST).

(iii) A list of carcinogenic substances is available from the department. Any IARC identified substance that is an inorganic, respiratory carcinogen shall be a carcinogenic substance only if it occurs in a friable format (i.e., if it is in a waste which easily crumbles and forms dust which can be inhaled). Any IARC human or animal, sufficient or limited carcinogen that is so rated because of studies involving implantation of the substance into test animals as the sole cause for the carcinogenic IARC rating, shall not be a carcinogenic substance. This additional information is available in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans.

(b) Except as provided in WAC 173-303-070 (4) and (5), if a person knows only some of the carcinogenic substances in the waste, or only some of the substance concentrations, and if the waste is undesignated for those

known substances or concentrations, then the waste is not designated for carcinogens under this subsection.

(c) Designation. A solid waste that contains one or more carcinogenic substances shall be designated DW and assigned the waste number of WC02 if either,

(i) The concentration of any one carcinogenic substance exceeds 0.01% of the waste quantity; or

(ii) The total concentration summed for all carcinogenic substances exceeds 1.0% of the waste quantity.

AMENDATORY SECTION (Amending Order DE-87-4, filed 6/26/87)

WAC 173-303-101 ((Toxic dangerous wastes. (1) Purpose. This section describes methods for determining the toxicity of a waste and the criteria by which a toxic waste shall be designated DW or EHW.

(2) Categorization.

(a) The following toxic category table establishes categories (X, A, B, C, or D) for particular toxicity levels. The X category is the most toxic, and the D category is least toxic. Substances which have toxicity levels below the D category are generally considered to be nontoxic.

TOXIC CATEGORY TABLE

| <u>Category</u> | <u>TLm₀₆ (Fish) or, Aquatic (Fish)</u> | | <u>Inhalation (Rat)</u> | | <u>Dermal (Rabbit)</u> |
|-----------------|---|-------------------------------|------------------------------|-------------------------------|------------------------|
| | <u>LC₅₀(ppm)</u> | <u>LD₅₀(mg/kg)</u> | <u>LC₅₀(mg/L)</u> | <u>LD₅₀(mg/kg)</u> | |
| <u>X</u> | <u><.1</u> | <u><.5</u> | <u><.02</u> | <u><.2</u> | |
| <u>A</u> | <u>.1 1</u> | <u>.5 5</u> | <u>.02 .2</u> | <u>2 20</u> | |
| <u>B</u> | <u>1 10</u> | <u>5 50</u> | <u>.2 2</u> | <u>20 200</u> | |
| <u>C</u> | <u>10 100</u> | <u>50 500</u> | <u>2 20</u> | <u>200 2000</u> | |
| <u>D</u> | <u>100 1000</u> | <u>500 5000</u> | <u>20 200</u> | <u>2000 20,000</u> | |

(b) In order to determine the toxic categories for the constituents in his waste, a person must obtain toxicity data on the constituents either through knowledge he has about his waste, or by obtaining data from the two sources referenced in subsection (3)(a) and (b) of this section; (EPA's Spill Table and NIOSH Registry). If data obtained for a constituent is available for more than one of the toxicity criteria (aquatic, oral, inhalation, or dermal), then the data of severest toxicity shall be used to assign the most acutely toxic category to the waste constituent.

(3) Establishing waste toxicity. A person shall establish the toxicity of his waste or waste constituents by applying his knowledge about his waste, or by using the following information sources or testing methods, or all of these:

(a) The National Institute for Occupational Safety and Health (NIOSH) document Registry of Toxic Effects of Chemical Substances (Registry);

(b) The United States EPA's regulation 40 CFR Table 302.4 (Spill Table); and

(c) The bioassay testing methods adopted under WAC 173-303-110(3).

(4) Book designation procedure.

(a) A person may use the book designation procedure described in this paragraph only if:

(i) He knows the toxic categories (as set forth in subsection (2) of this section) for the significant toxic constituents in his waste;

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- (ii) He knows the concentrations of the significant toxic constituents in his waste; and
- (iii) He can demonstrate to the department beyond a reasonable doubt that any waste constituents about which he has limited or no knowledge do not significantly affect the toxicity of his waste.

(b) Equivalent concentration. A person who is book designating his waste shall determine the equivalent concentration (in percent) of the toxic constituents in his waste by using the following formula:

$$\text{Equivalent Concentration}(\%) = \frac{\Sigma X\%}{10} + \frac{\Sigma A\%}{100} + \frac{\Sigma B\%}{1000} + \frac{\Sigma C\%}{10000} + \frac{\Sigma D\%}{100000}$$

where $\Sigma(X, A, B, C, \text{ or } D)\%$ is the sum of all the concentration percentages for a particular toxic category.

Example 1. A person's waste contains: Aldrin (X Category) .01%; Diuron (B Category) 1%; Benzene (C Category) 4%; Phenol (C Category) 2%; Cyclohexane (C Category) 5%; Water (nontoxic) 87%. His equivalent concentration (E.C.) would be:

$$\text{E.C.}(\%) = .01\% + \frac{0\%}{10} + \frac{1\%}{100} + \frac{(4\% + 2\% + 5\%)}{1000} + \frac{0\%}{10000} = .01\% + 0\% + .01\% + .011\% + 0\% = .031\%$$

-So his equivalent concentration equals .031%.

(e) Toxic dangerous waste graph. To book designate his waste, a person shall use the toxic dangerous waste mixtures graph in WAC 173 303 9906, by finding the equivalent concentration percentage for his waste along the abscissa, finding his total waste quantity along the ordinate, and plotting the point on the graph where the horizontal line drawn from his total waste quantity intersects the vertical line drawn from his waste mixture's equivalent concentration. If the plotted point is in the area marked DW, he shall designate his waste DW; if the plotted point is in the area marked EHW, he shall designate his waste EHW.

(5) Designation from bioassay data. If a person has established the toxicity of his waste by means of the bioassay test methods adopted under WAC 173 303 110(3), and has determined his waste's toxicity range (C category or greater toxicity, or D category toxicity), then he shall designate his waste according to the toxic dangerous waste designation table, below:

TOXIC DANGEROUS WASTE DESIGNATION TABLE

| If your waste's toxic range falls in the . . . | And your monthly or batch waste quantity is . . . | Then your waste's designation is . . . |
|--|---|--|
| D Category | Greater than 220 lbs. (100 kg) | DW |
| X, A, B, or C Category | 40-220 lbs. (18.2-100 kg) | DW |
| | Greater than 220 lbs. (100 kg) | EHW |

Reserved.

AMENDATORY SECTION (Amending Order DE-87-4, filed 6/26/87)

~~WAC 173-303-102 ((Persistent dangerous wastes-~~
 (1) Purpose. This section describes the procedures for designating wastes which contain halogenated hydrocarbons (HH) and/or polycyclic aromatic hydrocarbons with more than three rings and less than seven rings (PAH).

(2) Concentration determination. A person shall determine the concentration of HH and/or PAH in his waste by either testing his waste as specified in (a) of this subsection, or by the calculation procedures described in (b) of this subsection.

(a) Concentration tests. A person shall test his waste to determine its concentration level as follows:

(i) For HH By using the testing methods specified in WAC 173 303 110 (3)(a)(v); and;

(ii) For PAH By using the testing methods specified in WAC 173 303 110 (3)(a)(vi).

(b) Concentration calculations. If a person knows the concentrations of the significant persistent constituents in his waste, and if he can demonstrate to the department beyond a reasonable doubt that any remaining persistent constituents for which he does not know the concentrations would not contribute significantly to the total persistent concentration, then he may calculate the concentration of persistent constituents in his waste as follows:

(i) A person whose waste contains one or more halogenated hydrocarbons for which the concentrations are known shall determine his total halogenated hydrocarbon concentration by summing the concentration percentages for all of his waste's significant halogenated hydrocarbons.

Example 1. A person's waste contains: Carbon tetrachloride .009%; DDT .012%; 1,1,1 trichloroethylene .02%. His total halogenated hydrocarbon concentration would be:

$$\text{Total HH Concentration}(\%) = .009\% + .012\% + .02\% = .041\%$$

(ii) A person whose waste contains one or more polycyclic aromatic hydrocarbons with more than three rings and less than seven rings for which the concentrations are known shall determine his total polycyclic aromatic hydrocarbon concentration by summing the concentration percentages for all of his waste's significant polycyclic aromatic hydrocarbons with more than three rings and less than seven rings.

Example 2. A person's waste contains: Chrysene .08%; 3, 4 benzopyrene 1.22%. His total polycyclic aromatic hydrocarbon concentration would be:

$$\text{Total PAH Concentration}(\%) = .08\% + 1.22\% = 1.3\%$$

(3) Designation criteria and quantity. A person whose waste contains persistent (HH or PAH) constituents shall designate his waste according to the persistent dangerous waste table, below, if his monthly or batch waste quantity exceeds 220 lbs. (100 kg).

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PERSISTENT DANGEROUS WASTE TABLE

| If your waste contains... | At a concentration level of... | Then your waste's designation is... |
|---------------------------------------|--------------------------------|-------------------------------------|
| Halogenated | 0.01 to 1.0% | DW |
| Hydrocarbons (HH) | greater than 1.0% | EHW |
| Polyyclic Aromatic Hydrocarbons (PAH) | greater than 1.0% | EHW* |

* No DW concentration level for PAH.) Reserved.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-103 ((Carcinogenic dangerous wastes. (1) Criteria. A substance which is listed in the National Institute for Occupational Safety and Health (NIOSH) document *Registry of Toxic Effects of Chemical Substances* (Registry), or any other scientific or technical documents, as an IARC (International Agency for Research on Cancer) human or animal, sufficient or limited carcinogen, shall be a carcinogenic substance for the purposes of this section. Any IARC identified substance which is an inorganic, respiratory carcinogen shall be a carcinogenic substance only if it occurs in a friable format (i.e., if it is in a waste which easily crumbles and forms dust which can be inhaled).

(2) Designation. Any person whose waste contains one or more IARC carcinogen(s) shall designate his waste if:

(a) The monthly or batch waste quantity exceeds 220 lbs. (100 kg); and either

(b)(i) The concentration of any one IARC sufficient (human or animal) carcinogen exceeds 1.0% of the waste quantity. Such waste shall be designated EHW, and such designation shall take precedence over any DW designation determined by (b)(ii) or (iii) of this subsection; or

(ii) The concentration of any one IARC sufficient (human or animal) carcinogen exceeds 0.01% of the waste quantity. Such waste shall be designated DW; or

(iii) The total concentration summed for all IARC sufficient and limited (human and animal) carcinogens exceeds 1.0% of the waste quantity. Such waste shall be designated DW.

(c) For designation purposes, any IARC human or animal, sufficient or limited carcinogen that is so rated because of studies involving implantation of the substance into test animals as sole cause for the IARC rating, shall not be carcinogenic. This additional information is available in the IARC *Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans*.) Reserved.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-110 Sampling and testing methods.

(1) Purpose. This section describes the testing methods which may be used in the process of designating a dangerous waste. Quality control procedures specified by the testing method or an approved equivalent method must be followed for the analytical result to be considered valid for designation.

(2) Representative samples.

(a) The methods and equipment used for obtaining representative samples of a waste will vary with the type and form of the waste. The department will consider samples collected using the sampling methods below(,) or the most recent version of such methods for wastes with properties similar to the indicated materials, to be representative samples of the wastes:

(i) Crushed or powdered material - ASTM Standard D346-75;

(ii) Extremely viscous liquid - ASTM Standard D140-70;

(iii) Fly ash-like material - ASTM Standard D2234-86;

(iv) Soil-like material - ASTM Standard D1452-65;

(v) Soil or rock-like material - ASTM Standard D420-69;

(vi) Containerized liquid wastes - "COLIWASA" described in *Test Methods for ((the Evaluation of)) Evaluating Solid Waste, Physical/Chemical Methods*, SW-846, revised July 1982, as amended by Update 1 (April 1984) and Update 2 (April 1985); and,

(vii) Liquid waste in pits, ponds, lagoons, and similar reservoirs - "Pond Sampler" described in *Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods*, SW-846, revised July 1982, as amended by Update 1 (April 1984) and Update 2 (April 1985).

(b) Copies of these representative sampling methods are available from the department except for the ASTM standards which can be obtained by writing to:

ASTM
1916 Race Street
Philadelphia, PA 19103.

(3) Test procedures. Copies of the test procedures listed in this subsection can be obtained ((from the department)) by writing to the appropriate address below:

For copies of WDOE test methods:

Attn: Test Procedures
Hazardous Waste Section((, PV-1))
Department of Ecology
PO Box 47600
Olympia, Washington 98504-7600

For copies of SW 846 and 40 CFR Part 261:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. ((20401)) 20402

For copies of ASTM methods:

ASTM
1916 Race Street
Philadelphia, PA 19103

The document titles and included test procedures are as follows:

(a) *Chemical Testing Methods for Complying with the state of Washington Dangerous Waste Regulation*, March 1982, revised July 1983, March 1984, and May 1993 describing methods for testing:

(i) Ignitability;

(ii) Corrosivity, including the addendum, *Test Method for Determining pH of Solutions in Contact with Solids*, March 1984;

(iii) Reactivity;

(iv) ((EP)) Toxicity characteristic leaching procedure;

(v) Halogenated hydrocarbons; and

(vi) Polycyclic aromatic hydrocarbons;

(b) *Biological Testing Methods*, the latest revision, describing procedures for:

(i) Static acute fish toxicity test; and

(ii) Acute oral rat toxicity test;

(c) *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846* (~~(((the most recent edition and all updates)))~~) Third Edition, 1993 as amended by Update I (August, 1993) is adopted by reference. This includes:

(i) Method 9095 (Paint Filter Liquids Test), demonstrating the absence or presence of free liquids in either a containerized or bulk waste;

(ii) Reserved;

(d) 40 CFR Part 261 Appendix X is adopted by reference for the purpose of analysis for chlorinated dibenzo-p-dioxins and dibenzofurans;

(e)(i) The determination of Polychlorinated Biphenyls in Transformer Fluids and Waste Oils, EPA-600/4-81-045; and

(ii) Analysis of Polychlorinated Biphenyls in Mineral Insulating Oils by Gas Chromatography, ASTM Standard D 4059-86.

(f) 40 CFR Part 261 Appendix III Chemical Analysis Test Methods, which lists sampling and analysis methods contained in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846*, is adopted by reference.

(4) Substantial changes to the testing methods described above shall be made only after the department has provided adequate opportunity for public review and comment on the proposed changes. The department may, at its discretion, schedule a public hearing on the proposed changes.

(5) Equivalent testing methods. Any person may request the department to approve an equivalent testing method by submitting a petition, prepared in accordance with WAC 173-303-910(2), to the department.

AMENDATORY SECTION (Amending Order 92-32, filed 1/5/93, effective 2/5/93)

WAC 173-303-120 Recycled, reclaimed, and recovered wastes. (1) This section describes the requirements for persons who recycle materials that are solid wastes and dangerous. Except as provided in subsections (2) and (3) of this section, dangerous wastes that are recycled are subject to the requirements for generators, transporters, and storage facilities of subsection (4) of this section. Dangerous wastes that are recycled will be known as "recyclable materials."

(2)(a) The following recyclable materials are solid wastes and sometimes are dangerous wastes. However, they are subject only to the requirements of (b) of this subsection, WAC 173-303-050, 173-303-145 and 173-303-960:

(i) Industrial ethyl alcohol that is reclaimed;

(ii) Used batteries (or used battery cells) returned to a battery manufacturer for regeneration;

(iii) Used oil that exhibits one or more of the characteristics or criteria of dangerous waste and is recycled in some manner other than:

(A) Being burned for energy recovery; or

(B) Being used in a manner constituting disposal, except when such use is by the generator on his own property;

(iv) Scrap metal;

(v) Fuels produced from the refining of oil-bearing dangerous wastes along with normal process streams at a petroleum refining facility if such wastes result from normal petroleum refining, production, and transportation practices;

(vi) Oil reclaimed from dangerous waste resulting from normal petroleum refining, production, and transportation practices, which oil is to be refined along with normal process streams at a petroleum refining facility;

(vii) Coke and coal tar from the iron and steel industry that contains dangerous waste from the iron and steel production process;

(viii)(A) Dangerous waste fuel produced from oil-bearing dangerous wastes from petroleum refining, production, or transportation practices, or produced from oil reclaimed from such dangerous wastes, where such dangerous wastes are reintroduced into a process that does not use distillation or does not produce products from crude oil so long as the resulting fuel meets the used oil specification under WAC 173-303-515 (1)(d) and so long as no other dangerous wastes are used to produce the dangerous waste fuel;

(B) Dangerous waste fuel produced from oil-bearing dangerous waste from petroleum refining production, and transportation practices, where such dangerous wastes are reintroduced into a refining process after a point at which contaminants are removed, so long as the fuel meets the used oil fuel specification under WAC 173-303-515 (1)(d); and

(C) Oil reclaimed from oil-bearing dangerous wastes from petroleum refining, production, and transportation practices, which reclaimed oil is burned as a fuel without reintroduction to a refining process, so long as the reclaimed oil meets the used oil fuel specification under WAC 173-303-515 (1)(e); and

(ix) Petroleum coke produced from petroleum refinery dangerous wastes containing oil at the same facility at which such wastes were generated, unless the resulting coke product exhibits one or more of the characteristics of dangerous waste in WAC 173-303-090.

(b) Any recyclable material listed in (a) of this subsection will be subject to the applicable requirements listed in subsection (4) of this section if the department determines, on a case-by-case basis, that:

(i) It is being accumulated, used, reused, or handled in a manner that poses a threat to public health or the environment; or

(ii) Due to the dangerous constituent(s) in it, any use or reuse would pose a threat to public health or the environment. Such recyclable material will be listed in WAC 173-303-016(6).

(3) The following recyclable materials are not subject to the requirements of this section but are subject to the requirements of WAC 173-303-070 through 173-303-110, 173-303-160, 173-303-500 through 173-303-525, and all

applicable provisions of WAC 173-303-800 through 173-303-840:

(a) Recycling requirements for state-only dangerous wastes (see WAC 173-303-500);

(b) Recyclable materials used in a manner constituting disposal (see WAC 173-303-505);

(c) Spent CFC or HCFC refrigerants that are recycled on-site or sent to be reclaimed off-site (see WAC 173-303-506);

(d) Dangerous wastes burned for energy recovery in boilers and industrial furnaces that are not regulated under Subpart O of 40 CFR Part 265 or WAC 173-303-670 (see WAC 173-303-510);

(e) Used oil that is burned for energy recovery in boilers and industrial furnaces that are not regulated under Subpart O of 40 CFR Part 265 or WAC 173-303-670, if such used oil:

(i) Exhibits one or more of the characteristics of a dangerous waste; or

(ii) Is designated as DW solely through WAC (~~(173-303-084 or 173-303-101 through 173-303-103)~~) 173-303-100; or

(iii) Is designated solely as W001, (see WAC 173-303-515);

(f) Spent lead-acid batteries that are being reclaimed (see WAC 173-303-520);

(g) Recyclable materials from which precious metals are reclaimed (see WAC 173-303-525).

(4) Those recycling processes not specifically discussed in subsections (2) and (3) of this section are generally subject to regulation only up to and including storage prior to recycling. For the purpose of this section, recyclable materials received from off-site shall be considered stored unless they are moved into an active recycling process within twenty-four hours after being received. An active recycling process refers to a dynamic recycling operation that occurs within a recycling unit such as a distillation or centrifuge unit. The phrase does not refer to passive storage-like activities that occur, for example, when tanks or containers are used for phase separation or for settling impurities. Passive storage-like activities are not eligible for the recycling exemption under this subsection.

The recycling process itself is generally exempt from regulation unless the department determines, on a case-by-case basis, that the recycling process poses a threat to public health or the environment.

Unless specified otherwise in subsections (2) and (3) of this section:

(a) Generators of recyclable materials are subject to all applicable requirements of this chapter including, but not limited to, WAC 173-303-170 through 173-303-230;

(b) Transporters of recyclable materials are subject to all applicable requirements of this chapter including, but not limited to, WAC 173-303-240 through 173-303-270;

(c) Owners or operators of facilities that receive recyclable materials from off-site and recycle these recyclable materials without storing them before they are recycled are subject to the following requirements:

(i) WAC 173-303-060,

(ii) WAC 173-303-283 through 173-303-290,

(iii) WAC 173-303-310 through 173-303-395,

(iv) WAC 173-303-630 (2) through (10), and

(v) WAC 173-303-640 (2) through (10), except 173-303-640 (8)(c) and the second sentence of WAC 173-303-640 (8)(a) (i.e., a recycler, unless otherwise required to do so, does not have to prepare a closure plan, a cost estimate for closure, or provide financial responsibility for his tank system to satisfy the requirements of this section). In lieu of the dates in WAC 173-303-640 (2) and (4), for existing tank systems regulated under this subsection, owners and operators must complete the assessment of the tank system's integrity by June 1, 1992, and must meet the secondary containment requirements of WAC 173-303-640(4) by January 12, 1993;

(vi) The owner or operator must obtain data, by screening-type analysis if necessary, confirming the designation of each waste stream, such that each dangerous waste received can be effectively recycled without jeopardizing human health or the environment. The owner or operator must verify the waste designation periodically, so that it is accurate and current, but at least once every six months or on a batch basis if shipments of a specific waste stream are less frequent. Copies of all analyses and data must be retained for at least five years and made available to the department upon request.

(d) Owners or operators of facilities that store recyclable materials before they are recycled are subject to the following requirements including, but not limited to:

(i) For all recyclers, the applicable provisions of:

(A) WAC 173-303-280 through 173-303-395,

(B) (~~WAC 173-303-420,~~

~~(C))~~ WAC 173-303-800 through 173-303-840;

(ii) For recyclers with interim status permits, the applicable storage provisions of WAC 173-303-400 including Subparts F through L of 40 CFR Part 265;

(iii) For recyclers with final facility permits, the applicable storage provisions of:

(A) WAC 173-303-600 through 173-303-650, and

(B) WAC 173-303-660.

AMENDATORY SECTION (Amending Order DE 83-36, filed 1/5/88, effective 2/5/88)

WAC 173-303-140 Land disposal restrictions. (1) Purpose.

(a) The purpose of this section is to encourage the best management practices for dangerous wastes according to the priorities of RCW 70.105.150 which are, in order of priority:

(i) Reduction;

(ii) Recycling;

(iii) Physical, chemical, and biological treatment;

(iv) Incineration;

(v) Stabilization and solidification; and

(vi) Landfill.

(b) This section identifies dangerous wastes that are restricted from land disposal, describes requirements for restricted wastes, and defines the circumstances under which a prohibited waste may continue to be land disposed.

(c) For the purposes of this section, the term "landfill," as stated in the priorities of RCW 70.105.150, shall be the same as the term "land disposal." Land disposal will be used in this section to identify the lowest waste management priority.

(2) Applicability.

The land disposal restrictions of this section apply to any person who owns or operates a ~~((land))~~ dangerous waste treatment, storage, or disposal facility in Washington state and to ~~((any generator affected by the restrictions and prohibitions in subsection (4) of this section, unless allowed pursuant to subsections (5), (6), or (7) of this section))~~ any person who generates or transports dangerous waste.

(a) Land disposal restrictions for wastes designated in accordance with WAC 173-303-070 (3)(a)(i), (ii), and (iii) shall be the restrictions set forth by the Environmental Protection Agency in 40 CFR Part 268 which are incorporated by reference into this regulation and the restrictions set forth in subsections (3) through (7) of this section. The exemption and exception provisions of subsections (3) through (7) are not applicable to the federal land disposal restrictions.

(b) Land disposal restrictions for state-only dangerous waste shall be the restrictions set forth in subsections (3) through (7) of this section.

(3) Definitions.

When used in this section the following terms have the meaning provided in this subsection. All other terms have the meanings given under WAC 173-303-040.

(a) "Dangerous waste constituents" means those constituents listed in WAC 173-303-9905 and any other constituents which have caused a waste to be a dangerous waste under this chapter.

~~((b) ("Ignitable waste" means a dangerous waste that exhibits the characteristic of ignitability described in WAC 173-303-090(5)).~~

~~((c))~~ (e)) "Land disposal" means placement in a facility or on the land with the intent of leaving the dangerous waste at closure, and includes, but is not limited to, placement for disposal purposes in a: Landfill; surface impoundment; waste pile; injection well; land treatment facility; salt dome or salt bed formation; underground cave or mine; concrete vault or bunker.

~~((d) "Leachable inorganic waste" means solid dangerous waste (i.e., passes paint filter test) that is not an organic/carbonaceous waste and exhibits the characteristic of EP toxicity described in WAC 173-303-110.~~

~~((e))~~ (c) "Organic/carbonaceous waste" means a dangerous waste that contains combined concentrations of greater than ten percent organic/carbonaceous constituents in the waste; organic/carbonaceous constituents are those substances that contain carbon-hydrogen, carbon-halogen, or carbon-carbon chemical bonding.

~~((f) "Reactive waste" means a dangerous waste that exhibits the characteristic of reactivity described in WAC 173-303-090(7).~~

~~((g))~~ (d) "Solid acid waste" means a dangerous waste that exhibits the characteristic of low pH under the corrosivity tests of either WAC 173-303-090 (6)(a)(ii) or (iii).

~~((h))~~ (e) "Stabilization" and "solidification" mean a technique that limits the solubility and mobility of dangerous waste constituents. Solidification immobilizes a waste through physical means and stabilization immobilizes the waste by bonding or chemically reacting with the stabilizing material.

(4) Land disposal restrictions and prohibitions. The land disposal requirements of this subsection apply to land disposal in Washington state.

(a) Disposal of extremely hazardous waste (EHW). No person shall land dispose of EHW, except as provided in subsection (5) of this section, at any land disposal facility in the state. No person shall land dispose of EHW at the facility established under RCW 70.105.050, except as provided by subsections (5), (6), and (7) of this section. A person is encouraged to reclaim, recycle, recover, treat, detoxify, neutralize, or otherwise process EHW to remove or reduce its harmful properties or characteristics, provided that such processing is performed in accordance with the requirements of this chapter.

(b) Disposal of liquid waste. Special requirements for the disposal of liquid waste in landfills.

(i) Bulk or noncontainerized liquid waste or waste containing free liquids must not be placed in a landfill unless, before disposal, the liquid waste or waste containing free liquids is treated so that free liquids are no longer present.

(ii) Containers holding free liquids must not be placed in a landfill unless:

(A) All free-standing liquid;

(I) Has been removed by decanting, or other methods; or

(II) Has been mixed with absorbent or stabilized (solidified) so that free-standing liquid is no longer observed; or

(III) Has been otherwise eliminated; or

(B) The container is very small, such as an ampule; or

(C) The container is a lab pack and is disposed of in accordance with WAC 173-303-161 and this chapter.

(iii) To demonstrate the absence or presence of free liquids in either a containerized or a bulk waste, the following tests must be used: Method 9095 (Paint Filter Liquids Test) as described in Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods. (EPA Publication No. SW-846.)

~~((c) ("Disposal of ignitable and reactive waste. No person shall land dispose ignitable or reactive waste, except as provided in subsections (5), (6), or (7) of this section. A person is encouraged to reclaim, recycle, recover, treat, detoxify, neutralize, or otherwise process these wastes to remove or reduce their harmful properties or characteristics, provided that such processing is performed in accordance with the requirements of this chapter.~~

~~((d))~~ (d) Disposal of solid acid waste. No person shall land dispose solid acid waste, except as provided in subsections (5), (6), or (7) of this section. A person is encouraged to reclaim, recycle, recover, treat, detoxify, neutralize, or otherwise process these wastes to remove or reduce their harmful properties or characteristics, provided that such processing is performed in accordance with the requirements of this chapter.

~~((e))~~ (d) Disposal of organic/carbonaceous waste.

(i) No person shall land dispose organic/carbonaceous waste, except as provided in subsections (5), (6), or (7) of this section. A person is encouraged to reclaim, recycle, recover, treat, detoxify, or otherwise process these wastes to remove or reduce their harmful properties or characteristics, provided that such processing is performed in accordance

with the requirements of this chapter. Organic/carbonaceous wastes must be incinerated as a minimum management method according to the dangerous waste management priorities as defined in subsection (1)(a) of this section.

(ii) This prohibition against the land disposal of organic/carbonaceous waste does not apply to black mud generated from the caustic leach recovery of cryolite at primary aluminum smelting plants.

(iii) This prohibition against the land disposal of organic/carbonaceous waste does not apply to any person who certifies to the department that recycling, treatment and incineration facilities are not available within a radius of one thousand miles from Washington state's borders. Such certification must be sent to the department by certified mail and must include: The name, address and telephone number of the person certifying; a brief description of the organic/carbonaceous waste covered by the certification; a discussion of the efforts undertaken to identify available recycling, treatment and incineration facilities; and the signature of the person responsible for the certification and development of information used to support the certification. Records and information supporting the certification must be retained by the certifying person and must be made available to the department upon request.

A certification that has been properly submitted to the department will remain valid until the department determines that a recycling, treatment or incineration facility is available within a radius of one thousand miles from Washington state's borders and the person who submitted the certification is unable to demonstrate otherwise. A recycling, treatment or incineration facility will be considered by the department to be available if such facility: Is operating, and; can safely and legally recycle, treat or incinerate the organic/carbonaceous waste, and; has sufficient capacity to receive and handle significant amounts of the waste, and; agrees to accept the waste.

~~((f) Disposal of leachable inorganic waste. No person shall land dispose a leachable inorganic waste, except as provided in subsections (5), (6), or (7) of this section. Leachable inorganic waste must be stabilized (solidified) as a minimum management method according to the dangerous waste management priorities as defined in subsection (1)(a) of this section or the leachable inorganic waste must be lab packaged in a container that complies with WAC 173-303-161. A person is encouraged to reclaim, recycle, recover, treat, detoxify, or otherwise process these wastes to remove or reduce their harmful properties or characteristics, provided that such processing is performed in accordance with the requirements of this chapter.~~

~~(g) Disposal of dioxin containing wastes. These wastes are regulated by federal regulations contained in 40 CFR Part 268 that restrict the land disposal of dioxin containing wastes.~~

~~(h) Disposal of solvent wastes. These wastes are regulated by federal regulations contained in 40 CFR Part 268 that restrict the land disposal of solvent wastes.)~~

(5) Treatment in land disposal facilities. The land disposal restrictions in subsection (4) of this section do not apply to persons treating dangerous wastes in surface impoundments, waste piles, or land treatment facilities provided that such treatment is performed in accordance with the requirements of this subsection and this chapter.

(a) Surface impoundment treatment.

~~((f)) Liquid waste, extremely hazardous waste (EHW), solid acid waste, (leachable inorganic waste,) and organic/carbonaceous waste may be placed in surface impoundments for purposes of treatment provided the owner/operator can demonstrate that effective treatment of the dangerous waste constituents will occur and at closure the owner/operator complies with the prohibitions and restrictions of subsection (4) of this section.~~

~~((ii) Ignitable waste and reactive waste may be placed in surface impoundments provided that:~~

~~(A) The conditions in (a)(i) of this subsection are complied with; and~~

~~(B) The ignitable or reactive waste is treated, rendered, or mixed before or immediately after placement in the impoundment so that the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090, and 173-303-395(1) is complied with.))~~

(b) Waste pile treatment.

~~((f) Leachable inorganic waste,) Liquid waste, extremely hazardous waste (EHW), solid acid waste, and organic/carbonaceous waste may be placed in waste piles for purposes of treatment provided the owner/operator can demonstrate that effective treatment of dangerous waste constituents will occur and that at closure the owner/operator will be in compliance with the prohibitions and restrictions of subsection (4) of this section.~~

~~((ii) Ignitable waste and reactive waste may be placed in a waste pile provided that:~~

~~(A) The conditions in (b)(i) of this subsection are complied with; and~~

~~(B) The placement of the ignitable or reactive waste onto an existing waste pile results in the waste or mixture no longer meeting the definition of ignitable or reactive under WAC 173-303-090, and complies with WAC 173-303-395(1).))~~

(c) Land treatment.

~~((f)) Liquid waste, extremely hazardous waste (EHW), and organic/carbonaceous waste((, and leachable inorganic waste)) may be land treated provided that the owner/operator can demonstrate that effective treatment of dangerous waste constituents will occur, and at the end of the post-closure care period the owner/operator will be in compliance with subsection (4) of this section.~~

~~((ii) Ignitable waste and reactive waste may be land treated provided that:~~

~~(A) The conditions in (c)(i) of this subsection are complied with; and~~

~~(B) The ignitable or reactive waste is immediately incorporated into the soil so that the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090, and complies with WAC 173-303-395(1).))~~

(6) Case-by-case exemptions to a land disposal prohibition. Any person may petition the department for an exemption from a prohibition in subsection (4) of this section for the land disposal of a dangerous waste. The procedures to submit a petition to the department are specified in WAC 173-303-910(6). The department may deny any petition if it determines that there is a potential for dangerous waste constituents to migrate from the land

disposal facility where the waste is to be placed. The department will deny any petition when exemption would result in a substantial or imminent threat to public health or the environment. The department will deny any petition when exemption would result in a violation of applicable state laws.

The department may grant an exemption from the prohibitions and restrictions of subsection (4) of this section based on the demonstrations specified in (a), (b)(~~7~~) or (c)(~~7~~ or ~~8~~)) of this subsection.

(a) Land disposal exemption for treatment residuals. Any person may request an exemption from a land disposal prohibition in subsection (4) of this section for treatment residuals by demonstrating to the department that:

(i) The person has applied the best achievable management method to the original waste; and

(ii) Application of additional management methods to the treatment residuals would prevent the person from utilizing the best achievable management methods for the original dangerous waste; and

(iii) The land disposal of the treatment residuals does not pose a greater risk to the public health and the environment than land disposal of the original dangerous waste would pose.

(b) Economic hardship exemption. Any person may request an exemption from a prohibition in subsection (4) of this section for the land disposal of a dangerous waste by demonstrating to the department that alternative management of the dangerous waste will impose an unreasonable economic burden in relation to the threat of harm to public health and the environment. It will be solely within the discretion of the department to approve or deny the requests for exemptions based on economic hardship.

~~(c) (Leachable inorganic waste exemption. Any person may request an exemption from the stabilization (solidification) requirement in subsection (4)(f) of this section by demonstrating to the department that:~~

~~(i) The stabilization (solidification) of a dangerous waste is less protective of human health and the environment than landfilling; or~~

~~(ii) Stabilization (solidification) capacity is unavailable. This demonstration may include technical and practical difficulties associated with providing alternative capacity. A person must provide a detailed schedule and plan for alternative capacity; or~~

~~(iii) Stabilization (solidification) techniques have been applied to the original waste and further efforts at stabilization (solidification) would not result in significantly reducing the solubility and mobility of the dangerous waste constituents.~~

~~(d)) Organic/carbonaceous waste exemption. Any person may request an exemption from the requirements in subsection (4) of this section by demonstrating to the department that:~~

~~(i) Alternative management methods for organic/carbonaceous waste are less protective of public health and the environment than stabilization or landfilling; or~~

~~(ii)(A) The organic/carbonaceous waste has a heat content less than 3,000 BTU/LB or contains greater than sixty-five percent water or other noncombustible moisture; and~~

(B) Incineration is the only management method available within a radius of one thousand miles from Washington state's border (i.e., recycling or treatment are not available).

(7) Emergency cleanup provision. The department may, on a case-by-case basis, grant an exception to the land disposal restrictions in subsection (4) of this section for an emergency cleanup where an imminent threat to public health and the environment exists. Any exception will require compliance with applicable state law and will require (consistent with the nature of the emergency and imminent threat) application of the waste management priorities of RCW 70.105.150.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-160 Containers. (1) Waste quantity. Containers and inner liners shall not be considered as a part of the waste when measuring or calculating the quantity of a dangerous waste. Only the weight of the residues in nonempty or nonrinsed containers or inner liners will be considered when determining waste quantities.

(2) A container or inner liner is "empty" when:

(a) All wastes in it have been taken out that can be removed using practices commonly employed to remove materials from that type of container or inner liner (e.g., pouring, pumping, aspirating, etc.) and, whichever quantity is least, either less than one inch of waste remains at the bottom of the container or inner liner, or the volume of waste remaining in the container or inner liner is equal to one percent or less of the container's total capacity, or, if the container's total capacity is greater than one hundred ten gallons, the volume of waste remaining in the container or inner liner is no more than 0.3 percent of the container's total capacity. A container which held compressed gas is empty when the pressure inside the container equals or nearly equals atmospheric pressure; and

(b) If the container or inner liner held acutely hazardous waste, as defined in WAC 173-303-040, or pesticides bearing the danger or warning label, the container or inner liner has been rinsed at least three times with an appropriate cleaner or solvent. The volume of cleaner or solvent used for each rinsing shall be ten percent or more of the container's or inner liner's capacity. In lieu of rinsing for containers that might be damaged or made unusable by rinsing with liquids (e.g., fiber or cardboard containers without inner liners), an empty container may be vacuum cleaned, struck, with the open end of the container up, three times (e.g., on the ground, with a hammer or hand) to remove or loosen particles from the inner walls and corners, and vacuum cleaned again. Equipment used for the vacuum cleaning of residues from containers or inner liners must be decontaminated before discarding, in accordance with procedures approved by the department.

Any rinsate or vacuumed residue which results from the cleaning of containers or inner liners shall whenever possible be reused in a manner consistent with the original intended purpose of the substance in the container or inner liner. In the case of a farmer, if the rinsate is a pesticide residue then the rinsate shall be managed or reused in a manner consistent with the instructions on the pesticide label, provided that

when the label instructions specify disposal or burial, such disposal or burial must be on the farmer's own (including rented, leased or tenanted) property. Otherwise, the rinsate shall be checked against the designation requirements (WAC 173-303-070 through ~~((173-303-103))~~ 173-303-100) and, if designated, managed according to the requirements of this chapter.

(c) In the case of a container, the inner liner, that prevented the container from contact with the commercial chemical product or manufacturing chemical, has been removed.

(3) Any residues remaining in containers or inner liners that are "empty" as described in subsection (2) of this section will not be subject to the requirements of this chapter, and will not be considered as accumulated wastes for the purposes of calculating waste quantities.

(4) A person may petition the department to approve alternative container rinsing processes in accordance with WAC 173-303-910(1).

AMENDATORY SECTION (Amending Order 88-24, filed 1/4/89)

WAC 173-303-161 Overpacked containers (labpacks). Small containers of dangerous waste may be placed in overpacked drums (or labpacks) provided that the following conditions are met:

(1) Dangerous waste must be packaged in nonleaking inside containers. The inside containers must be of a design and constructed of a material that will not react dangerously with, be decomposed by, or be ignited by the contained waste. Inside containers must be tightly and securely sealed and, to the extent possible, should be full and have as little air as possible in them to minimize voids. The inside containers must be of the size and type specified in the Department of Transportation (DOT) hazardous materials regulations (49 CFR Parts 173, 178, and 179), if those regulations specify a particular inside container for the waste;

(2) The inside containers must be overpacked in an open head DOT-specification metal or fiber drum shipping container ~~((49 CFR Parts 178 and 179) of no more than 416-liter (110 gallon) capacity and surrounded by, at a minimum,))~~ which meets all of the requirements of 49 CFR Parts 178 and 179. The overpack container must not exceed a capacity of 416-liter (110 gallon). The overpack container must have a sufficient quantity of absorbent material to completely absorb all of the liquid contents of the inside containers. The metal or fiber outer container must be full after packing with inside containers and absorbent material;

(3) The absorbent material used must not be capable of reacting dangerously with, being decomposed by, or being ignited by the contents of the inside containers in accordance with WAC 173-303-395 (1)(b);

(4) Incompatible wastes, as defined in WAC 173-303-040, must not be placed in the same outside container; and

(5) Reactive wastes, other than cyanide- or sulfide-bearing waste as defined in WAC 173-303-090 (7)(a)(v), must be treated or rendered nonreactive prior to packaging in accordance with subsections (1) through (4) of this section. Cyanide- and sulfide-bearing reactive waste may be

packed in accordance with subsections (1) through (4) of this section without first being treated or rendered nonreactive.

(6) An itemized listing of the chemicals, their concentrations and quantities per labpack must be kept by the generator and must be readily available in case of an emergency during shipment, and for the purposes of preparing annual reports under WAC 173-303-220.

AMENDATORY SECTION (Amending Order DE 83-36, filed 1/5/88, effective 2/5/88)

WAC 173-303-170 Requirements for generators of dangerous waste. (1) A person shall be a dangerous waste generator if his solid waste is designated by the requirements of WAC 173-303-070 through ~~((173-303-103))~~ 173-303-100.

(a) The generator shall be responsible for designating his waste as DW or EHW.

(b) The generator may request an exemption for his dangerous waste according to the procedures of WAC 173-303-072.

(2) A dangerous waste generator shall notify the department and obtain an EPA/state identification number as required by WAC 173-303-060, and shall comply with the requirements of WAC 173-303-170 through 173-303-230.

(3) ~~((Except for the accumulation and storage of dangerous wastes for less than ninety days as allowed under WAC 173-303-200,))~~ Any generator who ~~((transfers,))~~ stores, treats, or disposes of dangerous waste on-site shall perform his operations in accordance with the TSD facility requirements ~~((of this chapter))~~ with the following exceptions:

(a) Generators who accumulate dangerous wastes for less than ninety days as allowed under WAC 173-303-200 or for less than one hundred eighty days as allowed under WAC 173-303-201 and 173-303-202;

(b) Generators who treat dangerous waste on-site in accumulation tanks and containers provided that the generator maintains a log showing the date and amount of waste treated and complies with:

(i) WAC 173-303-200 or 173-303-201, and for tanks, WAC 173-303-202; and

(ii) WAC 173-303-283(3);

(c) Generators who treat special waste in units other than accumulation tanks or containers provided:

(i) The treatment occurs within the appropriate accumulation time frame;

(ii) The unit is designed, constructed, and operated in a manner that prevents:

(A) A release of waste and waste constituents to the environment;

(B) Endangerment of health of employees or the public;

(C) Excessive noise;

(D) Negative aesthetic impact on the use of adjacent property.

(iii) The treatment unit must also be inspected routinely for deterioration that would lead to a release and repairs must be conducted promptly.

(4) The generator of a special waste may, upon approval by the department, for special waste only:

(a) Develop and implement an alternative manifest mechanism in lieu of the requirements of WAC 173-303-180 for special waste shipments. Such alternative mechanism might employ a single manifest for multiple shipments of the

same special waste, might not require signatures or multiple copies for transporters or designated receiving facilities, and might include such other factors as the generator might develop and the department approve. The generator must, however, demonstrate to the department's satisfaction before implementing the alternative mechanism that it will assure accurate tracking and recording of waste shipments, and that the mechanism provides for the proper submission of exception reports as specified in WAC 173-303-220(2). The generator shall be responsible for assuring that all transporters and facilities involved in implementing the alternative manifest mechanism are complying with the terms and conditions of the mechanism as approved by the department; and

(b) Pursuant to the requirements of WAC 173-303-200, accumulate special waste in containers and tanks for up to one hundred eighty days, and accumulate special waste in piles for up to ninety days provided that he complies with WAC 173-303-660 (2), (3)(a), (b)(i), (ii)(A), (7), (8), and (9)(a).

(5) The generator must comply with the special land disposal restrictions for certain dangerous wastes in WAC 173-303-140.

AMENDATORY SECTION (Amending Order DE-85-10, filed 6/3/86)

WAC 173-303-180 Manifest. Before transporting dangerous waste or offering dangerous waste for transport off the site of generation, the generator shall prepare a manifest and shall follow all applicable procedures described in this section.

(1) This subsection describes the form and contents of dangerous waste manifests. 40 CFR Part 262 Appendix - Uniform Hazardous Waste Manifest and Instructions (EPA Forms 8700-22 and 8700-22A and Their Instructions) is adopted by reference. The manifest shall be EPA Form 8700-22 and, if necessary, EPA Form 8700-22A. The manifest must be prepared in accordance with the instructions for these forms, as described in the uniform manifest Appendix of 40 CFR Part 262, and in addition must contain the following information in the specified shaded items of the uniform manifest:

(a) ~~Item D~~ ~~(, and O if the continuation sheet 8700-22A is used)~~ - The first transporter's telephone number must be provided in this space;

(b) ~~Item F~~ ~~(, and Q if the continuation sheet 8700-22A is used)~~ - If a second transporter is used, then the second transporter's telephone number must be provided in this space;

(c) Item H - The designated receiving facility's telephone number must be provided in this space; ~~(and)~~

(d) Item I, and R if the continuation sheet 8700-22A is used - The dangerous waste number (e.g., F001, D006, WT02, P102) must be provided in this space for each corresponding waste entered and described under Item 11, and 28 if the continuation sheet 8700-22A is used. As discussed in subsection (5) of this section, dangerous waste numbers WL01 or WL02 may be used in this space for labpacks;

(e) Item O, (on the continuation sheet 8700-22A) - If a third transporter is used, then the third transporter's telephone number must be provided in this space; and

(f) Item Q, (on the continuation sheet 8700-22A) - If a fourth transporter is used, then the fourth transporter's telephone number must be provided in this space.

(2) The manifest shall consist of enough copies to provide the generator, transporter(s), and facility owner/operator with a copy, and a copy for return to the generator.

(3) Manifest procedures.

(a) The generator shall:

(i) Sign and date the manifest certification by hand;

(ii) Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest; and

(iii) Retain one copy in accordance with WAC 173-303-210, Generator recordkeeping.

(b) The generator shall give the remaining manifest copies to the transporter.

(c) If the transporter is unable to deliver the dangerous waste shipment to the designated facility or the alternate facility, the generator must either designate another facility or instruct the transporter to return the waste shipment.

(d) For shipments of dangerous waste within the United States solely by water (bulk shipments only), the generator must send three copies of the manifest dated and signed in accordance with this section to the owner or operator of the designated facility or the last water (bulk shipment) transporter to handle the waste in the United States if exported by water. Copies of the manifest are not required for each transporter.

(e) For rail shipments of dangerous waste within the United States which originate at the site of generation, the generator must send at least three copies of the manifest dated and signed in accordance with this section to:

(i) The next nonrail transporter, if any; or

(ii) The designated facility if transported solely by rail;

or

(iii) The last rail transporter to handle the waste in the United States if exported by rail.

(f) For shipments of federally regulated hazardous waste to a designated facility in an authorized state which has not yet obtained authorization to regulate that particular waste as hazardous, the generator must assure that the designated facility agrees to sign and return the manifest to the generator, and that any out-of-state transporter signs and forwards the manifest to the designated facility.

(4) Special requirements for shipments to the Washington EHW facility at Hanford.

(a) All generators planning to ship dangerous waste to the EHW facility at Hanford shall notify the facility in writing and by sending a copy of the prepared manifest prior to shipment.

(b) The generator shall not ship any dangerous waste without prior approval from the EHW facility. The state operator may exempt classes of waste from the requirements of WAC 173-303-180 (4)(a) and (b) where small quantities or multiple shipments of a previously approved waste are involved, or there exists an emergency and potential threat to public health and safety.

(5) Special instructions for shipment of labpacks. For purposes of completing the uniform dangerous waste manifest, dangerous waste numbers WL01 (for labpacks

containing wastes designated as EHW) or WL02 (for labpacks containing wastes designated only as DW) may be used to complete Items I and R in lieu of the dangerous waste numbers that would otherwise be assigned to the contents of the labpack.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-200 Accumulating dangerous waste on-site. (1) A generator, not to include transporters as referenced in WAC 173-303-240(3); may accumulate dangerous waste on-site without a permit for ninety days or less after the date of generation, provided that:

(a) All such waste is shipped off-site to a designated facility or placed in an on-site facility which is permitted by the department under WAC 173-303-800 through 173-303-845 or recycled or treated on-site in ninety days or less. The department may, on a case-by-case basis, grant a maximum thirty day extension to this ninety day period if dangerous wastes must remain on-site due to unforeseen, temporary and uncontrollable circumstances. A generator who accumulates dangerous waste for more than ninety days is an operator of a storage facility and is subject to the facility requirements of this chapter and the permit requirements of this chapter as a storage facility unless he has been granted an extension to the ninety day period allowed pursuant to this subsection;

(b) The waste is placed in containers and the generator complies with WAC 173-303-630 (2), (3), (4), (5), (6), (8), ~~((and))~~ (9), and (10), or the waste is placed in tanks and the generator complies with WAC 173-303-640 (2) through (10), except WAC 173-303-640 (8)(c) and the second sentence of WAC 173-303-640 (8)(a). (Note: A generator, unless otherwise required to do so, does not have to prepare a closure plan, a cost estimate for closure, or provide financial responsibility for his tank system to satisfy the requirements of this section.) ~~((In lieu of the "sufficient freeboard" requirement of WAC 173-303-640 (5)(b)(iii) for uncovered tanks, the generator must maintain a minimum freeboard of two feet.))~~ Such a generator is exempt from the requirements of WAC 173-303-620 and 173-303-610, except for WAC 173-303-610 (2) and (5). For container accumulation (including satellite areas as described in subsection (2)~~((e))~~) of this section, the department may require that the accumulation area include secondary containment in accordance with WAC 173-303-630(7), if the department determines that there is a potential threat to public health or the environment due to the nature of the wastes being accumulated, or due to a history of spills or releases from accumulated containers. In addition, any new container accumulation areas (but not including new satellite areas, unless required by the department) constructed or installed after September 30, 1986, must comply with the provisions of WAC 173-303-630(7);

(c) The date upon which each period of accumulation begins is marked and clearly visible for inspection on each container;

(d) While being accumulated on site, each container and tank is labeled or marked clearly with the words "dangerous waste" or "hazardous waste." Each container or tank must also be marked with a label or sign which identifies the major risk(s) associated with the waste in the container or tank for employees, emergency response personnel and the

public (Note—If there is already a system in use that performs this function in accordance with local, state, or federal regulations, then such system will be adequate). The department may also require that a sign be posted at each entrance to the accumulation area, bearing the legend, "danger—unauthorized personnel keep out," or an equivalent legend, written in English, and legible from a distance of twenty-five feet or more; and

(e) The generator complies with the requirements for facility operators contained in:

(i) WAC 173-303-330 through 173-303-360 (personnel training, preparedness and prevention, contingency plan and emergency procedures, and emergencies)~~((7))~~ except for WAC 173-303-355 (SARA Title III coordination); and

(ii) WAC 173-303-320 (1), (2)(a), (b), (d), and (3) (general inspection).

(2) ~~((For the purposes of this section, the ninety-day accumulation period begins on the date that:~~

(a) ~~The generator first generates a dangerous waste; or~~
(b) ~~The quantity (or aggregated quantity) of dangerous waste being accumulated by a small quantity generator first exceeds the quantity exclusion limit for such waste (or wastes); or~~

~~(c) The quantity of dangerous waste being accumulated in containers in a satellite area exceeds fifty-five gallons of dangerous waste or one quart of acutely hazardous waste (see WAC 173-303-040). For the purposes of this section, a satellite area shall be a location at or near any point of generation where wastes initially accumulate, which is under the control of the operator of the process generating the waste.))~~ Satellite accumulation.

(a) A generator may accumulate as much as fifty-five gallons of dangerous waste or one quart of acutely hazardous waste per waste stream in containers at or near any point of generation where waste initially accumulates (defined as a satellite accumulation area in WAC 173-303-040). The satellite area must be under the control of the operator of the process generating the waste or secured at all times to prevent improper additions of wastes to a satellite container. Satellite accumulation is allowed without a permit provided the generator:

(i) Complies with WAC 173-303-630 (2), (4), (5) (a) and (b), (8)(a), and (9) (a) and (b); and

(ii) Complies with subsection (1)(d) of this section.

(b) When fifty-five gallons of dangerous waste or one quart of acutely hazardous waste is accumulated per waste stream, the container(s) must be marked immediately with the accumulation date and moved within three days to a designated storage or accumulation area.

(c) On a case-by-case basis the department may require the satellite area to be managed in accordance with all or some of the requirements under subsection (1) of this section, if the nature of the wastes being accumulated, a history of spills or releases from accumulated containers, or other factors are determined by the department to be a threat or potential threat to human health or the environment.

(3) For the purposes of this section, the ninety-day accumulation period begins on the date that:

(a) The generator first generates a dangerous waste; or
(b) The quantity (or aggregated quantity) of dangerous waste being accumulated by a small quantity generator first

exceeds the quantity exclusion limit for such waste (or wastes); or

(c) Fifty-five gallons of dangerous waste or one quart of acutely hazardous waste, per waste stream, is accumulated in a satellite accumulation area.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-201 Special accumulation standards.

(1) This section applies to persons who generate more than 220 pounds but less than 2200 pounds ((+1000 kg)) per month and do not accumulate on-site more than 2200 pounds ((+1000 kg)) of dangerous waste. The special provisions of this section do not apply to ((any)) acutely hazardous wastes ((as defined in WAC 173-303-040)) that exceed the QEL that are being generated or accumulated by the generator.

(2) For purposes of accumulating dangerous waste on-site, persons who generate per month and accumulate on-site less than 2200 pounds (1000 kg) per month of dangerous waste are subject to all applicable provisions of WAC 173-303-200 except as follows:

(a) In lieu of the ninety-day accumulation period, dangerous wastes may be accumulated for one hundred eighty days or less. The department may, on a case-by-case basis, grant a maximum ninety-day extension to this one hundred eighty-day period if the generator must transport his waste, or offer his waste for transportation, over a distance of two hundred miles or more for off-site treatment, storage, or disposal, and the dangerous wastes must remain on-site due to unforeseen, temporary and uncontrollable circumstances;

(b) The generator need not comply with WAC 173-303-330 (Personnel training); and

(c) In lieu of the contingency plan and emergency procedures required by WAC 173-303-350 and 173-303-360, the generator must comply with the following:

(i) At all times there must be at least one employee either on the premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures specified in (c)(iv) of this subsection. This employee is the emergency coordinator.

(ii) The generator must post the following information next to all emergency communication devices (including telephones, two-way radios, etc.):

(A) The name and telephone number of the emergency coordinator;

(B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and

(C) The telephone number of the fire department, unless the facility has a direct alarm.

(iii) The generator must ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies;

(iv) The emergency coordinator or his designee must respond to any emergencies that arise. The applicable responses are as follows:

(A) In the event of a fire, call the fire department or attempt to extinguish it using a fire extinguisher;

(B) In the event of a spill, contain the flow of dangerous waste to the extent possible, and as soon as is practicable, clean up the dangerous waste and any contaminated materials or soil;

(C) In the event of a fire, explosion, or other release which could threaten human health outside the facility or when the generator has knowledge that a spill has reached waters of the state, the generator must immediately notify the department and either the government official designated as the on-scene coordinator, or the National Response Center (using their twenty-four hour toll free number 800/424-8802). The report must include the following information:

(I) The name, address, and EPA/state identification number of the generator;

(II) Date, time, and type of incident (e.g., spill or fire);

(III) Quantity and type of hazardous waste involved in the incident;

(IV) Extent of injuries, if any; and

(V) Estimated quantity and disposition of recovered materials, if any.

AMENDATORY SECTION (Amending Order 88-24, filed 1/4/89)

WAC 173-303-202 Special requirements for generators of between two hundred twenty and two thousand two hundred pounds per month that accumulate dangerous waste in tanks.

(1) This section applies to generators of more than two hundred twenty pounds but less than two thousand two hundred pounds of dangerous waste in a calendar month, that accumulate dangerous waste in tanks for less than one hundred eighty days (or two hundred seventy days if the generator must ship the waste greater than two hundred miles), and do not accumulate over two thousand two hundred pounds on-site at any time.

(2) Generators of between two hundred twenty and two thousand two hundred pounds per month of dangerous waste must comply with the following general operating requirements:

(a) Treatment or storage of dangerous waste in tanks must comply with WAC 173-303-395(1).

(b) Dangerous wastes or treatment reagents must not be placed in a tank if they could cause the tank or its inner liner to rupture, leak, corrode, or otherwise fail before the end of its intended life.

(c) Uncovered tanks must be operated to ensure at least sixty centimeters (two feet) of freeboard, unless the tank is equipped with a containment structure (e.g., dike or trench), a drainage control system, or a diversion structure (e.g., standby tank) with a capacity that equals or exceeds the volume of the top sixty centimeters (two feet) of the tank.

(d) Where dangerous waste is continuously fed into a tank, the tank must be equipped with a means to stop this inflow (e.g., waste feed cutoff system or by-pass system to a standby tank).

Note: These systems are intended to be used in the event of a leak or overflow from the tank due to a system failure (e.g., a malfunction in the treatment process, a crack in the tank, etc.).

(3) Generators of between two hundred twenty and two thousand two hundred pounds per month accumulating dangerous waste in tanks must inspect, where present:

(a) Discharge control equipment (e.g., waste feed cutoff systems, by-pass systems, and drainage systems) at least once each operating day, to ensure that it is in good working order;

(b) Data gathered from monitoring equipment (e.g., pressure and temperature gauges) at least once each operating day to ensure that the tank is being operated according to its design;

(c) The level of waste in the tank at least once each operating day to ensure compliance with subsection (2)(c) of this section;

(d) The construction materials of the tank at least weekly to detect corrosion or leaking of fixtures or seams; and

(e) The construction materials of, and the area immediately surrounding, discharge confinement structures (e.g., dikes,) at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation).

Note: As required by WAC 173-303-320(3), the owner or operator must remedy any deterioration or malfunction he finds.

(4) Generators of between two hundred twenty and two thousand two hundred pounds per month accumulating dangerous waste in tanks must, upon closure of the facility, remove all dangerous waste from tanks, discharge control equipment, and discharge confinement structures.

Note: At closure, as throughout the operating period, unless the owner or operator can demonstrate, in accordance with WAC 173-303-070 (2)(a) or (b), that any solid waste removed from his tank is not a dangerous waste, the owner or operator becomes a generator of dangerous waste and must manage it in accordance with all applicable requirements of this chapter.

(5) Generators of between two hundred twenty and two thousand two hundred pounds per month must comply with the following special requirements for ignitable or reactive waste:

(a) Ignitable or reactive waste must not be placed in a tank, unless:

(i) The waste is treated, rendered, or mixed before or immediately after placement in a tank so that:

(A) The resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090 (5) or (7) of this chapter; and

(B) WAC 173-303-395(1) is complied with((-)); or

(ii) The waste is stored or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite or react; or

(iii) The tank is used solely for emergencies.

(b) The owner or operator of a facility which treats or stores ignitable or reactive waste in covered tanks must comply with the buffer zone requirements for tanks contained in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981).

(6) Generators of between two hundred twenty and two thousand two hundred pounds per month must comply with the following special requirements for incompatible wastes:

(a) Incompatible wastes, or incompatible wastes and materials, (see 40 CFR Part 265 Appendix V for examples) must not be placed in the same tank, unless WAC 173-303-395(1) is complied with.

(b) Dangerous waste must not be placed in an unwashed tank which previously held an incompatible waste or material, unless WAC 173-303-395(1) is complied with.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-210 Generator recordkeeping. (1) The generator shall keep a copy of each manifest signed by the initial transporter in accordance with WAC 173-303-180(3), manifest procedures, for three years, or until he receives a signed copy from the designated facility which received the waste. The signed facility copy shall be retained for at least five years from the date the waste was accepted by the initial transporter.

(2) The generator shall keep a copy of each annual report and exception report as required by WAC 173-303-220 for a period of at least five years from the due date of each report. The generator shall keep a copy of his most recent notification (Form 2) until he is no longer defined as a generator under this chapter.

(3) Waste designation records.

(a) The generator shall keep records of any test results, waste analyses, or other determinations made in accordance with WAC 173-303-170(1) for designating dangerous waste for at least five years from the date that the waste was last transferred for on-site or off-site treatment, storage, or disposal.

(b) At a minimum, test results must include:

(i) The sample source, sampling date, and sampling procedure used;

(ii) The laboratory performing the test;

(iii) The testing date, and testing method used;

(iv) The analytical result, or the quantitative range of the testing method for analytes not detected.

(4) Any other records required for generators accumulating wastes on-site as described in WAC 173-303-170 (4)(b) or 173-303-200 must be retained for at least five years, including, but not limited to such items as inspection logs (~~and operating records~~).

(5) The periods of retention for any records described in this section shall be automatically extended during the course of any unresolved enforcement action requiring those records or upon request by the director.

(6) All generator records, including plans required by this chapter, shall be made available and furnished upon request by the director.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-230 Special conditions. (1) Exporting dangerous waste.

Federal export requirements, administered by EPA, are set forth in 40 CFR 262 Subpart E and 40 CFR 261.5, 261.6, 262.41, and 263.20 and specify the procedures applicable to generators of hazardous waste (as defined in WAC 173-303-040). Copies of any forms or reports submitted to the administrator of United States EPA as required by 40 CFR 262 Subpart E shall also be submitted to the department.

(2) Importing dangerous waste. When importing dangerous waste from a foreign country into Washington state, the United States importer shall comply with all the

requirements of this chapter for generators, including the requirements of WAC 173-303-180(1), except that:

(a) In place of the generator's name, address and EPA/state identification number, the name and address of the foreign generator and the importer's name, address and EPA/state identification number shall be used; and

(b) In place of the generator's signature on the certification statement, the United States importer or his agent shall sign and date the certification and obtain the signature of the initial transporter.

(3) Empty containers. For the purposes of this chapter, a person who stores, treats, disposes, transports, or offers for transport empty containers of dangerous waste that were for his own use shall not be treated as a generator or as a facility owner/operator if the containers are empty as defined in WAC 173-303-160(2), and either:

(a) The rinsate is not a dangerous waste under this chapter; or

(b) He reuses the rinsate in a manner consistent with the original product or, if he is a farmer and the rinsate contains pesticide residues, he reuses or manages the rinsate in a manner consistent with the instructions on the pesticide label, provided that when the label instructions specify disposal or burial, such disposal or burial must be on the farmer's own (including rented, leased or tenanted) property.

(4) Tank cars. A person rinsing out dangerous waste tote tanks, truck or railroad tank cars shall handle the rinsate according to this chapter, and according to chapter 90.48 RCW, Water pollution control.

AMENDATORY SECTION (Amending Order DE-87-4, filed 6/26/87)

WAC 173-303-240 Requirements for transporters of dangerous waste. (1) Transporters shall comply with the requirements of WAC 173-303-060, Notification and identification numbers. Transporters who are involved in interstate transport shall use the identification number assigned to their national headquarters office, unless the department requires, on a case-by-case basis, that a transporter obtain his own unique EPA/state ID#. Transporters who are involved only in intrastate transport shall use the identification number assigned to their headquarters office located within the state. Transporters who must comply with the generator requirements as a result of a spill at a terminal or during transport shall obtain a separate generator EPA/state ID# for such spill or terminal.

(2) Any person who transports a dangerous waste shall comply with the requirements of WAC 173-303-240 through 173-303-270, when such dangerous waste is required to be manifested by WAC 173-303-180.

Any person who transports special waste shall, if the generator of the waste has implemented an alternative manifest mechanism approved by the department under WAC 173-303-170 (4)(a), comply with the terms and conditions specified by the generator and approved by the department for the alternative manifest mechanism.

(3) Any person who transports a dangerous waste shall also comply with the requirements of WAC 173-303-170 through 173-303-230 for generators, if he:

(a) Transports dangerous waste into the state from another country; or

(b) Mixes dangerous waste of different United States DOT shipping descriptions by mixing them into a single container.

(4) These requirements shall not apply to on-site (as defined in WAC 173-303-040) transportation of dangerous waste by generators, or by owners/operators of permitted TSD facilities.

(5) Transporters may store at a transfer facility manifested shipments of dangerous waste in containers meeting the requirements of WAC 173-303-190 (1), (2), and (3) for ten days or less. Transporters may not accumulate or store manifested shipments of dangerous waste for more than ten days. Reference to WAC 173-303-200 in 173-303-240(3) does not constitute authority for storage in excess of ten days for transporters. Transporters who do not comply with these conditions are subject to all applicable TSD facility requirements.

AMENDATORY SECTION (Amending WSR 90-20-016, filed 9/21/90, effective 10/22/90)

WAC 173-303-281 Notice of intent. (1) Purpose. The purpose of this section is to provide notification to the department, local communities and the public that the siting of a dangerous waste management facility is being considered. Also, to provide general information about the proposed facility owner/operator, the type of facility and the types of wastes to be managed and compliance with the siting criteria.

(2) Applicability. This section applies to owners/operators of proposed facilities. This section also applies to existing facilities for which the department receives an application for expansion. This section does not apply to owners/operators of facilities or portions of facilities who are applying for research, development and demonstration permits, pursuant to section 3005(g) of the Resource Conservation and Recovery Act, codified in 40 CFR Part 270.65. In addition, this section does not apply to owners/operators of facilities operating under an emergency permit pursuant to WAC 173-303-804 or to persons at facilities conducting on-site cleanup of sites under the Comprehensive Environmental Response Compensation and Liability Act, Sections 3004(u), 3004(v), and 3008(h) of the Resource Conservation and Recovery Act, chapter 70.105 RCW, or chapter 70.105D RCW, provided the cleanup activities are being conducted under a consent decree, agreed order, or enforcement order, or is being conducted by the department or United States Environmental Protection Agency. As used in this section:

(a) "Proposed facility" means a facility which has not qualified for interim status under WAC 173-303-805 or for which the department has not issued a final facility permit under WAC 173-303-806 prior to the effective date of this section;

(b) "Existing facility" means a facility which has qualified for interim status under WAC 173-303-805 or for which the department has issued a final facility permit under WAC 173-303-806 prior to the effective date of this section; and

(c) "Expansion" means the enlargement of the land surface area of an existing facility from that described in an interim status permit application or final status permit, the addition of a new dangerous waste management process, or

an increase in the overall design capacity of existing dangerous waste management processes at a facility.

(3) Notice of intent to file for an interim status or a dangerous waste permit.

(a) The notice of intent to be prepared by the owners/operators of the applicable facilities shall consist of:

(i) The name, address, and telephone number of the owner, operator, and corporate officers;

(ii) The location of the proposed facility or expansion on a topographic map with specifications as detailed in WAC 173-303-806 (4)(a)(xviii);

(iii) A brief description of the types and amounts of wastes to be managed annually;

(iv) A brief description of the major equipment items proposed, if any, and the waste management activities requiring a permit or revision of an existing permit;

(v) ~~((An environmental checklist from the State Environmental Policy Act rules, chapter 197-11 WAC;~~

~~(vi)))~~ Demonstration of compliance with the siting criteria as required under WAC 173-303-282 (6) and (7). The site conditions with regards to satisfying the criteria are to be assessed as of the date of submittal of the notice of intent to the department;

~~((vii)))~~ (vi) For informational purposes a complete summary of compliance violations of permit conditions at hazardous waste management facilities owned or operated by the applicant, its subsidiaries or its parent company, during the ten calendar years preceding the permit application. Along with the summary of compliance violations, as issued by appropriate state or federal regulatory agencies, the applicant shall also submit responses to past violations and any written correspondence with regulatory agencies regarding the compliance status of any hazardous waste management facility owned or operated by the applicant, its subsidiaries or parent company of the owner or operator. A more detailed compliance record must be provided upon request by the department;

~~((viii)))~~ (vii) For informational purposes the need for the proposed facility or expansion shall be demonstrated by one of the following methods:

(A) Current overall capacity within Washington is inadequate for dangerous wastes generated in Washington as determined by regional or state dangerous waste management plans; or

(B) The facility is a higher priority management method, as described in RCW 70.105.150, than is currently in place or practical and available for the types of waste proposed to be managed; or

(C) The facility will add to the types of technology available or will reduce cost impacts (not to include transportation costs) to Washington generators for disposal of dangerous wastes; and

(ix) For informational purposes it shall be shown how the capacity of the proposed facility or expansion will affect the overall capacity within the state, in conjunction with existing facilities in Washington.

(b) The notice of intent shall be filed with the department, and copies shall be made available for public review, no less than one hundred fifty days prior to filing an application for a permit or permit revision. Public notification of the notice of intent to file shall be given at the time of filing by announcement in a daily newspaper within the

area of the proposed facility or expansion for a minimum of fourteen consecutive days. In addition, the department shall send a copy of the notice of intent to the elected officials of the lead local government and all local governments within the potentially affected area as required by WAC 173-303-902 (5)(b)(i). The department will continue to coordinate with interested local governments throughout the review of the proposal.

(c) Reserved.

AMENDATORY SECTION (Amending WSR 90-20-016, filed 9/21/90, effective 10/22/90)

WAC 173-303-282 Siting criteria. (1) **Purpose.** This section establishes siting criteria which serve as an initial screen in the consideration of sites for dangerous waste management facilities. The purpose of the siting criteria is to immediately disqualify proposed dangerous waste facility sites in locations considered unsuitable or inappropriate for the management of dangerous wastes. Under RCW 70.105.200 (1)(d), siting criteria cannot prevent existing dangerous waste management facilities from operating at or below their present level of activity.

A proposed site which is not disqualified under these criteria will be further studied to determine if it qualifies under site specific rules. Compliance with the siting criteria does not imply that a given project at a given location poses an acceptable level of risk, nor does it commit the department to the issuance of a dangerous waste permit. Projects that demonstrate compliance with the siting criteria will be subjected to comprehensive environmental and technical review pursuant to applicable laws and regulations before the department makes a final decision on a dangerous waste permit.

The department may deny a permit or require protective measures such as engineering enhancements or increased setback distances from resources in order to ensure protection of human health and the environment.

(2) **Applicability.**

(a) Except as otherwise specifically provided, this section applies to:

(i) Owners/operators of proposed facilities; and
(ii) Owners or operators of existing land-based facilities at which an expansion of the land based unit is proposed;

(iii) Owners or operators of existing incinerators at which an expansion is proposed; and

(iv) Owners or operators proposing a significant expansion of other existing dangerous waste management facilities not subject to (a)(i), (ii) and (iii) of this subsection, unless the owner/operator can demonstrate to the satisfaction of the department that the proposed expansion will provide a net increase in protection to human health and the environment beyond that which is currently provided at the facility. However, demonstrations under this subsection (iv) shall not result in treatment or storage facilities expanding into land-based or incineration facilities if siting criteria cannot be satisfied.

(b) This section does not apply to:

(i) Owners/operators of facilities or portions of facilities who are applying for research, development and demonstration permits, pursuant to section 3005(g) of the Resource

Conservation and Recovery Act, codified in 40 CFR Part 270.65 or WAC 173-303-809;

(ii) Owners/operators of facilities operating under an emergency permit pursuant to WAC 173-303-804;

(iii) Persons at facilities conducting on-site cleanup of sites under the Comprehensive Environmental Response Compensation and Liability Act, Sections 3004(u), 3004(v), and 3008(h) of the Resource Conservation and Recovery Act, chapter 70.105 RCW, or chapter 70.105D RCW, provided the cleanup activities are being conducted under a consent decree, agreed order, or enforcement order, or is being conducted by the department or United States Environmental Protection Agency;

(iv) Persons managing solid wastes who become subject to dangerous waste regulations through amendments to this chapter after the effective date of this section. This provision applies only to those activities operated in accordance with local, state, and federal requirements and which were being conducted prior to becoming subject to Dangerous waste regulations, chapter 173-303 WAC or expansions, if it can be demonstrated to the satisfaction of the department that the proposed expansion of such activities will provide a net increase in protection to human health and the environment beyond that which is currently provided at the facility; or

(v) Owners/operators of facilities which recycle hazardous waste and:

(A) Are otherwise exempt from regulation by this chapter under 120(~~(4)~~ or 515);

(B) Have notified the department pursuant to WAC 173-303-060, prior to the effective date of this section;

(C) Are currently operating as a recycling facility as of the effective date of this regulation; and

(D) Seek only to obtain a tank or container storage permit to support ~~(the)~~ recycling operations under this chapter.

Further, significant expansions of such storage facilities meeting the qualifications for this exemption may be considered under subsection (2)(a)(iv) of this section.

(3) **Definitions.** Any terms used in this section that are not defined below shall have the meanings provided in WAC 173-303-040. For the purposes of this section, the following terms shall have the described meanings:

(a) "Aquifer of beneficial use" means an aquifer that contains sufficient quality and quantity of water to allow it to be withdrawn for beneficial uses which include, but are not limited to, uses for domestic, stock watering, industrial, commercial, agricultural, irrigation, mining, fish and wildlife maintenance and enhancement, or recreational purposes.

(b) "Displacement" means the relative movement of any two sides of a fault measured in any direction.

(c) "Domestic water use" means any water used for human consumption, other domestic activities or livestock watering for which the department has issued a permit of water right for surface water diversions pursuant to chapter 90.03 RCW, or for a well pursuant to chapter 90.44 RCW, or for which the department has received a well water report pursuant to RCW 18.104.050, or for any other valid water right claimed in accordance with chapter 90.14 RCW. This does not apply to wells abandoned in compliance with chapter 173-160 WAC.

(d) "Existing facility" means a facility which has qualified for interim status under WAC 173-303-805 or for which the department has issued a final facility permit under WAC 173-303-806, prior to the effective date of this section.

(e) "Expansion" means the enlargement of the land surface area of an existing facility from that described in an interim status permit application or final facility permit, the addition of a new dangerous waste management process, or an increase in overall design capacity of existing dangerous waste management processes at a facility. However, a process or equipment change within the existing handling code (not to include "other") as defined under WAC 173-303-380 (2)(d) will not be considered a new dangerous waste management process.

(f) "Fault" means a fracture along which rocks or soils on one side have been displaced with respect to those on the other side.

(g) "Holocene" means the most recent epoch of the Quaternary period, extending from the end of the Pleistocene to the present.

(h) "Land-based facility" means a dangerous waste management facility which falls under the definition of land disposal as defined in Section 3004(k) of the Resource Conservation and Recovery Act. These facilities use the land as an integral part of their waste management method and include, but are not limited to, landfills, surface impoundments, waste piles, and land treatment facilities. For the purposes of this section, this would not include waste piles in which the dangerous wastes are stored inside or under a structure that provides protection from precipitation and when runoff, leachate, or other types of waste dispersal are not generated under any conditions.

(i) "Nonland based facility" means a facility which does not use the land as an integral part of its waste management method and is not subject to the requirements of WAC 173-303-806 (4)(a)(xxi). These facilities include, but are not limited to, tanks, containers, and incinerators.

(j) "Perennial surface water body" means a surface water body which is normally continuous with natural flows throughout the year or an annually recurring body of water including lakes, rivers, ponds, streams, reservoirs, inland waters, and saltwaters. This does not include roadside ditches or storm drains. However, this definition does apply to irrigation or domestic water supply channels existing, or planned and approved by a governmental agency, at the time an owner/operator submits a notice of intent.

(k) "Preempted facility" means any facility that includes as a significant part of its activities any of the following operations: (i) Landfill; (ii) incineration; (iii) land treatment; (iv) surface impoundment to be closed as a landfill; or (v) waste pile to be closed as a landfill.

(l) "Prime farmland" means the land which has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber or oilseed crops, and is also available for these uses. It has the soil quality, growing season, and moisture supply needed to economically produce sustained high yields of crops when treated and managed, including water management, according to acceptable farming methods. In general, prime farmland has an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, acceptable salt and sodium

content, and few or no rocks. It is permeable to water and air. Prime farmland is not excessively erodible or saturated with water for a long period of time, and it either does not flood frequently or is protected from flooding. Prime farmland shall be determined by those general and specific criteria as defined in the National Soils Handbook, Soil Conservation Service, United States Department of Agriculture, Washington, D.C. and 7 CFR 2.62. Areas of prime farmland are identified in the most recent county soil survey maps prepared by the National Cooperative Soil Survey.

(m) "Proposed facility" means a facility which has not qualified for interim status under WAC 173-303-805 or for which the department has not issued a final facility permit under WAC 173-303-806 prior to the effective date of this section.

(n) "Public gathering places" means a place such as a public or private health care or child care facility; an educational institution; a church; a government institution not associated with dangerous waste management; or a retail shopping center.

(o) "Residence" means any dwelling including, but not limited to, private homes, rental homes, boarding houses, apartments, motels, or hotels.

(p) "Significant expansion" means an expansion of an existing facility, operating under interim status or a final status permit, that is considered a class three modification as designated by 40 CFR Parts 270.41 and 270.42. Examples include, but are not limited to, a modification or addition of container units resulting in greater than a twenty-five percent increase in the facility's container storage capacity, storage of different wastes in containers that require additional or different management practices from those authorized under interim status or by a final status permit, and a modification or addition of tank units resulting in greater than twenty-five percent increase in the facility's capacity. For the purposes of this section, a single or cumulative increase of greater than twenty-five percent of the process design capacity as described in the facility's original Part A permit application shall be considered a significant expansion.

(q) "Slope and soil instability" means areas for which there is credible evidence of, or the potential for, landslides, slumps, avalanches, earth or mud flows, or other unsuitable slope conditions.

(r) "Subsidence" means areas for which there is credible evidence of, or potential for, sinking of the land surface. Areas of subsurface mines, caves, cavernous materials, or where there has been significant removal of fluids may provide credible evidence of subsidence.

(s) "Wetland" means land transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification a wetland must have one or more of the following three attributes: (i) At least periodically, the land supports predominantly hydrophytes; (ii) the substrate is predominantly undrained hydric soil; and (iii) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year. The *Joint Federal Methodology for Identifying and Delineating Wetlands* shall be used for defining the upland boundary of wetlands.

(4) Implementation.

(a) Submittal of information to demonstrate compliance. Documentation that a proposed facility or expansion site meets the siting criteria shall be submitted to the department:

(i) In the notice of intent for those facilities for which a notice of intent is filed after the effective date of this section; or

(ii) Within ninety days of the effective date of this section for proposed facilities for which a notice of intent or an application for a Part B permit has been submitted to the department prior to the effective date of this section.

(b) Consultation by department. The department shall consult with the lead local government as defined in WAC 173-303-902 (4)(h) and consider those local land use, building, fire, air quality, and transportation standards to the extent they add to and do not conflict with the requirements of this section. Such consultation and consideration shall be made prior to the department's rendering of a tentative decision under subsection (4)(c) of this section.

(c) Response by department. Within sixty days of receipt of a demonstration of compliance, the department shall undertake one of the following actions:

(i) Return the demonstration of compliance as incomplete with written comments identifying the need for additional information. The owner or operator may resubmit the demonstration of compliance with complete information; or

(ii) Render a written tentative decision to approve or deny the demonstration of compliance.

(d) Public notice and hearing process. The department in making a tentative decision to approve or deny a demonstration of compliance with this section shall take the following actions:

(i) For land-based facilities and incinerators:

(A) The department shall publish a notice of its tentative decision in a daily or weekly newspaper of general circulation in the potentially affected area, and shall give notice by other reasonable methods to persons potentially affected.

(B) The department shall hold a public hearing at a location convenient to the public in the potentially affected area. Notice of the date, time, purpose, and place of the hearing shall be provided in the publication of notice.

(C) The department shall accept comments on its tentative decision for a minimum of forty-five days.

(D) After evaluating all public comments the department will make a final decision in accordance with chapter 34.05 RCW. The department will either approve or deny the owner/operator's demonstration of compliance.

(ii) For nonland-based facilities, excluding incinerators:

(A) The department shall publish a notice of its tentative decision in a daily or weekly newspaper of general circulation in the potentially affected area, and shall give notice by other reasonable methods to persons potentially affected.

(B) Upon the written request of any interested person, the department may hold a public hearing to consider public comments on the owner or operator's demonstration of compliance. A person requesting the hearing shall state the issues to be raised and explain why written comments would not suffice. In any case, if ten or more persons request a public hearing on the subject of the department's tentative decision, the department shall hold a public hearing for the purpose of receiving comments.

(C) The department shall accept comments on its tentative decision for a minimum of forty-five days.

(D) After evaluating all public comments the department will make a final decision in accordance with chapter 34.05 RCW. The department will either approve or deny the owner or operator's demonstration of compliance.

(5) **Appeal of a department decision.** Any person who is adversely affected by a decision of the department under this section may appeal the decision to the pollution control hearings board pursuant to the authority of WAC 173-303-845.

(6) **Criteria for elements of the natural environment.** The following siting criteria establish locations from which facilities are excluded and establish minimum setback distances from identified resources. Unless otherwise stated, setback distances are measured horizontally from the dangerous waste management unit boundary to the identified resource.

These criteria shall be used as an initial screening tool in the selection of sites which may be considered by the department for the purpose of managing dangerous waste. A more comprehensive evaluation of locational factors will occur during the department's review of a permit application. The department may deny a permit or impose additional setback distances or other permit requirements if necessary to protect human health and the environment.

(a) **Earth.** The intent of this subsection is to reduce the potential for the release of dangerous waste into the environment because of structural damage to facilities subject to the hazards identified below. The owner/operator shall provide supportive geologic, geotechnical, and soils information.

(i) **Seismic risk.** All dangerous waste management facilities shall be located such that the dangerous waste management unit boundary is located at least five hundred feet from a fault which has had displacement in Holocene times.

(ii) **Subsidence.** No dangerous waste management facility shall be located such that the dangerous waste management unit is within an area of subsidence.

(iii) **Slope or soil instability.** No dangerous waste management facility shall be located such that the dangerous waste management unit is within an area of slope or soil instability, nor in the areas affected by unstable slope or soil conditions.

(b) **Air.** The intent of this subsection is to reduce the potential for further degradation of air quality in areas currently experiencing air quality impacts.

(i) Incineration facilities shall not be located in a Class I Prevention of Significant Deterioration Air Quality Zone designated under the Federal Clean Air Act.

(ii) Incineration facilities shall not be located in a nonattainment area designated by the department unless compensating emission offset can be achieved.

(iii) Proposed incineration facilities shall comply with WAC 173-303-806 (4)(a)(xxii) during the permitting process.

(c) **Water.** The intent of this subsection is to reduce the potential for contaminating waters of the state in the event of a release of dangerous wastes.

(i) **Surface water.**

(A) **Flood, seiche, and tsunami protection.**

(I) No dangerous waste management facility shall be located within the one hundred-year flood plain as indicated

in the most current Federal Emergency Management Agency maps.

(II) The owner/operator of a nonland-based facility shall identify whether the facility is intended to be located within the five hundred-year flood plain, as indicated in the most current Federal Emergency Management Agency maps. Nonland-based facilities will require special design features so as to prevent flooding of the dangerous waste management unit in the event of a five hundred-year flood.

(III) Land-based facilities shall not be located within the five hundred-year flood plain as indicated in the most current Federal Emergency Management Agency maps.

(IV) Dangerous waste management facilities shall not be located in areas subject to seiches, or coastal flooding including tsunamis or storm surges as indicated in the most current maps of the National Flood Insurance Program of the Federal Emergency Management Agency.

(B) **Perennial surface water bodies.**

(I) Nonland-based facilities shall be located such that the dangerous waste management unit boundary is at least five hundred feet from a perennial surface water body.

(II) Land-based facilities shall be located such that the dangerous waste management unit boundary is at least one-quarter mile from a perennial surface water body.

(C) **Surface water supply.**

(I) No dangerous waste management facility shall be located in a watershed identified in the report submitted to, and approved by, the department of health under the authority of WAC 248-54-225(3), Watershed control.

(II) Nonland-based facilities shall be located such that the dangerous waste management unit boundary is at least five hundred feet from the nearest surface water intake for domestic water.

(III) Land-based facilities shall be located such that the dangerous waste management unit boundary is at least one-quarter mile from the nearest surface water intake for domestic water.

(ii) **Ground water.** To the extent feasible, proponents of land-based facilities should seek sites with natural site characteristics which are capable of providing protection of ground water resources. Natural features such as low permeability soils and substrata, relatively simple geologic formations, and high rates of (~~evapotranspiration~~ ~~[evapo-~~ ~~transpiration]~~) evapotranspiration in relation to the seasonal occurrence of precipitation are preferable for the locations of land-based facilities. Proposed land-based facilities shall comply with the contingent ground water protection program, WAC 173-303-806 (4)(a)(xxi), during the permitting process.

(A) **Depth to ground water.**

(I) Nonland-based facilities shall not be located in areas where there is less than ten feet vertical separation between the lowest point of the dangerous waste management unit and the seasonal high water level of the uppermost aquifer of beneficial use.

(II) Land-based facilities shall not be located in areas where there is less than fifty feet vertical separation between the lowest point of the dangerous waste management unit and the seasonal highwater level of the uppermost aquifer of beneficial use.

(B) **Sole source aquifer.** No land-based facilities shall be located over an area designated as a sole source aquifer

under section 1424(e) of the Federal Safe Drinking Water Act (P.L. 93-523).

(C) Ground water management areas. Owners/operators of facilities shall identify whether the proposed facility location is within a ground water management area, as proposed or certified pursuant to RCW 90.44.130. In order to maintain consistency with the purpose and substantive requirements of certified ground water management area plans, the department may require additional protective measures or reject inconsistent projects.

(D) Ground water intakes.

(I) Nonland-based facilities shall be located such that the dangerous waste management unit boundary is at least five hundred feet from the nearest ground water intake for domestic water.

(II) Land-based facilities shall be located such that the dangerous waste management unit boundary is at least one-quarter mile from the nearest ground water intake for domestic water.

(E) Special protection areas. Land-based facilities shall not be located within ground water special protection areas designated by ecology under the authority of chapter 90.48 RCW.

(d) Plants and animals: Intent. To reduce the potential for dangerous waste contaminating plant and animal habitat in the event of a release of dangerous wastes.

(i) Nonland-based facilities shall be located such that the dangerous waste management unit boundary is at least five hundred feet from the following areas:

(A) Wetlands;

(B) Designated critical habitat, for federally listed threatened or endangered species, as defined by the Endangered Species Act of 1973 (P.L. 93-205);

(C) Habitat designated by the Washington department of wildlife as habitat essential to the maintenance or recovery of any state listed threatened or endangered wildlife species;

(D) Natural areas which are acquired or voluntarily registered or dedicated by the owner under chapter 79.70 RCW, Natural area preserves; and

(E) State or federally designated wildlife refuge, preserve, or bald eagle protection area.

(ii) Land-based facilities shall be located such that the dangerous waste management unit boundary is at least one-quarter mile from those areas specified in item (i) above.

(e) Precipitation. The intent of this subsection is to reduce the potential for contaminating waters and soils of the state in the event of a release of dangerous wastes.

Land-based facilities shall not be located in areas having a mean annual precipitation level of greater than one hundred inches. The mean annual precipitation map in the U.S. Geological Survey Water-Resources Investigations Report 84-4279 shall be used to determine whether a land-based facility is proposed to be located in such an area.

(7) **Criteria for elements of the built environment.**

The following siting criteria establish locations from which facilities are excluded or which require separation from identified land uses. Unless otherwise stated, setback distances are measured horizontally from the dangerous waste management unit boundary to the identified land use.

These criteria shall be used as an initial screening tool in the selection of sites which may be considered by the department for the purpose of managing dangerous waste.

A more comprehensive evaluation of locational factors will occur during the department's review of a permit application. The department may deny a permit or impose additional setback distances or other permit requirements if necessary to protect human health and the environment.

(a) Adjacent land use.

(i) Nonland-based facilities shall be located such that the dangerous waste management unit boundary is at least two hundred feet from the nearest point of the facility property line.

(ii) Land-based facilities shall be located such that the dangerous waste management unit boundary is at least five hundred feet from the nearest point of the facility property line.

(b) Special land uses.

(i) Wild and scenic rivers. Dangerous waste management facilities shall not be located within the viewshed of users on wild and scenic rivers designated by the state or federal government.

(ii) Nonland-based facilities shall be located such that the dangerous waste management unit boundary is at least five hundred feet from the following:

(A) State or federally designated park, recreation area, or national monument;

(B) Wilderness area as defined by the Wilderness Act of 1964 (P.L. 88-577); and

(C) Land identified as prime farmland at the time a notice of intent is submitted to the department.

(iii) Land-based facilities shall be located such that the dangerous waste management unit boundary is at least one-quarter mile from those land uses specified in item (ii) above.

(c) Residences and public gathering places.

(i) Nonland-based facilities with the exception of incineration facilities shall be located such that the dangerous waste management unit boundary is at least five hundred feet from residences or public gathering places.

(ii) Incineration and land-based facilities shall be located such that the dangerous waste management unit boundary is at least one-quarter mile from residences or public gathering places.

(d) Land use compatibility. Owners/operators of nonpreempted facilities shall conform with local land use zoning designation requirements, as approved by the department under chapter 70.105 RCW.

(e) Archeological sites and historic sites. No dangerous waste management facility shall be located in an archeological site or historic site designated by the state or federal government.

AMENDATORY SECTION (Amending Order DE 83-36, filed 4/18/84)

WAC 173-303-290 Required notices. (1) The facility owner or operator who is receiving dangerous waste from ~~((a foreign source))~~ sources outside the United States shall notify the appropriate regional office of the department annually, and in writing at least four weeks in advance of the date the first shipment of waste is expected to arrive at the facility. ~~((Notice of subsequent shipments of the same waste from the same foreign source is not required.))~~ The notification must be in writing, signed by the importer and operator

of the receiving facility, and include the following information:

(a) Name, street address, mailing address, and telephone number of the exporter.

(b) Name, street address, mailing address, telephone number, and EPA/state ID number of the importer and receiving facility.

(c) A description of the dangerous waste and the EPA/state waste numbers, U.S. DOT proper shipping name, hazard class and ID number (UNNA) for each hazardous waste as identified in 49 CFR Parts 171 through 177.

(d) The estimated frequency or rate at which such waste is to be imported and the period of time over which such waste is to be imported.

(e) The estimated total quantity of the dangerous waste in units as specified in the instructions to the Uniform Hazardous Waste Manifest Form (8700-22).

(f) A description of the manner by which the dangerous waste will be treated, stored, disposed of, or recycled by the receiving facility.

Upon request by the department, the importer and/or receiving facility shall furnish to the department any additional information regarding the importation of dangerous waste.

(2) Before transferring ownership or operation of a facility during its active life or post-closure care period, the owner or operator shall notify the new owner or operator in writing of the requirements of this chapter 173-303 WAC.

(3) The owner or operator of a facility that receives dangerous waste from an off-site source (except where the owner or operator is also the generator) must inform the generator in writing that he has the appropriate permit(s) for, and will accept, the waste the generator is shipping. The owner or operator must keep a copy of this written notice as part of the operating record required under WAC 173-303-380(1).

AMENDATORY SECTION (Amending Order DE 83-36, filed 4/18/84)

WAC 173-303-300 General waste analysis. (1) Purpose. This section requires the facility owner or operator to confirm his knowledge about a dangerous waste before he stores, treats, or disposes of it. The purpose for the analysis is to insure that a dangerous waste is managed properly.

(2) The owner or operator shall obtain a detailed chemical, physical, and/or biological analysis of a dangerous waste, or nondangerous wastes if applicable under WAC 173-303-610 (4)(d), before he stores, treats, or disposes of it. This analysis must contain the information necessary to manage the waste in accordance with the requirements of this chapter 173-303 WAC. The analysis may include or consist of existing published or documented data on the dangerous waste, or on waste generated from similar processes, or data obtained by testing, if necessary.

(3) The owner or operator of an off-site facility shall confirm, by analysis if necessary, that each dangerous waste received at the facility matches the identity of the waste specified on the accompanying manifest or shipping paper.

(4) Analysis shall be repeated as necessary to ensure that it is accurate and current. At a minimum, analysis must be repeated:

(a) When the owner or operator has been notified, or has reason to believe, that the process or operation generating the dangerous waste, or nondangerous wastes if applicable under WAC 173-303-610 (4)(d), has significantly changed; and

(b) When a dangerous waste received at an off-site facility does not match the identity of the waste specified on the manifest or the shipping paper.

(5) Waste analysis plan. The owner or operator shall develop and follow a written waste analysis plan which describes the procedures he will use to comply with the waste analysis requirements of subsections (1), (2), (3), and (4) of this section. He must keep this plan at the facility, and the plan must contain at least:

(a) The parameters for which each dangerous waste, or nondangerous waste if applicable under WAC 173-303-610 (4)(d), will be analyzed, and the rationale for selecting these parameters;

(b) The methods of obtaining or testing for these parameters;

(c) The methods for obtaining representative samples of wastes for analysis (representative sampling methods are discussed in WAC 173-303-110(2));

(d) The frequency with which analysis of a waste will be reviewed or repeated to ensure that the analysis is accurate and current;

(e) The waste analyses which generators have agreed to supply;

(f) Where applicable, the methods for meeting the additional waste analysis requirements for specific waste management methods as specified in 40 CFR Part 265 Subparts F through R for interim status facilities and in WAC 173-303-395(1) and in WAC 173-303-630 through 173-303-670 for final status facilities; and

(g) For off-site facilities, the procedures for confirming that each dangerous waste received matches the identity of the waste specified on the accompanying manifest or shipping paper. This includes at least:

(i) The procedures for identifying each waste movement at the facility; and

(ii) The method for obtaining a representative sample of the waste to be identified, if the identification method includes sampling.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-320 General inspection. (1) The owner or operator shall inspect his facility to prevent malfunctions and deterioration, operator errors, and discharges which may cause or lead to the release of dangerous waste constituents to the environment, or a threat to human health. The owner or operator must conduct these inspections often enough to identify problems in time to correct them before they harm human health or the environment.

(2) The owner or operator shall develop and follow a written schedule for inspecting all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that help prevent, detect, or respond to hazards to the public health or the environment. In addition:

(a) He must keep the schedule at the facility;

(b) The schedule must identify the types of problems which are to be looked for during inspections;

(c) The schedule shall indicate the frequency of inspection for specific items. The frequency should be based on the rate of possible deterioration of equipment, and the probability of an environmental or human health incident. Areas subject to spills must be inspected daily when in use. At a minimum the inspection schedule shall also include the applicable items and frequencies required for the specific waste management methods described in 40 CFR Part 265 Subparts F through R for interim status facilities and in WAC 173-303-630 through 173-303-680 for final status facilities; and

(d) The owner or operator shall keep an inspection log or summary, including at least the date and time of the inspection, the printed name and the handwritten signature of the inspector, a notation of the observations made, an account of spills or discharges in accordance with WAC 173-303-145, and the date and nature of any repairs or remedial actions taken. The log or summary must be kept at the facility for at least five years from the date of inspection.

(3) The owner or operator shall remedy any problems revealed by the inspection, on a schedule which prevents hazards to the public health and environment. Where a hazard is imminent or has already occurred, remedial action must be taken immediately.

AMENDATORY SECTION (Amending Order DE 83-36, filed 4/18/84)

WAC 173-303-330 Personnel training. (1) Training program. The facility owner or operator shall provide a program of classroom instruction or on-the-job training for facility personnel. This program must teach personnel to perform their duties in a way that ensures the facility's compliance with this chapter 173-303 WAC, must teach facility personnel dangerous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed, must ensure that facility personnel are able to respond effectively to emergencies, and shall include those elements set forth in the training plan required in subsection (2) of this section. In addition:

(a) The training program shall be directed by a person knowledgeable in dangerous waste management procedures, and must include training relevant to the positions in which the facility personnel are employed;

(b) Facility personnel must participate in an annual review of the training provided in the training program;

(c) This program must be successfully completed by the facility personnel:

(i) Within six months after these regulations become effective; or

(ii) Within six months after their employment at or assignment to the facility, or to a new position at the facility, whichever is later.

Employees hired after the effective date of these regulations must be supervised until they complete the training program; and

(d) At a minimum, the training program shall familiarize facility personnel with emergency equipment and systems, and emergency procedures. The program shall include other

parameters as set forth by the department, but at a minimum shall include, where applicable:

(i) Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;

(ii) Key parameters for automatic waste feed cut-off systems;

(iii) Communications or alarm systems;

(iv) Response to fires or explosions;

(v) Response to ground-water contamination incidents; and

(vi) Shutdown of operations.

(2) Written training plan. The owner or operator shall develop a written training plan which must be kept at the facility and which must include the following documents and records:

(a) For each position related to dangerous waste management at the facility, the job title, the job description, and the name of the employee filling each job. The job description must include the requisite skills, education, other qualifications, and duties for each position;

(b) A written description of the type and amount of both introductory and continuing training required for each position; and

(c) Records documenting that facility personnel have received and completed the training required by this section. The department may require, on a case-by-case basis, that training records include employee initials or signature to verify that training was received.

(3) Training records. Training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

AMENDATORY SECTION (Amending Order DE 83-36, filed 4/18/84)

WAC 173-303-350 Contingency plan and emergency procedures. (1) Purpose. The purpose of this section and WAC 173-303-360 is to lessen the potential impact on the public health and the environment in the event of an emergency circumstance, including a fire, explosion, or unplanned sudden or nonsudden release of dangerous waste or dangerous waste constituents to air, soil, surface water, or ground water by a facility. A contingency plan must be developed to lessen the potential impacts of such emergency circumstances, and the plan shall be implemented immediately in such emergency circumstances.

(2) Contingency plan. Each owner or operator must have a contingency plan at his facility for use in emergencies or sudden or nonsudden releases which threaten the public health and the environment. If the owner or operator has already prepared a spill prevention control and countermeasures (SPCC) plan in accordance with Part 112 of Title 40 CFR or Part 1510 of chapter V, or some other emergency or contingency plan, he need only amend that plan to incorporate dangerous waste management provisions that are sufficient to comply with the requirements of this section and WAC 173-303-360.

(3) The contingency plan must contain the following:

(a) A description of the actions which facility personnel must take to comply with this section and WAC 173-303-360;

(b) A description of the actions which shall be taken in the event that a dangerous waste shipment, which is damaged or otherwise presents a hazard to the public health and the environment, arrives at the facility, and is not acceptable to the owner or operator, but cannot be transported, pursuant to the requirements of WAC 173-303-370(5), Manifest system, reasons for not accepting dangerous waste shipments;

(c) A description of the arrangements agreed to by local police departments, fire departments, hospitals, contractors, and state and local emergency response teams to coordinate emergency services as required in WAC 173-303-340(4);

(d) A current list of names, addresses, and phone numbers (office and home) of all persons qualified to act as the emergency coordinator required under WAC 173-303-360(1). Where more than one person is listed, one must be named as primary emergency coordinator, and others must be listed in the order in which they will assume responsibility as alternates. For new facilities only, this list may be provided to the department at the time of facility certification (as required by WAC 173-303-810 (14)(a)(i)), rather than as part of the permit application;

(e) A list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems, and decontamination equipment), where this equipment is required. This list must be kept up to date. In addition, the plan must include the location and a physical description of each item on the list, and a brief outline of its capabilities; and

(f) An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary. This plan must describe the signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes.

(4) Copies of contingency plan. A copy of the contingency plan and all revisions to the plan shall be:

(a) Maintained at the facility; and

(b) Submitted to all local police departments, fire departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services.

(5) Amendments. The owner or operator shall review and immediately amend the contingency plan, if necessary, whenever:

(a) Applicable regulations or the facility permit are revised;

(b) The plan fails in an emergency;

(c) The facility changes (in its design, construction, operation, maintenance, or other circumstances) in a way that materially increases the potential for fires, explosions, or releases of dangerous waste or dangerous waste constituents, or in a way that changes the response necessary in an emergency;

(d) The list of emergency coordinators changes; or

(e) The list of emergency equipment changes.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-390 Facility reporting. The owner or operator of a facility is responsible for preparing and submitting the reports described in this section.

(1) Unmanifested waste reports. If a facility accepts any dangerous waste from an off-site source without an accompanying manifest or shipping paper, and if the waste is not excluded from the manifest requirements of this chapter 173-303 WAC, then the owner or operator must prepare and submit a single copy of a report to the department within fifteen days after receiving the waste. The report form and instructions in the Unmanifested Dangerous Waste Report - Form 6 (which may be obtained from the department) must be used for this report. The report must include at least the following information:

(a) The EPA/state identification number, name, and address of the facility;

(b) The date the facility received the waste;

(c) The EPA/state identification number, name, and address of the generator and the transporter, if available;

(d) A description and the quantity of each unmanifested dangerous waste the facility received;

(e) The method of management for each dangerous waste;

(f) The certification signed by the owner or operator of the facility or his authorized representative; and

(g) A brief explanation of why the waste was unmanifested, if known.

(2) Annual reports. The owner or operator of a facility that holds an active EPA/state identification number shall prepare and submit a single copy of an annual report to the department by March 1 of each year. The report form and instructions in the TSD Facility Annual Dangerous Waste Report - Form 5 (which may be obtained from the department) must be used for this report. In addition, any facility which ships dangerous waste off-site must comply with the annual reporting requirements of WAC 173-303-220. The annual report must cover facility activities during the previous calendar year and must include, but is not limited to the following information:

(a) The EPA/state identification number, name, and address of the facility;

(b) The calendar year covered by the report;

(c) For off-site facilities, the EPA/state identification number of each dangerous waste generator from which the facility received a dangerous waste during the year. For imported shipments, the report must give the name and address of the foreign generator;

(d) A description and the quantity of each dangerous waste the facility received during the year. For off-site facilities, this information must be listed by EPA/state identification number of each generator;

(e) The method of treatment, storage, or disposal for each dangerous waste;

(f) The most recent closure cost estimate under WAC 173-303-620(3) (or 40 CFR 265.142 for interim status facilities), and for disposal facilities, the most recent post-closure cost estimate under WAC 173-303-620(5) (or 40 CFR 265.144 for interim status facilities); and

(g) The certification signed in accordance with the requirements of WAC 173-303-810(12).

(3) Additional reports. The owner or operator shall also report to the department releases of dangerous wastes, fires, and explosions as specified in WAC 173-303-360 (2)(k) and interim status groundwater monitoring data, as specified in 40 CFR 265.94 (a)(2) and (b)(2).

In addition, the owner or operator shall submit any other reports (including engineering reports, plans, and specifications) required by the department.

(4) Recordkeeping. The owner/operator of a facility shall keep a copy of all unmanifested waste reports, annual reports, and any other reports submitted to the department according to the requirements of this section for a period of three years from the date the report was submitted.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-400 Interim status facility standards.

(1) Purpose. The purpose of WAC 173-303-400 is to establish standards which define the acceptable management of dangerous waste during the period of interim status and until certification of final closure or, if the facility is subject to post-closure requirements, until post-closure responsibilities are fulfilled.

(2) Applicability.

(a) The interim status standards apply to owners and operators of facilities which treat, store, transfer, and/or dispose of dangerous waste. For purposes of this section, interim status shall apply to all facilities which comply fully with the requirements for interim status under Section 3005(e) of the Federal Resource Conservation and Recovery Act or WAC 173-303-805. The interim status standards shall also apply to those owners and operators of facilities in existence on November 19, 1980, for RCRA wastes and those facilities in existence on August 9, 1982, for state only wastes who have failed to provide the required notification pursuant to WAC 173-303-060 or failed to file Part A of the permit application pursuant to WAC 173-303-805 (4) and (5). Interim status shall end after final administrative disposition of the Part B permit application is completed, or may be terminated for the causes described in WAC 173-303-805(~~(7)~~) (8).

(b) Interim status facilities must meet the interim status standards by November 19, 1980, except that:

(i) Interim status facilities which handle only state designated wastes (i.e., not designated by 40 CFR Part 261) must meet the interim status standards by August 9, 1982; and

(ii) Interim status facilities must comply with the additional state interim status requirements specified in subsection (3)(c)(ii), (iii) and (v), of this section, by August 9, 1982.

(c) The requirements of the interim status standards do not apply to:

(i) Persons disposing of dangerous waste subject to a permit issued under the Marine Protection, Research and Sanctuaries Act;

(ii) ~~(Persons disposing of dangerous waste by underground injection which is permitted under the Safe Drinking Water Act)~~ Reserved;

(iii) The owner or operator of a POTW who treats, stores, or disposes of dangerous wastes, provided that he has a permit by rule pursuant to the requirements of WAC 173-303-802(4);

(iv) The owner or operator of a totally enclosed treatment facility or elementary neutralization or wastewater treatment units as defined in WAC 173-303-040, provided that he has a permit by rule pursuant to the requirements of WAC 173-303-802(5);

(v) Generators accumulating waste for less than ninety days except to the extent WAC 173-303-200 provides otherwise; ~~((and))~~

(vi) The addition, by a generator, of absorbent material to waste in a container, or of waste to absorbent material in a container, provided that these actions occur at the time the waste is first placed in containers or, in the case of repackaging of previously containerized waste into new containers, at the time the waste is first placed into the new containers and the generator complies with WAC 173-303-200 (1)(b) and 173-303-395 (1)(a) and (b);

(vii) The compaction or sorting, by a generator, of miscellaneous waste forms such as cans, rags, and bottles in a container, so long as the activity is solely for the purpose of reducing waste void space, and so long as these activities are conducted in a manner that protects human health and prevents any release to the environment and the generator complies with WAC 173-303-200 (1)(b) and 173-303-395 (1)(a) and (b).

(viii) Generators treating dangerous waste on-site in tanks or containers that are used for accumulation of such wastes provided the generator complies with the WAC 173-303-170(3).

(d) The owner or operator of an interim status facility which manages special waste may comply with the special requirements selected under WAC 173-303-550 through 173-303-560 in lieu of the interim status facility standards of this section, but only for those special wastes which he manages and only after the owner or operator has requested and the department has issued a notice of interim status modification.

(3) Standards.

(a) Interim status standards shall be standards set forth by the Environmental Protection Agency in 40 CFR Part 265 Subparts F through R which are incorporated by reference into this regulation (including, by reference, any EPA requirements specified in those subparts which are not otherwise explicitly described in this chapter), and:

(i) The land disposal restrictions of WAC 173-303-140 and the facility requirements of WAC 173-303-280 through 173-303-440; and the corrective action requirements of WAC 173-303-646(2);

(ii) WAC 173-303-630(3), for containers. In addition, for container storage, the department may require that the storage area include secondary containment in accordance with WAC 173-303-630(7), if the department determines that there is a potential threat to public health or the environment due to the nature of the wastes being stored, or due to a history of spills or releases from stored containers. Any new container storage areas constructed or installed after September 30, 1986, must comply with the provisions of WAC 173-303-630(7).

(iii) WAC 173-303-640 (5)(d), for tanks; and

(iv) WAC 173-303-805.

(b) For purposes of applying the interim status standards of 40 CFR Part 265 Subparts F through R to the state of Washington facilities, the federal terms shall have (and in the case of the wording used in the financial instruments referenced in Subpart H of Part 265, shall be replaced with) the following state of Washington meanings:

(i) "Regional administrator" shall mean the "department";

(ii) "Hazardous" shall mean "dangerous"; and

(iii) "Compliance procedure" shall have the meaning set forth in WAC 173-303-040, Definitions.

(c) In addition to the changes described in (b) of this subsection, the following modifications shall be made to interim status standards of 40 CFR Part 265 Subparts F through R:

(i) The words "the effective date of these regulations" shall mean:

(A) November 19, 1980, for facilities which manage any wastes designated by 40 CFR Part 261;

(B) For wastes which become designated by 40 CFR Part 261 subsequent to November 19, 1980, the effective date shall be the date on which the wastes become regulated;

(C) March 12, 1982, for facilities which manage wastes designated only by WAC 173-303-080 through (~~473-303-103~~) 173-303-100 and not designated by 40 CFR Part 261;

(D) For wastes which become designated only by WAC 173-303-080 through (~~473-303-103~~) 173-303-100 and not designated by 40 CFR Part 261 subsequent to March 12, 1982, the effective date shall be the date on which the wastes become regulated.

(ii) "Subpart N - landfills" shall have an additional section added which reads: "An owner/operator shall not landfill an organic carcinogen or an EHW, as defined by WAC 173-303-080 (~~to 173-303-103~~) through 173-303-100, except at the EHW facility at Hanford";

(iii) "Subpart R - underground injection" shall have an additional section which reads: "Owners and operators of wells are prohibited from disposing of EHW or an organic carcinogen designated under WAC 173-303-080 through (~~473-303-103~~) 173-303-100";

(iv) "Subpart M - land treatment," section 265.273(b) shall be modified to replace the words "Part 261, Subpart D of this chapter" with "WAC 173-303-080";

(v) "Subpart F - ground water monitoring," section 265.91(c) shall include the requirement that: "Groundwater monitoring wells shall be designed, constructed, and operated so as to prevent groundwater contamination. Chapter 173-160 WAC may be used as guidance in the installation of wells";

(vi) "Subpart H - financial requirements" shall have an additional section which reads: "Any owner or operator who can provide financial assurances and instruments which satisfy the requirements of WAC 173-303-620 will be deemed to be in compliance with 40 CFR Part 265 Subpart H". In 40 CFR Parts 265.143(g) and 265.145(g) the following sentence does not apply to the state: "If the facilities covered by the mechanisms are in more than one Region, identical evidence of financial assurance must be submitted to the maintained with the Regional Administrators of all such Regions."; and

(vii) "Subpart J - tank systems" section 265.193(a) shall be modified so that the dates by which secondary contain-

ment (which meets the requirements of that section) must be provided are the same as the dates in WAC 173-303-640 (4)(a).

(viii) "Subpart J - tank systems" section 265.191(a) shall be modified so that the date by which an assessment of a tank system's integrity must be completed is January 12, 1990.

(ix) "Subpart G - closure and post-closure" section 265.115 shall be modified to read "Within 60 days of completion of closure of each dangerous waste management unit (including tank systems and container storage areas) and within 60 days of completion of final closure..." In addition, the clean-up levels for removal or decontamination set forth at WAC 173-303-610 (2)(b) apply.

(x) "Subpart B - General Facility Standards. References to "EPA" (etc.), means the "department" except at 40 CFR 265.11. Additionally, references to "administrator" (etc.), means the "director" except at 40 CFR 265.12(a)."

(xi) The following sections and any cross-reference to these sections are not incorporated or adopted by reference:

(A) 40 CFR Parts 260.1 (b)(4)-(6) and 260.20-22.

(B) 40 CFR Parts 264.1 (d) and (f); 265.1 (c)(4); 264.149-150 and 265.149-150; 264.301(k); and 265.430.

(C) 40 CFR Parts 268.5 and 6; 268 subpart B; 268.42(b); and 268.44.

(D) 40 CFR Parts 270.1 (c)(1)(i); 270.60(b); and 270.64.

(E) 40 CFR Parts 124.1 (b)-(e); 124.4; 124.5(e); 124.9; 124.10 (a)(1)(iv); 124.12(e); 124.14(d); 124.15 (b)(2); 124.16; 124.17(b); 124.18; 124.19; and 124.21.

(F) 40 CFR Parts 2.106(b); 2.202(b); 2.205(i); 2.209 (b)-(c); 2.212-213; and 2.301-311.

AMENDATORY SECTION (Amending Order 88-24, filed 1/4/89)

WAC 173-303-505 Special requirements for recyclable materials used in a manner constituting disposal. (1) Applicability.

(a) This section applies to recyclable materials that are applied to or placed on the land:

(i) Without mixing with any other substance(s); or

(ii) After mixing or combining with any other substance(s). These materials will be referred to as "materials used in a manner that constitutes disposal."

(b) Products produced for the general public's use that are used in a manner that constitutes disposal and that contain recyclable materials are not presently subject to regulation if the recyclable materials have undergone a chemical reaction in the course of producing the product so as to become inseparable by physical means. Registered commercial fertilizers that are produced for the general public's use that contain recyclable materials also are not (~~presently~~) subject to regulation.

(2) Recyclable materials used in a manner that constitutes disposal are dangerous wastes and are subject to the following requirements:

(a) For generators, WAC 173-303-170 through 173-303-230;

(b) For transporters, WAC 173-303-240 through 173-303-270; and

(c) For facilities that store or use dangerous wastes in a manner constituting disposal, the applicable requirements of

WAC 173-303-280 through 173-303-840 (except that users of such products are not subject to these standards if the products meet the requirements of subsection (1)(b) of this section).

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-510 Special requirements for dangerous wastes burned for energy recovery. (1) Applicability.

(a) This section applies to generators, marketers, transporters, and burners of dangerous waste(s) fuels that are to be burned for energy recovery in any boiler or industrial furnace that is not regulated under Subpart O of 40 CFR Part 265 or WAC 173-303-670, except as provided by (b) of this subsection. ~~((Such dangerous wastes burned for energy recovery are termed "dangerous waste fuel." Fuel produced from dangerous waste by processing, blending, or other treatment is also dangerous waste fuel. (c) These regulations do not apply((, however,) to gas recovered from dangerous waste management activities when such gas is burned for energy recovery.(h))~~

(b) The following dangerous wastes are not subject to regulation under this section:

(i) Used oil burned for energy recovery if it is a dangerous waste because it:

(A) Exhibits a characteristic of dangerous waste identified in WAC 173-303-090; or

(B) Is designated as DW only through the criteria of WAC ~~((173-303-101 through 173-303-103))~~ 173-303-100; or

(C) Is a dangerous waste designated solely as W001.

Such used oil is subject to regulation under WAC 173-303-515 rather than this section.

Note: Used oil burned for energy recovery containing a listed waste (unless such listed waste is only state source W001) or a waste designated as EHW through the criteria of WAC ~~((173-303-101 through 173-303-103))~~ 173-303-100 (a) and (b) is subject to this section.

(ii) (Reserved.)

(2) Definitions. Any terms used in this section that are not defined below shall have the meanings provided in WAC 173-303-040. For the purposes of this section, the following terms shall have the described meanings:

(a) "Dangerous waste fuel" means dangerous waste burned or to be burned for energy recovery. Fuel produced from dangerous waste by processing, blending, or other treatment is also dangerous waste fuel.

(b) "Distributor" means persons who distribute but do not process or blend dangerous waste fuel. Distributors may broker fuel by arranging for the final disposition of the fuel. Distributors are regulated under subsection (6) of this section.

(c) "Blender" means persons who produce, process, or blend fuel from dangerous wastes. Blenders are regulated under subsection (7) of this section.

(d) "Marketer" means persons who are:

(i) Generators who market dangerous waste fuel directly to a burner. Generators are regulated under subsection (4) of this section;

(ii) Distributors, regulated under subsection (6) of this section;

(iii) Blenders, regulated under subsection (7) of this section.

(3) Prohibitions.

(a) A person may market dangerous waste fuel only:

(i) To persons, in state, who have notified the department of their dangerous waste fuel activities under WAC 173-303-060 and have an EPA/state identification number or to out-of-state marketers or burners who have notified the EPA or authorized state agency and who have an EPA/state identification number; and

(ii) ~~((If the fuel is burned))~~ When marketed to a burner, to persons who burn the fuel in boilers or industrial furnaces identified in (b) of this subsection.

(b) Dangerous waste fuel may be burned for energy recovery in ~~((only))~~ the following devices only;

(i) Industrial furnaces identified in WAC 173-303-040;

(ii) Boilers, as defined in WAC 173-303-040, that are identified as follows:

(A) Industrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes; or

(B) Utility boilers used to produce electric power, steam, or heated or cooled air or other gases or fluids for sale.

(c) No fuel which contains any dangerous waste may be burned in any cement kiln which is located within the boundaries of any incorporated municipality with a population greater than five hundred thousand (based on the most recent census statistics) unless such kiln fully complies with regulations under this chapter that are applicable to incinerators.

~~((3))~~ (4) Standards applicable to generators of dangerous waste fuel.

(a) All generators of dangerous waste that is used as a fuel or used to produce a fuel are subject to WAC 173-303-170 through 173-303-230.

(b) ~~((Generators who market dangerous waste fuel to a burner also are subject to subsection (5) of this section.))~~ Generators who are marketers. Generators are marketers if they send their waste fuel directly to a burner. Generators who are marketers must:

(i) Prohibitions. Comply with the prohibitions under subsection (3) of this subsection.

(ii) Notification. Comply with the notification requirements under WAC 173-303-060 for dangerous waste fuel activities. Generators who have previously notified the department of their dangerous waste management activities and obtained an EPA/state identification number, must renotify to identify their dangerous waste fuel activities.

(iii) Accumulation. Comply with accumulation requirements of WAC 173-303-200 or 173-303-201.

(iv) Storage. For generators who have interim or final status and exceed the accumulation time frames referenced in (b)(iii) of this subsection, comply with the storage provisions of:

(A) WAC 173-303-280 through 173-303-395; and

(B) WAC 173-303-800 through 173-303-840; and

(C) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities.

(v) Required notice. Obtain, prior to initiating the first shipment of dangerous waste fuel, a one time written and signed certification notice from the burner certifying that:

(A) The burner has notified as described under subsection (3) of this subsection; and

(B) The burner will burn the dangerous waste fuel only in an industrial furnace or boiler identified in subsection (3)(b) of this subsection.

(vi) Recordkeeping. Keep a copy of each certification notice received for at least five years from the date of the last dangerous waste fuel shipment to the burner who sent such notice.

(c) Generators who are burners also are subject to subsection ((6)) (8) of this section.

((4)) (5) Standards applicable to transporters of dangerous waste fuel. Transporters of dangerous waste fuel (and dangerous waste that is used to produce a fuel) are subject to the requirements of WAC 173-303-240 through 173-303-270.

((5)) (6) Standards applicable to ((marketers)) distributors of dangerous waste fuel.

((Persons who market dangerous waste fuel are termed "marketers," and are subject to the following requirements. Marketers include generators who market dangerous waste fuel directly to a burner, persons who receive dangerous waste from generators and produce, process, or blend dangerous waste fuel from these dangerous wastes, and persons who distribute but do not process or blend dangerous waste fuel.))

(a) Prohibitions. The prohibitions under subsection ((2)) (3) of this section;

(b) Notification. Notification requirements under WAC 173-303-060 for dangerous waste fuel activities. ((Even if a marketer has)) Distributors who have previously notified the department of ((his)) their dangerous waste management activities and obtained an EPA/state identification number, ((he)) must renotify to identify ((his)) their dangerous waste fuel activities.

(c) ((Storage-

(i) For short term accumulation by generators who are marketers of dangerous waste fuel, the applicable provisions of WAC 173-303-200 or 173-303-201;

(ii) For all marketers who store dangerous waste fuel, the applicable storage provisions of:

(A) WAC 173-303-280 through 173-303-395;

(B) WAC 173-303-420; and

(C) WAC 173-303-800 through 173-303-840;

(iii) For marketers with interim status permits who store dangerous waste fuel, the applicable storage provisions of WAC 173-303-400 including Subparts F through L of 40 CFR Part 265;

(iv) For marketers with final status permits who store dangerous waste fuel, the applicable storage provisions of:

(A) WAC 173-303-600 through 173-303-650; and

(B) WAC 173-303-660.

(d) Off-site shipment. The standards for generators in WAC 173-303-170 through 173-303-230 when a marketer initiates a shipment of dangerous waste fuel;)) Storage. Distributors who store dangerous waste fuels must comply with the applicable storage provisions of:

(i) WAC 173-303-280 through 173-303-395; and

(ii) WAC 173-303-800 through 173-303-840; and

(iii) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities;

(iv) The standards for generators in WAC 173-303-170 through 173-303-230.

(d) Off-site shipment. A distributor must meet the standards for generators in WAC 173-303-170 through 173-303-230 when the distributor initiates a shipment of dangerous waste fuel. Except that a distributor may not accumulate dangerous waste fuels under the accumulation provisions of WAC 173-303-200 or 173-303-201;

(e) Required notices.

(i) Before ((a marketer initiates)) initiating the first shipment of dangerous waste fuel to ((a burner or another marketer, he)) another distributor, a blender, or a burner, a distributor must obtain a one-time written and signed certification notice from the ((burner or marketer)) distributor, blender, or burner certifying that:

(A) The burner ((or marketer)), distributor, or blender has notified ((the department under WAC 173-303-060 and identified his waste as fuel activities)) as described under subsection (3) of this section; and

(B) If the recipient is a burner, the burner will burn the dangerous waste fuel only in an industrial furnace or boiler identified in subsection ((2)) (3)(b) of this section.

(ii) Before ((a marketer accepts)) accepting the first shipment of dangerous waste fuel from another ((marketer, he)) distributor or blender, the distributor must provide the other ((marketer)) distributor or blender with a one-time written and signed certification that ((he has notified the department under WAC 173-303-060 and identified his dangerous waste fuel activities)) the distributor has complied with the notification requirements described in subsection (3) of this section; and

(f) Recordkeeping. ((In addition to the applicable recordkeeping requirements of WAC 173-303-210 and 173-303-380, a marketer)) A distributor must keep a copy of each certification notice ((he receives)) received or ((sends)) sent for ((three)) at least five years from the date ((he last engages)) the distributor last engaged in a dangerous waste fuel marketing transaction with the person who ((sends or receives)) sent or received the certification notice.

((6)) (7) Standards applicable to blenders of dangerous waste fuels.

(a) Prohibitions. The prohibitions under subsection (3) of this section.

(b) Notification. Notification requirements under WAC 173-303-060 for dangerous waste fuel activities. Blenders who have previously notified the department of their dangerous waste management activities and obtained an EPA/state identification number, must renotify to identify their dangerous waste fuel activities.

(c) Facility. For tanks, containers, or other units used to hold dangerous waste prior to blending or processing; for blending or processing tanks, containers, or other units; and for tanks, containers, or other units, used to hold blended or processed fuel, blenders must comply with the applicable provisions of:

(i) WAC 173-303-280 through 173-303-395; and

(ii) WAC 173-303-800 through 173-303-840; and

(iii) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities;

(d) Off-site shipment. The standards for generators in WAC 173-303-170 through 173-303-230 when a blender initiates a shipment of dangerous waste fuel, except that a blender may not accumulate dangerous waste fuels under the accumulation provisions of WAC 173-303-200 or 173-303-201;

(e) Required notices.

(i) Before initiating the first shipment of dangerous waste fuel to another blender, a distributor, or a burner, a blender must obtain a one-time written and signed certification notice from the blender, distributor, or burner certifying that:

(A) The burner, distributor, or blender has notified as described under subsection (3) of this section; and

(B) If the recipient is a burner, the burner will burn the dangerous waste fuel only in an industrial furnace or boiler identified in subsection (3)(b) of this section.

(ii) Before accepting the first shipment of dangerous waste fuel from another blender or distributor, the blender must provide the other blender or distributor with a one-time written and signed certification that the blender has complied with the notification requirements described in subsection (3) of this section; and

(f) Recordkeeping. A blender must keep a copy of each certification notice received or sent for at least five years from the date the blender last engaged in a dangerous waste fuel marketing transaction with the person who sent or received the certification notice.

(8) Standards applicable to burners of dangerous waste fuel.

Owners and operators of industrial furnaces and boilers identified in subsection ~~((2))~~ (3)(b) of this section ~~((that burn dangerous fuel are "burners" and are subject to the following requirements))~~ must comply with:

(a) Prohibitions. The prohibitions under subsection ~~((2))~~ (3)~~((b))~~ of this section;

(b) Notification. Notification requirements under WAC 173-303-060 for dangerous waste fuel activities. ~~((Even if a burner))~~ A burner who has previously notified the department of ~~((his))~~ dangerous waste management activities and obtained an EPA/state identification number, ~~((he))~~ must renotify to identify ~~((his))~~ the dangerous waste fuel activities~~((:))~~;

(c) Storage.

(i) For short term accumulation by generators who burn their dangerous waste fuel on-site, the applicable provisions of WAC 173-303-200 or 173-303-201.

(ii) For all burners who store dangerous waste fuel, the applicable storage provisions of:

(A) WAC 173-303-280 through 173-303-395;

(B) ~~((WAC 173-303-420; and~~

~~((WAC 173-303-800 through 173-303-840;~~

(iii) For burners under interim status permits, the applicable storage provisions of WAC 173-303-400 including Subparts F through L of 40 CFR Part 265;

(iv) For burners with final facility permits, the applicable storage provisions of:

~~((A) WAC 173-303-600 through 173-303-650; and~~

~~((B) WAC 173-303-660;)) WAC 173-303-800 through 173-303-840; and~~

(C) WAC 173-303-400 for interim status facilities or WAC 173-303-600 through 173-303-680 for final status facilities;

(d) Required notices. Before a burner accepts the first shipment of dangerous waste fuel from a ~~((marketer, he))~~ distributor, or a blender, or a generator the burner must provide the ~~((marketer))~~ distributor, or the blender, or the generator a one-time written and signed notice certifying that:

(i) ~~((He))~~ The burner has notified ~~((the department under WAC 173-303-060 and identified his waste as fuel activities))~~ as described under subsection (3) of this section; and

(ii) ~~((He will burn the fuel only in a boiler or furnace))~~ The dangerous waste fuel will only be burned in an industrial furnace or boiler identified in subsection ~~((2))~~ (3)(b) of this section.

(e) Recordkeeping. In addition to the applicable recordkeeping requirements of WAC 173-303-380, a burner must keep a copy of each certification notice ~~((that he sends to a marketer for three))~~ sent for at least five years from the date ~~((he))~~ the burner last receives dangerous waste fuel from ~~((that marketer))~~ the person who received the certification notice.

(f) Local requirements. Any person who burns dangerous waste for energy recovery must comply with air emission requirements of the local air pollution control authority (or department of ecology if no local authority with jurisdiction exists).

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-515 Special requirements for used oil burned for energy recovery. (1) Applicability.

(a) This section applies to used oil that is burned for energy recovery in any boiler or industrial furnace that is not regulated under Subpart O of 40 CFR Part 265 or WAC 173-303-670, if such used oil:

(i) Exhibits any characteristic of a dangerous waste identified in WAC 173-303-090; or

(ii) Is designated as DW solely through WAC ~~((173-303-084 or 173-303-101 through 173-303-103))~~ 173-303-100; or

(iii) Is designated solely as W001.

(b)(i) This section does not apply to used oil burned for energy recovery that is mixed with a listed waste (except as provided in (a)(iii) of this subsection) or that is designated as EHW through WAC ~~((173-303-084 or 173-303-101 through 173-303-103))~~ 173-303-100. Such used oil is subject to the requirements of WAC 173-303-510.

(ii) Used oil containing more than 1000 ppm of total halogens is presumed to be a dangerous waste because it has been mixed with halogenated dangerous waste listed in WAC 173-303-9903 or 173-303-9904. Such dangerous wastes are subject to the requirements of WAC 173-303-510. Persons may rebut this presumption by demonstrating that the used oil does not contain dangerous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated dangerous constituents listed in WAC 173-303-9905).

(iii) This section does not apply to used oil that is designated for any reason other than being listed as W001 if such used oil is burned for energy recovery by the generator of the used oil in his own marine or diesel engines.

(c) If a used oil subject to this section does not exceed any of the specifications of Table 1, it is subject only to the analysis and recordkeeping requirements under subsection (4)(b)(i) and (vi) of this section; otherwise, it is subject to all applicable provisions of this section.

(d) For the purposes of this chapter:

(i) "Used oil" means any oil that has been refined from crude oil, used, and, as a result of such use, is contaminated by physical or chemical impurities;

(ii) Used oil fuel includes any fuel produced from used oil by processing, blending, or other treatments;

(iii) Used oil fuel that exceeds any specification level (described in Table 1) is termed "off-specification used oil fuel."

TABLE 1
USED OIL EXCEEDING ANY SPECIFICATION LEVEL IS SUBJECT TO THIS SECTION WHEN BURNED FOR ENERGY RECOVERY

| Constituent/property | Allowable level |
|---------------------------|--------------------|
| Arsenic | 5 ppm maximum |
| Cadmium | 2 ppm maximum |
| Chromium | 10 ppm maximum |
| Lead | 100 ppm maximum |
| Flash point | 100° F minimum |
| Total halogens | 4,000 ppm maximum* |
| Polychlorinated Biphenyls | 2 ppm maximum |

* Used oil containing more than 1,000 ppm total halogens is presumed to be a dangerous waste under the rebuttable presumption provided under (b)(ii) of this subsection. Such used oil is subject to WAC 173-303-510 rather than this section when burned for energy recovery unless the presumption of mixing can be successfully rebutted.

(2) Prohibitions.

(a) A person may market off-specification used oil for energy recovery only:

(i) To burners or other marketers who have notified the department of their used oil management activities stating the location and general description of such activities, and who have an EPA/state identification number; and

(ii) To burners who burn the used oil in an industrial furnace or boiler identified in (b) of this subsection.

(b) Off-specification used oil may be burned for energy recovery in only the following devices:

(i) Industrial furnaces identified in WAC 173-303-040; or

(ii) Boilers, as defined in WAC 173-303-040 that are identified as follows:

(A) Industrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes;

(B) Utility boilers used to produce electric power, steam, or heated or cooled air or other gases or fluids for sale; or

(C) Used oil-fired space heaters provided that:

(I) The heater burns only used oil that the owner or operator generates or used oil received from do-it-yourself oil changers who generate used oil as household waste;

(II) The heater is designed to have a maximum capacity of not more than 0.5 million Btu per hour; and

(III) The combustion gases from the heater are vented to the ambient air.

(3) Standards applicable to generators of used oil burned for energy recovery.

(a) Except as provided in (b) and (c) of this subsection generators of used oil are not subject to this section.

(b) Generators who market used oil directly to a burner are subject to subsection (4) of this section.

(c) Generators who burn used oil are subject to subsection (5) of this section.

(4) Standards applicable to marketers of used oil burned for energy recovery.

(a) Persons who market used oil fuel are termed "marketers." Except as provided below, marketers include generators who market used oil fuel directly to a burner, persons who receive used oil from generators and produce, process, or blend used oil fuel from these used oils. However, the following persons are not marketers subject to this section:

(i) Used oil generators, and collectors who transport used oil received only from generators, unless the generator or collector markets the used oil directly to a person who burns it for energy recovery. However, persons who burn some used oil fuel for purposes of processing or other treatment to produce used oil fuel for marketing are considered to be burning incidentally to processing. Thus, generators and collectors who market to such incidental burners are not marketers subject to this section;

(ii) Persons who market only used oil fuel that meets the specification under Table 1 of subsection (1) of this section and who are not the first person to claim the oil meets the specification (i.e., marketers who do not receive used oil from generators or initial transporters and marketers who neither receive nor market off-specification used oil fuel).

(b) Marketers are subject to the following requirements:

(i) Analysis of used oil fuel. Used oil fuel is subject to regulation under this section unless the marketer obtains analyses or other information documenting that the used oil fuel meets the specification provided under Table 1 of subsection (1) of this section.

(ii) Prohibitions. The prohibitions under subsection (2)(a) of this section;

(iii) Notification. Notification to the department stating the location and general description of used oil management activities. Even if a marketer has previously notified the department of his dangerous waste management activities under WAC 173-303-060 and obtained an EPA/state identification number, he must renotify to identify his used oil management activities.

(iv) Invoice system. When a marketer initiates a shipment of off-specification used oil, he must prepare and send the receiving facility an invoice containing the following information:

(A) An invoice number;

(B) His own EPA/state identification number and the EPA/state identification number of the receiving facility;

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(C) The names and addresses of the shipping and receiving facilities;

(D) The quantity of off-specification used oil to be delivered;

(E) The date(s) of shipment or delivery; and

(F) The following statement: "This used oil subject to Washington state department of ecology regulation under WAC 173-303-515;

Note: Used oil that meets the definition of combustible liquid (flash point below 200°F but at or greater than 100°F) or flammable liquid (flash point below 100°F) is subject to Department of Transportation Hazardous Materials Regulations at 49 CFR Parts 100-177.

(v) Required notices.

(A) Before a marketer initiates the first shipment of off-specification used oil to a burner or other marketer, he must obtain a one-time written and signed notice from the burner or marketer certifying that:

(I) The burner or marketer has notified the department stating the location and general description of his used oil management activities; and

(II) If the recipient is a burner, the burner will burn the off-specification used oil only in an industrial furnace or boiler identified in subsection (2)(b) of this section; and

(B) Before a marketer accepts the first shipment of off-specification used oil from another marketer subject to the requirements of this subsection, he must provide the marketer with a one-time written and signed notice certifying that he has notified the department of his used oil management activities; and

(vi) Recordkeeping.

(A) Used oil fuel that meets the specification. A marketer who first claims under (b)(i) of this subsection that used oil fuel meets the specification must keep copies of analysis (or other information used to make the determination) of used oil for three years. Such marketers must also record in an operating log and keep for three years the following information on each shipment of used oil fuel that meets the specification. Such used oil fuel is not subject to further regulation, unless it is subsequently mixed with dangerous waste or unless it is mixed with used oil so that it no longer meets the specification.

(I) The name and address of the facility receiving the shipment;

(II) The quantity of used oil fuel delivered;

(III) The date of shipment or delivery; and

(IV) A cross-reference to the record of used oil analysis (or other information used to make the determination that the oil meets the specification) required under (b)(vi)(A) of this subsection.

(B) Off-specification used oil fuel. A marketer who receives or initiates an invoice under the requirements of this section must keep a copy of each invoice for three years from the date the invoice is received or prepared. In addition, a marketer must keep a copy of each certification notice that he receives or sends for three years from the date he last engages in an off-specification used oil fuel marketing transaction with the person who sends or receives the certification notice.

(5) Standards applicable to burners of used oil burned for energy recovery.

Owners and operators of facilities that burn used oil fuel are "burners" and are subject to the following requirements:

(a) Prohibition. The prohibition under subsection (2)(b) of this section;

(b) Notification. Burners of off-specification used oil fuel and burners of used oil fuel who are the first to claim that the oil meets the specification provided under 173-303-515 (1)(c), and WAC 173-303-515 (1)(d)(ii) through (iii), except burners who burn specification oil that they generate must notify the department stating the location and general description of used oil management activities(~~(, except that)~~). Burners of used oil fuel that meets the specification who receive such oil from a marketer that previously notified EPA are not required to notify. Owners and operators of used oil-fired space heaters that burn used oil fuel under the provisions of subsection (2)(b)(ii) of this section are exempt from these notification requirements. Even if a burner has previously notified the department of his dangerous waste management activities under WAC 173-303-060 and obtained an identification number, he must renotify to identify his used oil management activities.

(c) Required notices. Before a burner accepts the first shipment of off-specification used oil fuel from a marketer, he must provide the marketer a one-time written and signed notice certifying that:

(i) He has notified the department stating the location and general description of his used oil management activities; and

(ii) He will burn the used oil only in an industrial furnace or boiler identified in subsection (2)(b) of this section; and

(d) Used oil fuel analysis.

(i) Used oil fuel burned by the generator is subject to regulation under this section unless the burner obtains analysis (or other information) documenting that the used oil meets the specification provided under Table 1 of subsection (1) of this section.

(ii) Burners who treat off-specification used oil fuel by processing, blending, or other treatment to meet the specification provided under Table 1 of subsection (1) of this section must obtain analyses (or other information) documenting that the used oil meets the specification.

(e) Recordkeeping. A burner who receives an invoice under the requirements of this section must keep a copy of each invoice for three years from the date the invoice is received. Burners must also keep for three years copies of analyses of used oil fuel as may be required by (d) of this subsection. In addition, he must keep a copy of each certification notice that he sends to a marketer for three years from the date he last receives off-specification used oil from that marketer.

(f) Local requirements. Any person who burns used oil for energy recovery, except for burning in used oil-fired space heaters that meet the provisions of subsection (2)(b)(ii) of this section, must comply with the air emission requirements of the local air pollution control authority (or department of ecology if no local authority with jurisdiction exists).

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-520 Special requirements for reclaiming spent lead acid battery wastes. This section applies to persons who reclaim spent lead-acid batteries that are recyclable materials ("spent batteries").

(1) Persons who generate, transport, or who store spent batteries but do not reclaim them are subject only to the requirements of WAC 173-303-050, 173-303-145 and 173-303-960 if such spent batteries are going to a battery reclaimer.

(2) Owners and operators of battery reclaiming facilities that store spent lead acid batteries prior to reclaiming them are subject to the following requirements:

(a) For all reclaimers, the applicable storage provisions of:

- (i) WAC 173-303-280 (2) and (3);
- (ii) WAC 173-303-282;
- (iii) WAC 173-303-283;
- ~~((iii))~~ (iv) WAC 173-303-290;
- ~~((iv))~~ (v) WAC 173-303-310 through 173-303-360;
- ~~((v))~~ (vi) WAC 173-303-380;
- ~~((vi))~~ (vii) WAC 173-303-390 (2) and (3);
- ~~((vii))~~ (viii) WAC 173-303-395;
- ~~((viii) WAC 173-303-420;))~~ and
- (ix) WAC 173-303-800 through 173-303-840.

(b) For reclaimers with interim status permits, the applicable storage provisions of WAC 173-303-400 including Subparts F through L of 40 CFR Part 265;

(c) For reclaimers with final facility permits, the applicable storage provisions of:

- (i) WAC 173-303-600 through 173-303-650; and
- (ii) WAC 173-303-660.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-600 Final facility standards. Purpose, scope, and applicability.

(1) The purpose of WAC 173-303-600 through 173-303-680; is to establish minimum state-wide standards which describe the acceptable management of dangerous waste. In addition to WAC 173-303-600 through 173-303-680, the final facility standards include WAC 173-303-280 through 173-303-395 ~~((and 173-303-420))~~.

(2) The final facility standards apply to owners and operators of all facilities which treat, store or dispose of dangerous waste, and which are not exempted by subsection (3) of this section.

(3) The final facility standards do not apply to:

(a) Persons whose disposal activities are permitted under the Marine Protection, Research and Sanctuaries Act, except that storage, or treatment facilities where dangerous waste is loaded onto an ocean vessel for incineration or disposal at sea are subject to final facility standards;

(b) Persons whose disposal activities are permitted under the underground injection control program of the Safe Drinking Water Act, except that storage, or treatment facilities needed to handle dangerous wastes are subject to final facility standards;

(c) The owner or operator of a POTW which treats, stores, or disposes of dangerous waste provided he has a

permit by rule pursuant to the requirements of WAC 173-303-802(4);

(d) A generator accumulating waste on site in compliance with WAC 173-303-200;

(e) The owner or operator of a facility which is permitted to manage solid waste pursuant to chapter 173-304 WAC, if the only dangerous waste the facility manages is excluded from regulation under this chapter by WAC 173-303-070(8);

(f) A farmer disposing of waste pesticides from his own use provided he complies with WAC 173-303-160 (2)(b);

(g) A transporter storing a manifested shipment of dangerous waste for ten days or less in accordance with WAC 173-303-240(5);

(h) Any person, other than an owner or operator who is already subject to the final facility standards, who is carrying out an immediate or emergency response to contain or treat a discharge or potential discharge of a dangerous waste or hazardous substance;

(i) The owner or operator of a facility which is in compliance with the interim status requirements of WAC 173-303-400 and 173-303-805, until final administrative disposition of his final facility permit;

(j) The owner or operator of a totally enclosed treatment unit as defined in WAC 173-303-040, provided that he has a permit by rule pursuant to the requirements of WAC 173-303-802(5); ~~((and))~~

(k) The addition, by a generator, of absorbent material to waste in a container, or of waste to absorbent material in a container, provided that these actions occur at the time the waste is first placed in containers or, in the case of repackaging of previously containerized waste into new containers, at the time the waste is first placed into the new containers and the generator complies with WAC 173-303-200 (1)(b) and 173-303-395 (1)(a) and (b);

(l) The compaction or sorting of miscellaneous waste forms such as cans, rags, and bottles in a container, so long as the activity is solely for the purpose of reducing waste void space, and so long as these activities are conducted in a manner that protects human health and prevents any release to the environment and the generator complies with WAC 173-303-200 (1)(b) and 173-303-395 (1)(a) and (b); and

(m) Generators treating dangerous waste on-site in tanks or containers that are used for accumulation of such wastes provided the generator complies with the WAC 173-303-170(3).

(4) The owner or operator of a final status TSD facility which manages special waste may comply with the special requirements selected under WAC 173-303-550 through 173-303-560 in lieu of the final facility standards of WAC 173-303-600 through 173-303-670, but only for those special wastes which he manages and only after the department has issued or modified his final facility permit in accordance with WAC 173-303-800 through 173-303-840 to incorporate the special requirements.

(5) The owner or operator of a facility which recycles dangerous waste may, for such recycled wastes only, comply with the applicable recycling standards specified in WAC 173-303-120 and 173-303-500 through 173-303-525 in lieu of the final facility standards.

(6) The owner or operator must comply with the special land disposal restrictions for certain dangerous wastes in WAC 173-303-140.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-610 Closure and postclosure. (1) Applicability.

(a) Subsections (2) through (6) of this section, (which concern closure), apply to the owners and operators of all dangerous waste facilities.

(b) Subsections (7) through (11) of this section, (which concern postclosure care), apply to the owners and operators of all regulated units (as defined in WAC 173-303-040) at which dangerous waste will remain after closure, to tank systems that are required under WAC 173-303-640(8) to meet the requirements of landfills, to surface impoundments, waste piles, and miscellaneous units as specified in WAC 173-303-650(6), 173-303-660(9), and 173-303-680(4), respectively and, unless otherwise authorized by the department, to the owners and operators of all facilities which, at closure, cannot meet the removal or decontamination limits specified in subsection (2)(b) of this section.

(c) For the purposes of the closure and postclosure requirements, any portion of a facility which closes is subject to the applicable closure and postclosure standards even if the rest of the facility does not close and continues to operate.

(2) Closure performance standard. The owner or operator must close the facility in a manner that:

(a)(i) Minimizes the need for further maintenance;

(ii) Controls, minimizes or eliminates to the extent necessary to protect human health and the environment, postclosure escape of dangerous waste, dangerous constituents, leachate, contaminated run-off, or dangerous waste decomposition products to the ground, surface water, ground water, or the atmosphere; and

(iii) Returns the land to the appearance and use of surrounding land areas to the degree possible given the nature of the previous dangerous waste activity.

(b) Where the closure requirements of this section, or of WAC 173-303-630(10), 173-303-640(8), 173-303-650(6), 173-303-655(8), 173-303-660(9), 173-303-670(8), or 173-303-680 (2) through (4) call for the removal or decontamination of dangerous wastes, waste residues, or equipment, bases, liners, soils or other materials containing or contaminated with dangerous wastes or waste residue, then such removal or decontamination must assure that the levels of dangerous waste or dangerous waste constituents or residues do not exceed:

(i) ~~((Background environmental levels, for any dangerous waste, managed at the facility, which either is listed under WAC 173-303-081 or 173-303-082 or is designated by the characteristics of WAC 173-303-090))~~ For soils, ground water, surface water, and air, the numeric cleanup levels calculated using residential exposure assumptions according to the Model Toxics Control Act Regulations, chapter 173-340 WAC as now or hereafter amended. Primarily, these will be numeric cleanup levels calculated according to MTCA Method B, although MTCA Method A may be used

as appropriate, see WAC 173-340-700 through 173-340-760, excluding WAC 173-340-745; and

~~(ii) ((At least the designation limits of WAC 173-303-084, or 173-303-101 through 173-303-103 for any dangerous waste, managed at the facility, which is not listed under WAC 173-303-081 or 173-303-082 and is not designated by the characteristics of WAC 173-303-090. In addition to these limits, the department may specify in the closure plan for a facility any lower limits for removal or decontamination which the department deems appropriate.))~~ For all structures, equipment, bases, liners, etc., clean closure standards shall be set by the department on a case-by-case basis in accordance with the closure performance standards of WAC 173-303-610 (2)(a)(ii) and in a manner that minimizes or eliminates post-closure escape of dangerous waste constituents.

(3) Closure plan; amendment of plan.

(a) The owner or operator of a dangerous waste management facility must have a written closure plan. In addition, certain surface impoundments and waste piles from which the owner or operator intends to remove or decontaminate the dangerous waste at partial or final closure are required by WAC 173-303-650(6) and 173-303-660(9) to have contingent closure plans. The plan must be submitted with the permit application, in accordance with WAC 173-303-806(4), and approved by the department as part of the permit issuance procedures under WAC 173-303-840. The approved closure plan will become a condition of any permit. The department's decision must assure that the approved closure plan is consistent with subsections (2), (3), (4), (5), and (6) of this section, and the applicable requirements of WAC 173-303-630(10), 173-303-640(8), 173-303-645, 173-303-650(6), 173-303-655(8), 173-303-660(9), 173-303-665(6), 173-303-670(8), and 173-303-680(2). A copy of the approved plan and all revisions to the plan must be furnished to the department upon request, including request by mail until final closure is completed and certified in accordance with subsection (6) of this section. The plan must identify steps necessary to perform partial and/or final closure of the facility at any point during its active life. The closure plan must include at least:

(i) A description of how each dangerous waste management unit at the facility will be closed in accordance with subsection (2) of this section;

(ii) A description of how final closure of the facility will be conducted in accordance with subsection (2) of this section. The description must identify the maximum extent of the operation which will be unclosed during the active life of the facility;

(iii) An estimate of the maximum inventory of dangerous wastes ever on-site over the active life of the facility. (Any change in this estimate is a minor modification under WAC 173-303-830(4));

(iv) A detailed description of the methods to be used during partial closures and final closure, including, but not limited to, methods for removing, transporting, treating, storing, or disposing of all dangerous wastes, and identification of the type(s) of the off-site dangerous waste management units to be used, if applicable;

(v) A detailed description of the steps needed to remove or decontaminate all dangerous waste residues and contaminated containment system components, equipment, structures,

and soils during partial and final closure, including, but not limited to, procedures for cleaning equipment and removing contaminated soils, methods for sampling and testing surrounding soils, and criteria for determining the extent of decontamination required to satisfy the closure performance standard;

(vi) A detailed description of other activities necessary during the closure period to ensure that all partial closures and final closure satisfy the closure performance standards, including, but not limited to, ground water monitoring, leachate collection, and run-on and run-off control; and

(vii) A schedule for closure of each dangerous waste management unit and for final closure of the facility. The schedule must include, at a minimum, the total time required to close each dangerous waste management unit and the time required for intervening closure activities which will allow tracking of the progress of partial and final closure. (For example, in the case of a landfill unit, estimates of the time required to treat or dispose of all dangerous waste inventory and of the time required to place a final cover must be included.) Additionally, for facilities that use trust funds to establish financial assurance under WAC 173-303-620 (4) or (6) and that are expected to close prior to the expiration of the permit, an estimate of the expected year of final closure.

(b) The owner or operator must submit a written notification of or request for a permit modification to authorize a change in operating plans, facility design, or the approved closure plan in accordance with the applicable procedures in WAC 173-303-800 through 173-303-840. The written notification or request must include a copy of the amended closure plan for review or approval by the department.

(i) The owner or operator may submit a written notification or request to the department for a permit modification to amend the closure plan at any time prior to the notification of partial or final closure of the facility.

(ii) The owner or operator must submit a written notification of or request for a permit modification to authorize a change in the approved closure plan whenever:

(A) Changes in operating plans or facility design affect the closure plan; or

(B) There is a change in the expected year of closure, if applicable; or

(C) In conducting partial or final closure activities, unexpected events require a modification of the approved closure plan.

(iii) The owner or operator must submit a written request for a permit modification including a copy of the amended closure plan for approval at least sixty days prior to the proposed change in facility design or operation, or no later than sixty days after an unexpected event has occurred which has affected the closure plan. If an unexpected event occurs during the partial or final closure period, the owner or operator must request a permit modification no later than thirty days after the unexpected event. An owner or operator of a surface impoundment or waste pile that intends to remove all dangerous waste at closure and is not otherwise required to prepare a contingent closure plan under WAC 173-303-650(6) or 173-303-660(9), must submit an amended closure plan to the department no later than sixty days from the date that the owner or operator or department determines that the dangerous waste management unit must be closed as

a landfill, subject to the requirements of WAC 173-303-665, or no later than thirty days from that date if the determination is made during partial or final closure. The department will approve, disapprove, or modify this amended plan in accordance with the procedures in WAC 173-303-800 through 173-303-840. The approved closure plan will become a condition of any permit issued.

(iv) The department may request modifications to the plan under the conditions described in (b)(ii) of this subsection. The owner or operator must submit the modified plan within sixty days of the department's request, or within thirty days if the change in facility conditions occurs during partial or final closure. Any modifications requested by the department will be approved in accordance with the procedures in WAC 173-303-800 through 173-303-840.

(c) Notification of partial closure and final closure.

(i) The owner or operator must notify the department in writing at least sixty days prior to the date on which he expects to begin closure of a surface impoundment, waste pile, land treatment, or landfill unit, or final closure of a facility with such a unit. The owner or operator must notify the department in writing at least forty-five days prior to the date on which he expects to begin final closure of a facility with only treatment or storage tanks, container storage, or incinerator units to be closed.

(ii) ~~((A))~~ The date when he "expects to begin closure" must be either:

(A) No later than thirty days after the date on which any dangerous waste management unit receives the known final volume of dangerous wastes or, if there is a reasonable possibility that the dangerous waste management unit will receive additional dangerous wastes, no later than one year after the date on which the unit received the most recent volume of dangerous waste. If the owner or operator of a dangerous waste management unit can demonstrate to the department that the dangerous waste management unit or facility has the capacity to receive additional dangerous wastes and he has taken, and will continue to take, all steps to prevent threats to human health and the environment, including compliance with all applicable permit requirements, the department may approve an extension to this one-year limit((-)); or

(B) For units meeting the requirements of subsection (4)(d) of this section, no later than thirty days after the date on which the dangerous waste management unit receives the known final volume of nondangerous wastes, or if there is a reasonable possibility that the dangerous waste management unit will receive additional nondangerous wastes, no later than one year after the date on which the unit received the most recent volume of nondangerous wastes. If the owner or operator can demonstrate to the department that the dangerous waste management unit has the capacity to receive additional nondangerous wastes and he has taken, and will continue to take, all steps to prevent threats to human health and the environment, including compliance with all applicable permit requirements, the department may approve an extension to this one-year limit.

(iii) If the facility's permit is terminated, or if the facility is otherwise ordered, by judicial decree or final order to cease receiving dangerous wastes or to close, then the requirements of (c) of this subsection do not apply. However, the owner or operator must close the facility in accor-

dance with the deadlines established in subsection (4) of this section.

(iv) Removal of wastes and decontamination or dismantling of equipment. Nothing in this subsection shall preclude the owner or operator from removing dangerous wastes and decontaminating or dismantling equipment in accordance with the approved partial or final closure plan at any time before or after notification of partial or final closure.

(4) Closure; time allowed for closure.

(a) Within ninety days after receiving the final volume of dangerous wastes, or the final volume of nondangerous wastes if the owner or operator complies with all applicable requirements in (d) and (e) of this subsection, at a dangerous waste management unit or facility, the owner or operator must treat, remove from the unit or facility, or dispose of on site, all dangerous wastes in accordance with the approved closure plan. The department may approve a longer period if the owner or operator complies with all applicable requirements for requesting a modification to the permit and demonstrates that he has taken and will continue to take all steps to prevent threats to human health and the environment, including compliance with all applicable permit requirements, and either:

(i) The activities required to comply with this paragraph will, of necessity, take longer than ninety days to complete; or

(ii)(A) The dangerous waste management unit or facility has the capacity to receive additional dangerous wastes, or has the capacity to receive nondangerous wastes if the owner or operator complies with (d) and (e) of this subsection;

(B) There is a reasonable likelihood that he or another person will recommence operation of the dangerous waste management unit or the facility within one year; and

(C) Closure of the dangerous waste management unit or facility would be incompatible with continued operation of the site.

(b) The owner or operator must complete partial and final closure activities in accordance with the approved closure plan and within one hundred eighty days after receiving the final volume of dangerous wastes, or the final volume of nondangerous wastes if the owner or operator complies with all applicable requirements in (d) and (e) of this subsection, at the dangerous waste management unit or facility. The department may approve an extension to the closure period if the owner or operator complies with all applicable requirements for requesting a modification to the permit and demonstrates that he has taken and will continue to take all steps to prevent threats to human health and the environment from the unclosed but not operating dangerous waste management unit or facility, including compliance with all applicable permit requirements, and either:

(i) The partial or final closure activities will, of necessity, take longer than one hundred eighty days to complete; or

(ii)(A) The dangerous waste management unit or facility has the capacity to receive additional dangerous wastes, or has the capacity to receive nondangerous wastes if the owner or operator complies with (d) and (e) of this subsection;

(B) There is reasonable likelihood that he or another person will recommence operation of the dangerous waste management unit or the facility within one year; and

(C) Closure of the dangerous waste management unit or facility would be incompatible with continued operation of the site.

(c) The demonstrations referred to in (a) and (b) of this subsection must be made as follows: The demonstrations in (a) of this subsection must be made at least thirty days prior to the expiration of the specified ninety-day period; and the demonstration in (b) of this subsection must be made at least thirty days prior to the expiration of the specified one hundred eighty-day period unless the owner or operator is otherwise subject to the deadlines in (d) of this subsection.

(d) The department may allow an owner or operator to receive only nondangerous wastes in a landfill, land treatment, or surface impoundment unit after the final receipt of dangerous wastes at that unit if:

(i) The owner or operator requests a permit modification in compliance with all applicable requirements in WAC 173-303-830 and 40 CFR Part 124 and in the permit modification request demonstrates that:

(A) The unit has the existing design capacity as indicated on the part A application to receive nondangerous wastes; and

(B) There is a reasonable likelihood that the owner or operator or another person will receive nondangerous wastes in the unit within one year after the final receipt of dangerous wastes; and

(C) The nondangerous wastes will not be incompatible with any remaining wastes in the unit, or with the facility design and operating requirements of the unit or facility under this part; and

(D) Closure of the dangerous waste management unit would be incompatible with continued operation of the unit or facility; and

(E) The owner or operator is operating and will continue to operate in compliance with all applicable permit requirements; and

(ii) The request to modify the permit includes an amended wastes analysis plan, ground water monitoring and response program, human exposure assessment required under RCRA section 3019, and closure and postclosure plan, and updated cost estimates and demonstrations of financial assurance for closure and postclosure care as necessary and appropriate, to reflect any changes due to the presence of dangerous constituents in the nondangerous wastes, and changes in closure activities, including the expected year of closure if applicable under subsection (3)(a)(vii) of this section, as a result of the receipt of nondangerous wastes following the final receipt of dangerous wastes; and

(iii) The request to modify the permit includes revisions, as necessary and appropriate, to affected conditions of the permit to account for the receipt of nondangerous wastes following receipt of the final volume of dangerous wastes; and

(iv) The request to modify the permit and the demonstration referred to in (d)(i) and (ii) of this subsection are submitted to the department no later than one hundred twenty days prior to the date on which the owner or operator of the facility receives the known final volume of dangerous wastes at the unit, or no later than ninety days after the effective date of this rule in the state in which the unit is located, whichever is later.

(e) In addition to the requirements in (d) of this subsection, an owner or operator of a dangerous wastes surface impoundment that is not in compliance with the liner and leachate collection system requirements in 42 U.S.C. 3004 (o)(1) and 3005 (j)(1) or 42 U.S.C. 3004 (o)(2) or (3) or 3005 (j)(2), (3), (4) or (13) must:

(i) Submit with the request to modify the permit:

(A) A contingent corrective measures plan, unless a corrective action plan has already been submitted under WAC 173-303-645(10); and

(B) A plan for removing dangerous wastes in compliance with (e)(ii) of this subsection; and

(ii) Remove all dangerous wastes from the unit by removing all dangerous liquids, and removing all dangerous sludges to the extent practicable without impairing the integrity of the liner(s), if any.

(iii) Removal of dangerous wastes must be completed no later than ninety days after the final receipt of dangerous wastes. The department may approve an extension to this deadline if the owner or operator demonstrates that the removal of dangerous wastes will, of necessity, take longer than the allotted period to complete and that an extension will not pose a threat to human health and the environment.

(iv) If a release that is a statistically significant increase (or decrease in the case of pH) over background values for detection monitoring parameters of constituents specified in the permit or that exceeds the facility's ground water protection standard at the point of compliance, if applicable, is detected in accordance with the requirements in ((~~subpart F of this part~~) WAC 173-303-645, the owner or operator of the unit:

(A) Must implement corrective measures in accordance with the approved contingent corrective measures plan required by (e)(i) of this subsection no later than one year after detection of the release, or approval of the contingent corrective measures plan, whichever is later;

(B) May continue to receive wastes at the unit following detection of the release only if the approved corrective measures plan includes a demonstration that continued receipt of wastes will not impede corrective action; and

(C) May be required by the department to implement corrective measures in less than one year or to cease the receipt of wastes until corrective measures have been implemented if necessary to protect human health and the environment.

(v) During the period of corrective action, the owner or operator shall provide semiannual reports to the department that describe the progress of the corrective action program, compile all ground water monitoring data, and evaluate the effect of the continued receipt of nondangerous wastes on the effectiveness of the corrective action.

(vi) The department may require the owner or operator to commence closure of the unit if the owner or operator fails to implement corrective action measures in accordance with the approved contingent corrective measures plan within one year as required in (e)(iv) of this subsection, or fails to make substantial progress in implementing corrective action and achieving the facility's ground water protection standard or background levels if the facility has not yet established a ground water protection standard.

(vii) If the owner or operator fails to implement corrective measures as required in (e)(iv) of this subsection or if

the department determines that substantial progress has not been made pursuant to (e)(vi) of this subsection the department shall:

(A) Notify the owner or operator in writing that the owner or operator must begin closure in accordance with the deadline in (a) and (b) of this subsection and provide a detailed statement of reasons for this determination; and

(B) Provide the owner or operator and the public, through a newspaper notice, the opportunity to submit written comments on the decision no later than twenty days after the date of the notice.

(C) If the department receives no written comments, the decision will become final five days after the close of the comment period. The department will notify the owner or operator that the decision is final, and that a revised closure plan, if necessary, must be submitted within fifteen days of the final notice and that closure must begin in accordance with the deadlines in (a) and (b) of this subsection.

(D) If the department receives written comments on the decision, it shall make a final decision within thirty days after the end of the comment period, and provide the owner or operator in writing and the public through a newspaper notice, a detailed statement of reasons for the final decision. If the department determines that substantial progress has not been made, closure must be initiated in accordance with the deadlines in (a) and (b) of this subsection.

(E) The final determinations made by the department under (e)(vii)(C) and (D) of this subsection are not subject to administrative appeal.

(5) Disposal or decontamination of equipment, structures and soils. During the partial and final closure periods, all contaminated equipment, structures and soils must be properly disposed of or decontaminated unless otherwise specified in WAC 173-303-640(8), 173-303-650(6), 173-303-655(8), 173-303-660(9), 173-303-665(6), or under the authority of WAC 173-303-680 (2) and (4). By removing any dangerous wastes or dangerous constituents during partial and final closure, the owner or operator may become a generator of dangerous waste and must handle that waste in accordance with all applicable requirements of WAC 173-303-170 through 173-303-230.

(6) Certification of closure. Within sixty days of completion of closure of each dangerous waste management unit (including tank systems and container storage areas), and within sixty days of the completion of final closure, the owner or operator must submit to the department by registered mail, a certification that the dangerous waste management unit or facility, as applicable, has been closed in accordance with the specifications in the approved closure plan. The certification must be signed by the owner or operator and by an independent registered professional engineer. Documentation supporting the independent registered professional engineer's certification must be furnished to the department upon request until it releases the owner or operator from the financial assurance requirements for closure under WAC 173-303-620(4).

(7) Postclosure care and use of property.

(a) Postclosure care for each dangerous waste management unit subject to postclosure requirements must begin after completion of closure of the unit and continue for thirty years after that date and must consist of at least the following:

(i) Ground water monitoring and reporting as applicable; and

(ii) Maintenance and monitoring of waste containment systems as applicable.

(b) Any time preceding partial closure of a dangerous waste management unit subject to postclosure care requirements or final closure, or any time during the postclosure period for a particular unit, the department may, in accordance with the permit modification procedures in WAC 173-303-800 through 173-303-840:

(i) Shorten the postclosure care period applicable to the dangerous waste management unit, or facility, if all disposal units have been closed, if it finds that the reduced period is sufficient to protect human health and the environment (e.g., leachate or ground water monitoring results, characteristics of the dangerous waste, application of advanced technology, or alternative disposal, treatment, or reuse techniques indicate that the dangerous waste management unit or facility is secure); or

(ii) Extend the postclosure care period applicable to the dangerous waste management unit or facility if it finds that the extended period is necessary to protect human health and the environment (e.g., leachate or ground water monitoring results indicate a potential for migration of dangerous waste at levels which may be harmful to human health and the environment).

(c) The department may require, at partial or final closure, continuation of any of the security requirements of WAC 173-303-310 during part or all of the postclosure period when:

(i) Dangerous wastes may remain exposed after completion of partial or final closure; or

(ii) Access by the public or domestic livestock may pose a hazard to human health.

(d) Postclosure use of property on or in which dangerous wastes remain after partial or final closure must never be allowed to disturb the integrity of the final cover, liner(s), or any other components of any containment system, or the function of the facility's monitoring systems, unless the department finds that the disturbance:

(i) Is necessary to the proposed use of the property, and will not increase the potential hazard to human health or the environment; or

(ii) Is necessary to reduce a threat to human health or the environment.

(e) All postclosure care activities must be in accordance with the provisions of the approved postclosure plan as specified in subsection (8) of this section.

(8) Postclosure plan; amendment of plan.

(a) The owner or operator of a dangerous waste disposal unit must have a written postclosure plan. In addition, certain surface impoundments and certain piles from which the owner or operator intends to remove or decontaminate the dangerous wastes at partial or final closure are required by WAC 173-303-650 and 173-303-660, respectively, to have written contingent postclosure plans. Owners or operators of surface impoundments and waste piles not otherwise required to prepare contingent postclosure plans under WAC 173-303-650 or 173-303-660 must submit a postclosure plan to the department within ninety days from the date that the owner or operator or department determines that the dangerous waste management unit must be closed as

a landfill, subject to the postclosure requirements. The plan must be submitted with the permit application, in accordance with WAC 173-303-806, and approved by the department as part of the permit issuance procedures under WAC 173-303-840. The approved postclosure plan will become a condition of any permit issued.

(b) For each dangerous waste management unit subject to the requirements of this subsection, the postclosure plan must identify the activities which will be carried on after closure and the frequency of these activities, and include at least:

(i) A description of the planned ground water monitoring activities and frequencies at which they will be performed;

(ii) A description of the planned maintenance activities, and frequencies at which they will be performed, to ensure:

(A) The integrity of the cap and final cover or other containment structures where applicable; and

(B) The function of the facility monitoring equipment;

(iii) And the name, address, and phone number of the person or office to contact about the dangerous waste disposal unit or facility during the postclosure care period.

(c) Until final closure of the facility, a copy of the approved postclosure plan must be furnished to the department upon request, including request by mail. After final closure has been certified, the person or office specified in (b)(iii) of this subsection must keep the approved postclosure plan during the remainder of the postclosure period.

(d) Amendment of plan. The owner or operator must submit a written notification of or request for a permit modification to authorize a change in the approved postclosure plan in accordance with the applicable requirements of WAC 173-303-800 through 173-303-840. The written notification or request must include a copy of the amended postclosure plan for review or approval by the department.

(i) The owner or operator may submit a written notification or request to the department for a permit modification to amend the postclosure plan at any time during the active life of the facility or during the postclosure care period.

(ii) The owner or operator must submit a written notification of or request for a permit modification to authorize a change in the approved postclosure plan whenever:

(A) Changes in operating plans or facility design affect the approved postclosure plan; or

(B) There is a change in the expected year of final closure, if applicable; or

(C) Events which occur during the active life of the facility, including partial and final closures, affect the approved postclosure plan.

(iii) The owner or operator must submit a written request for a permit modification at least sixty days prior to the proposed change in facility design or operation, or no later than sixty days after an unexpected event has occurred which has affected the postclosure plan. An owner or operator of a surface impoundment or waste pile that intends to remove all dangerous waste at closure and is not otherwise required to submit a contingent postclosure plan under WAC 173-303-650 or 173-303-660 must submit a postclosure plan to the department no later than ninety days after the date that the owner or operator or department

determines that the dangerous waste management unit must be closed as a landfill, subject to the requirements of WAC 173-303-665. The department will approve, disapprove, or modify this plan in accordance with the procedures in WAC 173-303-800 through 173-303-840. The approved postclosure plan will become a permit condition.

(iv) The department may request modifications to the plan under the conditions described in (d)(ii) of this subsection. The owner or operator must submit the modified plan no later than sixty days after the department's request, or no later than ninety days if the unit is a surface impoundment or waste pile not previously required to prepare a contingent postclosure plan. Any modifications requested by the department will be approved, disapproved, or modified in accordance with the procedures in WAC 173-303-800 through 173-303-840.

(9) Notice to local land authority. No later than the submission of the certification of closure of each dangerous waste disposal unit, the owner or operator of a disposal facility must submit to the local zoning authority or the authority with jurisdiction over local land use and to the department a survey plat indicating the location and dimensions of landfill cells or other dangerous waste disposal units with respect to permanently surveyed benchmarks. This plat must be prepared and certified by a professional land surveyor. The plat filed with the local zoning authority or the authority with jurisdiction over local land use must contain a note, prominently displayed, which states the owner's or operator's obligation to restrict disturbance of the dangerous waste disposal unit in accordance with the applicable requirements of this section. In addition, no later than sixty days after certification of closure of each dangerous waste disposal unit, the owner or operator must submit to the local zoning authority or the authority with jurisdiction over local land use and to the department, a record of the type, location, and quantity of dangerous wastes disposed of within each cell or other disposal unit of the facility. For wastes disposed of before November 19, 1980 (March 12, 1982, for facilities subject to this chapter but not subject to 40 CFR Part 264), the owner or operator must identify the type, location, and quantity of the dangerous wastes to the best of his knowledge and in accordance with any records he has kept.

(10) Notice in deed to property.

(a) No later than sixty days after certification of closure of each dangerous waste disposal unit, the owner or operator must submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the department a record of the type, location, and quantity of dangerous wastes disposed of within each cell or other disposal unit of the facility. For hazardous wastes (as defined in WAC 173-303-040) disposed of before January 12, 1981, the owner or operator must identify the type, location, and quantity of the dangerous wastes to the best of his knowledge and in accordance with any records he has kept.

(b) Within sixty days of certification of closure of the first dangerous waste disposal unit and within sixty days of certification of closure of the last dangerous waste disposal unit, the owner or operator must:

(i) Record, in accordance with state law, a notation on the deed to the facility property, or on some other instrument

which is normally examined during title search, that will in perpetuity notify any potential purchaser of the property that:

(A) The land has been used to manage dangerous wastes;

(B) Its use is restricted under this section; and

(C) The survey plat and record of the type, location, and quantity of dangerous wastes disposed of within each cell or other dangerous waste disposal unit of the facility required in subsection (9) of this section have been filed with the local zoning authority, or the authority with jurisdiction over local land use, and with the department; and

(ii) Submit a certification, signed by the owner or operator, that he has recorded the notation specified in (b)(i) of this subsection, including a copy of the document in which the notation has been placed, to the department.

(c) If the owner or operator or any subsequent owner of the land upon which a dangerous waste facility was located wishes to remove dangerous wastes and dangerous waste residues, the liner, if any, or contaminated soils, he must request a modification to the postclosure permit in accordance with the applicable requirements in WAC 173-303-800 through 173-303-840. The owner or operator must demonstrate that the removal of dangerous wastes will satisfy the criteria of subsection (7)(d) of this section. By removing dangerous waste, the owner or operator may become a generator of dangerous waste and must manage it in accordance with all applicable requirements of this chapter. If he is granted a permit modification or otherwise granted approval to conduct such removal activities, the owner or operator may request that the department approve either:

(i) The removal of the notation on the deed to the facility property or other instrument normally examined during title search; or

(ii) The addition of a notation to the deed or instrument indicating the removal of the dangerous waste.

(11) Certification of completion of postclosure care. No later than sixty days after completion of the established postclosure care period for each dangerous waste disposal unit, the owner or operator must submit to the department, by registered mail, a certification that the postclosure care period for the dangerous waste disposal unit was performed in accordance with the specifications in the approved postclosure plan. The certification must be signed by the owner or operator and an independent registered professional engineer. Documentation supporting the independent registered professional engineer's certification must be furnished to the department upon request until he releases the owner or operator from the financial assurance requirements for postclosure care under WAC 173-303-620(6).

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-630 Use and management of containers. (1) Applicability. The regulations in this section apply to owners and operators of all dangerous waste facilities that store containers of dangerous waste.

(2) Condition of containers. If a container holding dangerous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the owner or operator must transfer the dangerous waste from the container to a container that is in good condition or

manage the waste in some other way that complies with the requirements of chapter 173-303 WAC. In addition, the owner or operator must address leaks and spills in accordance with the applicable provisions of WAC 173-303-145 and 173-303-360.

(3) Identification of containers. The owner or operator must label containers in a manner which adequately identifies the major risk(s) associated with the contents of the containers for employees, emergency response personnel and the public (Note—If there is already a system in use that performs this function in accordance with local, state or federal regulations, then such system will be adequate). The owner or operator must affix labels upon transfer of dangerous wastes from one container to another. The owner or operator must destroy or otherwise remove labels from the emptied container, unless the container will continue to be used for storing dangerous waste at the facility. The owner or operator must ensure that labels are not obscured, removed, or otherwise unreadable in the course of inspection required under WAC 173-303-320.

(4) Compatibility of waste with containers. The owner or operator must use a container made of or lined with materials which will not react with, and are otherwise compatible with, the dangerous waste to be stored, so that the ability of the container to contain the waste is not impaired.

(5) Management of containers.

(a) A container holding dangerous waste must always be closed, except when it is necessary to add or remove waste.

(b) A container holding dangerous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

(c) A minimum thirty-inch separation is required between aisles of containers holding dangerous waste(s). A row of drums must be no more than two drums wide.

(6) Inspections. At least weekly, the owner or operator must inspect areas where containers are stored, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion, deterioration, or other factors. The owner or operator shall keep an inspection log including at least the date and time of the inspection, the printed name and the handwritten signature of the inspector, a notation of the observations made and the date and nature of any repairs or remedial actions taken. The log must be kept at the facility for at least five years from the date of inspection.

(7) Containment.

(a) Container storage areas must have a containment system that is capable of collecting and holding spills and leaks. In addition to the necessary leak containment capacity, uncovered storage areas must be capable of holding the additional volume that would result from the precipitation of a maximum twenty-five year storm of twenty-four hours duration. The containment system must:

(i) Have a base underlying the containers which is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated rainfall until the collected material is detected and removed. The base must be sloped or the containment system must be otherwise designed and operated to drain and remove liquids resulting from leaks, spills, or precipitation, unless the containers are elevated or

are otherwise protected from contact with accumulated liquids;

(ii) Be designed for positive drainage control (such as a locked drainage valve) to prevent release of contaminated liquids and so that uncontaminated precipitation can be drained promptly for convenience of operation. Spilled or leaked waste and accumulated precipitation must be removed from the containment system in as timely a manner as is necessary to prevent overflow; and

(iii) Have sufficient capacity to contain ten percent of the volume of all containers or the volume of the largest container, whichever is greater. Only containers holding free liquids, or holding wastes designated as F020, F021, F022, F023, F026, or F027 need to be considered in this determination.

(b) Run-on into the containment system must be prevented, unless the department waives this requirement in the permit after determining that the collection system has sufficient excess capacity in addition to that required in (a)(iii) of this subsection to accommodate any run-on which might enter the system.

(c) Storage areas that store containers holding only wastes that do not contain free liquids, do not exhibit either the characteristic of ignitability or reactivity as described in WAC 173-303-090 (5) or (7), and are not designated as F020, F021, F022, F023, F026, or F027, need not have a containment system as described in this subsection: *Provided, That:*

(i) The storage area is sloped or is otherwise designed and operated to drain and remove liquid resulting from precipitation; or

(ii) The containers are elevated or are otherwise protected from contact with accumulated liquids.

(d) EHW in containers must be protected from the elements by means of a building or other protective covering that otherwise allows adequate inspection under subsection (6) of this section.

(8) Special requirements for ignitable or reactive waste.

(a) Containers holding reactive waste exhibiting a characteristic specified in WAC 173-303-090 (7)(a)(vi), (vii) or (viii) must be stored in a manner equivalent to the Uniform Fire Code's "American Table of Distances for Storage of Explosives," Table 77-201, 1979 edition or the version adopted by the local fire district.

(b) The owner or operator shall design, operate, and maintain ignitable waste and reactive waste (other than a reactive waste which must meet (a) of this subsection) container storage in a manner equivalent with the Uniform Fire Code. Where no specific standard or requirements are specified in the Uniform Fire Code, or in existing state or local fire codes, applicable sections of the NFPA Pamphlet # 30, "Flammable and Combustible Liquids Code," shall be used. The owner/operator shall also comply with the requirements of WAC 173-303-395 (1)(d).

(9) Special requirements for incompatible wastes.

(a) Incompatible wastes, or incompatible wastes and materials must not be placed in the same container, unless WAC 173-303-395 (1)(b) is complied with.

(b) Dangerous waste must not be placed in an unwashed container that previously held an incompatible waste or material.

(c) A storage container holding a dangerous waste that is incompatible with any waste or other materials stored nearby in other containers, piles, open tanks, or surface impoundments must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device. Containment systems for incompatible wastes shall be separate.

(10) Closure. At closure, all dangerous waste and dangerous waste residues must be removed from the containment system. Remaining containers, liners, bases, and soil containing or contaminated with dangerous waste or dangerous waste residues must be decontaminated or removed.

AMENDATORY SECTION (Amending Order 88-24, filed 1/4/89)

WAC 173-303-640 Tank systems. (1) Applicability.

(a) The regulations in WAC 173-303-640 apply to owners and operators of facilities that use tank systems to treat or store dangerous waste, except as (b) and (c) of this subsection provides otherwise.

(b) Tank systems that are used to store or treat dangerous waste which contain no free liquids and are situated inside a building with an impermeable floor are exempted from the requirements in subsection (4) of this section. To demonstrate the absence or presence of free liquids in the stored/treated waste, the test method described in WAC 173-303-110 (3)(c)(i) must be used.

(c) Tank systems, including sumps, as defined in WAC 173-303-040, that serve as part of a secondary containment system to collect or contain releases of dangerous wastes are exempted from the requirements in subsection (4)(a) of this section.

(2) Assessment of existing tank system's integrity.

(a) For each existing tank system, the owner or operator must determine that the tank system is not leaking or is unfit for use. Except as provided in (b) of this subsection, the owner or operator must obtain and keep on file at the facility a written assessment reviewed and certified by an independent, qualified registered professional engineer, in accordance with WAC 173-303-810 (13)(a), that attests to the tank system's integrity by January 12, 1988, for underground tanks that do not meet the requirements of subsection (4) of this section and that cannot be entered for inspection, or by January 12, 1990, for all other tank systems.

(b) Tank systems that store or treat materials that become dangerous wastes subsequent to January 12, 1989, must conduct this assessment within twelve months after the date that the waste becomes a dangerous waste.

(c) This assessment must determine that the tank system is adequately designed and has sufficient structural strength and compatibility with the waste(s) to be stored or treated, to ensure that it will not collapse, rupture, or fail. At a minimum, this assessment must consider the following:

- (i) Design standard(s), if available, according to which the tank system was constructed;
- (ii) Dangerous characteristics of the waste(s) that have been and will be handled;
- (iii) Existing corrosion protection measures;
- (iv) Documented age of the tank system, if available (otherwise, an estimate of the age); and

(v) Results of a leak test, internal inspection, or other tank system integrity examination such that:

(A) For nonenterable underground tanks, the assessment must include a leak test that is capable of taking into account the effects of temperature variations, tank end deflection, vapor pockets, and high water table effects; and

(B) For other than nonenterable underground tanks and for ancillary equipment, this assessment must include either a leak test, as described above, or other integrity examination, that is certified by an independent, qualified, registered professional engineer, in accordance with WAC 173-303-810 (13)(a), that addresses cracks, leaks, corrosion, and erosion.

Note: The practices described in the American Petroleum Institute (API) Publication, Guide for Inspection of Refinery Equipment, Chapter XIII, "Atmospheric and Low-Pressure Storage Tanks," 4th edition, 1981, may be used, where applicable, as guidelines in conducting other than a leak test.

(d) If, as a result of the assessment conducted in accordance with (a) of this subsection, a tank system is found to be leaking or unfit for use, the owner or operator must comply with the requirements of subsection (7) of this section.

(e) The owner or operator must develop a schedule for conducting integrity assessments over the life of the tank to ensure that the tank retains its structural integrity and will not collapse, rupture, or fail. The schedule must be based on the results of past integrity assessments, age of the tank system, materials of construction, characteristics of the waste, and any other relevant factors.

(3) Design and installation of new tank systems or components.

(a) Owners or operators of new tank systems or components must obtain (and for facilities that are pursuing or have obtained a final status permit, submit to the department, at time of submittal of Part B information) a written assessment, reviewed and certified by an independent, qualified registered professional engineer, in accordance with WAC 173-303-810 (13)(a), attesting that the tank system has sufficient structural integrity and is acceptable for the storing and treating of dangerous waste. The assessment must show that the foundation, structural support, seams, connections, and pressure controls (if applicable) are adequately designed and that the tank system has sufficient structural strength, compatibility with the waste(s) to be stored or treated, and corrosion protection to ensure that it will not collapse, rupture, or fail. This assessment (which will be used by the department to review and approve or disapprove the acceptability of the tank system design at facilities which are pursuing or have obtained a final status permit) must include, at a minimum, the following information:

- (i) Design standard(s) according to which tank system(s) are constructed;
- (ii) Dangerous characteristics of the waste(s) to be handled;
- (iii) For new tank systems or components in which the external shell of a metal tank or any external metal component of the tank system will be in contact with the soil or with water, a determination by a corrosion expert of:

(A) Factors affecting the potential for corrosion, including but not limited to:

- (I) Soil moisture content;
- (II) Soil pH;

- (III) Soil sulfides level;
- (IV) Soil resistivity;
- (V) Structure to soil potential;
- (VI) Influence of nearby underground metal structures (e.g., piping);

(VII) Existence of stray electric current;

(VIII) Existing corrosion-protection measures (e.g., coating, cathodic protection); and

(B) The type and degree of external corrosion protection that are needed to ensure the integrity of the tank system during the use of the tank system or component, consisting of one or more of the following:

(I) Corrosion-resistant materials of construction such as special alloys, fiberglass reinforced plastic, etc.;

(II) Corrosion-resistant coating (such as epoxy, fiberglass, etc.) with cathodic protection (e.g., impressed current or sacrificial anodes); and

(III) Electrical isolation devices such as insulating joints, flanges, etc.

Note: The practices described in the National Association of Corrosion Engineers (NACE) standard, "Recommended Practice (RP-02-85)—Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems," and the American Petroleum Institute (API) Publication 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems," may be used, where applicable, as guidelines in providing corrosion protection for tank systems.

(iv) For underground tank system components that are likely to be adversely affected by vehicular traffic, a determination of design or operational measures that will protect the tank system against potential damage; and

(v) Design considerations to ensure that:

(A) Tank foundations will maintain the load of a full tank;

(B) Tank systems will be anchored to prevent flotation or dislodgment where the tank system is either placed in a saturated zone, or is located (~~within a seismic fault zone subject to the standards of WAC 173-303-420(3))~~ less than five hundred feet from a fault which has had displacement in Holocene times; and

(C) Tank systems will withstand the effects of frost heave.

(b) The owner or operator must develop a schedule for conducting integrity assessments over the life of the tank to ensure that the tank retains its structural integrity and will not collapse, rupture or fail. The schedule must be based on the results of past integrity assessments, age of the tank system, materials of construction, characteristics of the waste, and any other relevant factors.

(c) The owner or operator of a new tank system must ensure that proper handling procedures are adhered to in order to prevent damage to the system during installation. Prior to covering, enclosing, or placing a new tank system or component in use, an independent, qualified installation inspector or an independent, qualified, registered professional engineer, either of whom is trained and experienced in the proper installation of tank systems or components, must inspect the system for the presence of any of the following items:

(i) Weld breaks;

(ii) Punctures;

(iii) Scrapes of protective coatings;

(iv) Cracks;

(v) Corrosion;

(vi) Other structural damage or inadequate construction/installation.

All discrepancies must be remedied before the tank system is covered, enclosed, or placed in use.

(d) New tank systems or components that are placed underground and that are backfilled must be provided with a backfill material that is a noncorrosive, porous, homogeneous substance and that is installed so that the backfill is placed completely around the tank and compacted to ensure that the tank and piping are fully and uniformly supported.

(e) All new tanks and ancillary equipment must be tested for tightness prior to being covered, enclosed, or placed in use. If a tank system is found not to be tight, all repairs necessary to remedy the leak(s) in the system must be performed prior to the tank system being covered, enclosed, or placed into use.

(f) Ancillary equipment must be supported and protected against physical damage and excessive stress due to settlement, vibration, expansion, or contraction.

Note: The piping system installation procedures described in American Petroleum Institute (API) Publication 1615 (November 1979), "Installation of Underground Petroleum Storage Systems," or ANSI Standard B31.3, "Petroleum Refinery Piping," and ANSI Standard B31.4 "Liquid Petroleum Transportation Piping System," may be used, where applicable, as guidelines for proper installation of piping systems.

(g) The owner or operator must provide the type and degree of corrosion protection recommended by an independent corrosion expert, based on the information provided under (a)(iii) of this subsection, or other corrosion protection if the department believes other corrosion protection is necessary to ensure the integrity of the tank system during use of the tank system. The installation of a corrosion protection system that is field fabricated must be supervised by an independent corrosion expert to ensure proper installation.

(h) The owner or operator must obtain and keep on file at the facility written statements by those persons required to certify the design of the tank system and supervise the installation of the tank system in accordance with the requirements of (b) through (g) of this subsection, that attest that the tank system was properly designed and installed and that repairs, pursuant to (c) and (e) of this subsection, were performed. These written statements must also include the certification statement as required in WAC 173-303-810 (13)(a).

(4) Containment and detection of releases.

(a) In order to prevent the release of dangerous waste or dangerous constituents to the environment, secondary containment that meets the requirements of this subsection must be provided (except as provided in (f) and (g) of this subsection):

(i) For all new tank systems or components, prior to their being put into service;

(ii) For all existing tank systems used to store or treat Dangerous Waste Nos. F020, F021, F022, F023, F026, and F027, within two years after January 12, 1989;

(iii) For those existing tank systems of known and documented age, within two years after January 12, 1989, or

when the tank system has reached fifteen years of age, whichever comes later;

(iv) For those existing tank systems for which the age cannot be documented, within eight years of January 12, 1989; but if the age of the facility is greater than seven years, secondary containment must be provided by the time the facility reaches fifteen years of age, or within two years of January 12, 1989, whichever comes later; and

(v) For tank systems that store or treat materials that become dangerous wastes subsequent to January 12, 1989, within the time intervals required in (a)(i) through (iv) of this subsection, except that the date that a material becomes a dangerous waste must be used in place of January 12, 1989.

(b) Secondary containment systems must be:

(i) Designed, installed, and operated to prevent any migration of wastes or accumulated liquid out of the system to the soil, ground water, or surface water at any time during the use of the tank system; and

(ii) Capable of detecting and collecting releases and accumulated liquids until the collected material is removed.

(c) To meet the requirements of (b) of this subsection, secondary containment systems must be at a minimum:

(i) Constructed of or lined with materials that are compatible with the waste(s) to be placed in the tank system and must have sufficient strength and thickness to prevent failure owing to pressure gradients (including static head and external hydrological forces), physical contact with the waste to which it is exposed, climatic conditions, and the stress of daily operations (including stresses from nearby vehicular traffic);

(ii) Placed on a foundation or base capable of providing support to the secondary containment system, resistance to pressure gradients above and below the system, and capable of preventing failure due to settlement, compression, or uplift;

(iii) Provided with a leak-detection system that is designed and operated so that it will detect the failure of either the primary or secondary containment structure or the presence of any release of dangerous waste or accumulated liquid in the secondary containment system within twenty-four hours, or at the earliest practicable time if the owner or operator can demonstrate to the department that existing detection technologies or site conditions will not allow detection of a release within twenty-four hours; and

(iv) Sloped or otherwise designed or operated to drain and remove liquids resulting from leaks, spills, or precipitation. Spilled or leaked waste and accumulated precipitation must be removed from the secondary containment system within twenty-four hours, or in as timely a manner as is possible to prevent harm to human health and the environment, if the owner or operator can demonstrate to the department that removal of the released waste or accumulated precipitation cannot be accomplished within twenty-four hours.

(d) Secondary containment for tanks must include one or more of the following devices:

(i) A liner (external to the tank);

(ii) A vault;

(iii) A double-walled tank; or

(iv) An equivalent device as approved by the department.

(e) In addition to the requirements of (b), (c), and (d) of this subsection, secondary containment systems must satisfy the following requirements:

(i) External liner systems must be:

(A) Designed or operated to contain one hundred percent of the capacity of the largest tank within its boundary;

(B) Designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient excess capacity to contain run-on or infiltration. Such additional capacity must be sufficient to contain precipitation from a twenty-five-year, twenty-four-hour rainfall event.

(C) Free of cracks or gaps; and

(D) Designed and installed to surround the tank completely and to cover all surrounding earth likely to come into contact with the waste if the waste is released from the tank(s) (i.e., capable of preventing lateral as well as vertical migration of the waste).

(ii) Vault systems must be:

(A) Designed or operated to contain one hundred percent of the capacity of the largest tank within its boundary;

(B) Designed or operated to prevent run-on or infiltration of precipitation into the secondary containment system unless the collection system has sufficient excess capacity to contain run-on or infiltration. Such additional capacity must be sufficient to contain precipitation from a twenty-five-year, twenty-four-hour rainfall event;

(C) Constructed with chemical-resistant water stops in place at all joints (if any);

(D) Provided with an impermeable interior coating or lining that is compatible with the stored waste and that will prevent migration of waste into the concrete;

(E) Provided with a means to protect against the formation of and ignition of vapors within the vault, if the waste being stored or treated:

(I) Meets the definition of ignitable waste under WAC 173-303-090(5); or

(II) Meets the definition of reactive waste under WAC 173-303-090(7), and may form an ignitable or explosive vapor.

(F) Provided with an exterior moisture barrier or be otherwise designed or operated to prevent migration of moisture into the vault if the vault is subject to hydraulic pressure.

(iii) Double-walled tanks must be:

(A) Designed as an integral structure (i.e., an inner tank completely enveloped within an outer shell) so that any release from the inner tank is contained by the outer shell;

(B) Protected, if constructed of metal, from both corrosion of the primary tank interior and of the external surface of the outer shell; and

(C) Provided with a built-in continuous leak detection system capable of detecting a release within twenty-four hours, or at the earliest practicable time, if the owner or operator can demonstrate to the department, and the department concludes, that the existing detection technology or site conditions would not allow detection of a release within twenty-four hours.

Note: The provisions outlined in the Steel Tank Institute's (STI) "Standard for Dual Wall Underground Steel Storage Tanks" may

be used as guidelines for aspects of the design of underground steel double-walled tanks.

(f) Ancillary equipment must be provided with secondary containment (e.g., trench, jacketing, double-walled piping) that meets the requirements of (b) and (c) of this subsection except for:

(i) Aboveground piping (exclusive of flanges, joints, valves, and other connections) that are visually inspected for leaks on a daily basis;

(ii) Welded flanges, welded joints, and welded connections, that are visually inspected for leaks on a daily basis;

(iii) Sealless or magnetic coupling pumps and sealless valves, that are visually inspected for leaks on a daily basis; and

(iv) Pressurized aboveground piping systems with automatic shut-off devices (e.g., excess flow check valves, flow metering shutdown devices, loss of pressure actuated shut-off devices) that are visually inspected for leaks on a daily basis.

(g) The owner or operator may obtain a variance from the requirements of this subsection if the department finds, as a result of a demonstration by the owner or operator that alternative design and operating practices, together with location characteristics, will prevent the migration of any dangerous waste or dangerous constituents into the ground water, or surface water at least as effectively as secondary containment during the active life of the tank system or that in the event of a release that does migrate to ground water or surface water, no substantial present or potential hazard will be posed to human health or the environment. New underground tank systems may not, per a demonstration in accordance with (g)(ii) of this subsection, be exempted from the secondary containment requirements of this section.

(i) In deciding whether to grant a variance based on a demonstration of equivalent protection of ground water and surface water, the department will consider:

(A) The nature and quantity of the wastes;

(B) The proposed alternate design and operation;

(C) The hydrogeologic setting of the facility, including the thickness of soils present between the tank system and ground water; and

(D) All other factors that would influence the quality and mobility of the dangerous constituents and the potential for them to migrate to ground water or surface water.

(ii) In deciding whether to grant a variance based on a demonstration of no substantial present or potential hazard, the department will consider:

(A) The potential adverse effects on ground water, surface water, and land quality taking into account:

(I) The physical and chemical characteristics of the waste in the tank system, including its potential for migration;

(II) The hydrogeological characteristics of the facility and surrounding land;

(III) The potential for health risks caused by human exposure to waste constituents;

(IV) The potential for damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and

(V) The persistence and permanence of the potential adverse effects.

(B) The potential adverse effects of a release on ground-water quality, taking into account:

(I) The quantity and quality of ground water and the direction of ground-water flow;

(II) The proximity and withdrawal rates of ground-water users;

(III) The current and future uses of ground water in the area; and

(IV) The existing quality of ground water, including other sources of contamination and their cumulative impact on the ground-water quality.

(C) The potential adverse effects of a release on surface water quality, taking into account:

(I) The quantity and quality of ground water and the direction of ground-water flow;

(II) The patterns of rainfall in the region;

(III) The proximity of the tank system to surface waters;

(IV) The current and future uses of surface waters in the area and any water quality standards established for those surface waters; and

(V) The existing quality of surface water, including other sources of contamination and the cumulative impact on surface-water quality.

(D) The potential adverse effects of a release on the land surrounding the tank system, taking into account:

(I) The patterns of rainfall in the region; and

(II) The current and future uses of the surrounding land.

(iii) The owner or operator of a tank system, for which a variance from secondary containment had been granted in accordance with the requirements of (g)(i) of this subsection, at which a release of dangerous waste has occurred from the primary tank system but has not migrated beyond the zone of engineering control (as established in the variance), must:

(A) Comply with the requirements of subsection (7) of this section, except subsection (7)(d) of this section; and

(B) Decontaminate or remove contaminated soil to the extent necessary to:

(I) Enable the tank system for which the variance was granted to resume operation with the capability for the detection of releases at least equivalent to the capability it had prior to the release; and

(II) Prevent the migration of dangerous waste or dangerous constituents to ground water or surface water.

(C) If contaminated soil cannot be removed or decontaminated in accordance with (g)(iii)(B) of this subsection, comply with the requirements of subsection (8) of this section.

(iv) The owner or operator of a tank system, for which a variance from secondary containment had been granted in accordance with the requirements of (g)(i) of this subsection, at which a release of dangerous waste has occurred from the primary tank system and has migrated beyond the zone of engineering control (as established in the variance), must:

(A) Comply with the requirements of subsection (7)(a), (b), (c), and (d) of this section; and

(B) Prevent the migration of dangerous waste or dangerous constituents to ground water or surface water, if possible, and decontaminate or remove contaminated soil. If contaminated soil cannot be decontaminated or removed or if ground water has been contaminated, the owner or operator must comply with the requirements of subsection (8)(b) of this section; and

(C) If repairing, replacing, or reinstalling the tank system, provide secondary containment in accordance with the requirements of (a) through (f) of this subsection or reapply for a variance from secondary containment and meet the requirements for new tank systems in subsection (3) of this section if the tank system is replaced. The owner or operator must comply with these requirements even if contaminated soil can be decontaminated or removed and ground water or surface water has not been contaminated.

(h) The following procedures must be followed in order to request a variance from secondary containment:

(i) The department must be notified in writing by the owner or operator that he intends to conduct and submit a demonstration for a variance from secondary containment as allowed in (g) of this subsection according to the following schedule:

(A) For existing tank systems, at least twenty-four months prior to the date that secondary containment must be provided in accordance with (a) of this subsection.

(B) For new tank systems, at least thirty days prior to entering into a contract for installation.

(ii) As part of the notification, the owner or operator must also submit to the department a description of the steps necessary to conduct the demonstration and a timetable for completing each of the steps. The demonstration must address each of the factors listed in (g)(i) or (ii) of this subsection;

(iii) The demonstration for a variance must be completed within one hundred eighty days after notifying the department of an intent to conduct the demonstration; and

(iv) If a variance is granted under this subsection, the department will require the permittee to construct and operate the tank system in the manner that was demonstrated to meet the requirements for the variance.

(i) All tank systems, until such time as secondary containment that meets the requirements of this section is provided, must comply with the following:

(A) For nonenterable underground tanks, a leak test that meets the requirements of subsection (2)(c)(v) of this section or other tank integrity method, as approved or required by the department, must be conducted at least annually.

(B) For other than nonenterable underground tanks, the owner or operator must either conduct a leak test as in (i)(A) of this subsection or develop a schedule and procedure for an assessment of the overall condition of the tank system by an independent, qualified registered professional engineer. The schedule and procedure must be adequate to detect obvious cracks, leaks, and corrosion or erosion that may lead to cracks and leaks. The owner or operator must remove the stored waste from the tank, if necessary, to allow the condition of all internal tank surfaces to be assessed. The frequency of these assessments must be based on the material of construction of the tank and its ancillary equipment, the age of the system, the type of corrosion or erosion protection used, the rate of corrosion or erosion observed during the previous inspection, and the characteristics of the waste being stored or treated.

(C) For ancillary equipment, a leak test or other integrity assessment as approved by the department must be conducted at least annually.

Note: The practices described in the American Petroleum Institute (API) Publication Guide for Inspection of Refinery Equipment,

Chapter XIII, "Atmospheric and Low-Pressure Storage Tanks," 4th edition, 1981, may be used, where applicable, as guidelines for assessing the overall condition of the tank system.

(D) The owner or operator must maintain on file at the facility a record of the results of the assessments conducted in accordance with (h)(iv)(A) through (C) of this subsection.

(E) If a tank system or component is found to be leaking or unfit for use as a result of the leak test or assessment in (h)(iv)(A) through (C) of this subsection, the owner or operator must comply with the requirements of subsection (7) of this section.

(5) General operating requirements.

(a) Dangerous wastes or treatment reagents must not be placed in a tank system if they could cause the tank, its ancillary equipment, or the containment system to rupture, leak, corrode, or otherwise fail.

(b) The owner or operator must use appropriate controls and practices to prevent spills and overflows from tank or containment systems. These include at a minimum:

(i) Spill prevention controls (e.g., check valves, dry disconnect couplings);

(ii) Overfill prevention controls (e.g., level sensing devices, high level alarms, automatic feed cutoff, or bypass to a standby tank); and

(iii) Maintenance of sufficient freeboard in uncovered tanks to prevent overtopping by wave or wind action or by precipitation.

(c) The owner or operator must comply with the requirements of subsection (7) of this section if a leak or spill occurs in the tank system.

(d) All tank systems holding dangerous waste shall be marked with labels or signs to identify the waste contained in the tank. The label or sign shall be legible at a distance of at least fifty feet, and shall bear a legend which identifies the waste in a manner which adequately warns employees, emergency response personnel, and the public of the major risk(s) associated with the waste being stored or treated in the tank system(s). (Note—If there already is a system in use that performs this function in accordance with local, state or federal regulations, then such system will be adequate.)

(e) All tank systems holding EHW which is acutely or chronically toxic by inhalation must be designed to prevent escape of vapors, fumes, or other emissions into the air.

(6) Inspections.

(a) The owner or operator must develop and follow a schedule and procedure for inspecting overfill controls.

(b) The owner or operator must inspect at least once each operating day:

(i) Aboveground portions of the tank system, if any, to detect corrosion or releases of waste;

(ii) Data gathered from monitoring any leak detection equipment (e.g., pressure or temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design; and

(iii) The construction materials and the area immediately surrounding the externally accessible portion of the tank system, including the secondary containment system (e.g., dikes) to detect erosion or signs of releases of dangerous waste (e.g., wet spots, dead vegetation).

Note: WAC 173-303-320 requires the owner or operator to remedy any deterioration or malfunction he finds. Subsection (7) of this

section requires the owner or operator to notify the department within twenty-four hours of confirming a leak. Also, 40 CFR Part 302 may require the owner or operator to notify the National Response Center of a release.

(c) The owner or operator must inspect cathodic protection systems, if present, according to, at a minimum, the following schedule to ensure that they are functioning properly:

(i) The proper operation of the cathodic protection system must be confirmed within six months after initial installation and annually thereafter; and

(ii) All sources of impressed current must be inspected and/or tested, as appropriate, at least bimonthly (i.e., every other month).

Note: The practices described in the National Association of Corrosion Engineers (NACE) standard, "Recommended Practice (RP-02-85)—Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems," and the American Petroleum Institute (API) Publication 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems," may be used, where applicable, as guidelines in maintaining and inspecting cathodic protection systems.

(d) The owner or operator must document in the operating record of the facility an inspection of those items in (a) through (c) of this subsection. The owner or operator shall keep an inspection log including at least the date and time of the inspection, the printed name and the handwritten signature of the inspector, a notation of the observations made and the date and nature of any repairs or remedial actions taken. The log must be kept at the facility for at least five years from the date of inspection.

(7) Response to leaks or spills and disposition of leaking or unfit-for-use tank systems.

A tank system or secondary containment system from which there has been a leak or spill, or which is unfit for use, must be removed from service immediately, and the owner or operator must satisfy the following requirements:

(a) Cessation of use; prevent flow or addition of wastes. The owner or operator must immediately stop the flow of dangerous waste into the tank system or secondary containment system and inspect the system to determine the cause of the release.

(b) Removal of waste from tank system or secondary containment system.

(i) If the release was from the tank system, the owner/operator must, within twenty-four hours after detection of the leak or, if the owner/operator demonstrates that it is not possible, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of dangerous waste to the environment and to allow inspection and repair of the tank system to be performed.

(ii) If the material released was to a secondary containment system, all released materials must be removed within twenty-four hours or in as timely a manner as is possible to prevent harm to human health and the environment.

(c) Containment of visible releases to the environment. The owner/operator must immediately conduct a visual inspection of the release and, based upon that inspection:

(i) Prevent further migration of the leak or spill to soils or surface water; and

(ii) Remove, and properly dispose of, any visible contamination of the soil or surface water.

(d) Notifications, reports.

(i) Any release to the environment, except as provided in (d)(ii) of this subsection, must be reported to the department within twenty-four hours of its detection. Any release above the "reportable quantity" must also be reported to the National Response Center pursuant to 40 CFR Part 302.

(ii) A leak or spill of dangerous waste is exempted from the requirements of (d) of this subsection if it is:

(A) Less than or equal to a quantity of one pound, or the "Reportable Quantity" (RQ) established in 40 CFR Part 302, whichever is less; and

(B) Immediately contained and cleaned-up.

(iii) Within thirty days of detection of a release to the environment, a report containing the following information must be submitted to the department:

(A) Likely route of migration of the release;

(B) Characteristics of the surrounding soil (soil composition, geology, hydrogeology, climate);

(C) Results of any monitoring or sampling conducted in connection with the release (if available). If sampling or monitoring data relating to the release are not available within thirty days, these data must be submitted to the department as soon as they become available;

(D) Proximity to downgradient drinking water, surface water, and populated areas; and

(E) Description of response actions taken or planned.

(e) Provision of secondary containment, repair, or closure.

(i) Unless the owner/operator satisfies the requirements of (e)(ii) through (iv) of this subsection, the tank system must be closed in accordance with subsection (8) of this section.

(ii) If the cause of the release was a spill that has not damaged the integrity of the system, the owner/operator may return the system to service as soon as the released waste is removed and repairs, if necessary, are made.

(iii) If the cause of the release was a leak from the primary tank system into the secondary containment system, the system must be repaired prior to returning the tank system to service.

(iv) If the source of the release was a leak to the environment from a component of a tank system without secondary containment, the owner/operator must provide the component of the system from which the leak occurred with secondary containment that satisfies the requirements of subsection (4) of this section before it can be returned to service, unless the source of the leak is an aboveground portion of a tank system that can be inspected visually. If the source is an aboveground component that can be inspected visually, the component must be repaired and may be returned to service without secondary containment as long as the requirements of (f) of this subsection are satisfied. If a component is replaced to comply with the requirements of this subitem, that component must satisfy the requirements for new tank systems or components in subsections (3) and (4) of this section. Additionally, if a leak has occurred in any portion of a tank system component that is not readily accessible for visual inspection (e.g., the bottom of an inground or onground tank), the entire component must be provided with secondary containment in accordance with subsection (4) of this section prior to being returned to use.

(f) Certification of major repairs. If the owner/operator has repaired a tank system in accordance with (e) of this subsection, and the repair has been extensive (e.g., installation of an internal liner; repair of a ruptured primary containment or secondary containment vessel), the tank system must not be returned to service unless the owner/operator has obtained a certification by an independent, qualified, registered, professional engineer in accordance with WAC 173-303-810 (13)(a) that the repaired system is capable of handling dangerous wastes without release for the intended life of the system. This certification must be submitted to the department within seven days after returning the tank system to use.

Note: See WAC 173-303-320 for the requirements necessary to remedy a failure. Also, 40 CFR Part 302 may require the owner or operator to notify the National Response Center of certain releases.

(8) Closure and post-closure care.

(a) At closure of a tank system, the owner or operator must remove or decontaminate all waste residues, contaminated containment system components (liners, etc.), contaminated soils, and structures and equipment contaminated with waste, and manage them as dangerous waste, unless WAC 173-303-070 (2)(a) applies. The closure plan, closure activities, cost estimates for closure, and financial responsibility for tank systems must meet all of the requirements specified in WAC 173-303-610 and 173-303-620.

(b) If the owner or operator demonstrates that not all contaminated soils can be practicably removed or decontaminated as required in (a) of this subsection, then the owner or operator must close the tank system and perform post-closure care in accordance with the closure and post-closure care requirements that apply to landfills (see WAC 173-303-665(6)). In addition, for the purposes of closure, post-closure, and financial responsibility, such a tank system is then considered to be a landfill, and the owner or operator must meet all of the requirements for landfills specified in WAC 173-303-610 and 173-303-620.

(c) If an owner or operator has a tank system that does not have secondary containment that meets the requirements of subsection (4)(b) through (f) of this section and is not exempt from the secondary containment requirements in accordance with subsection (4)(g) of this section, then:

(i) The closure plan for the tank system must include both a plan for complying with (a) of this subsection and a contingent plan for complying with (b) of this subsection.

(ii) A contingent post-closure plan for complying with (b) of this subsection must be prepared and submitted as part of the permit application.

(iii) The cost estimates calculated for closure and post-closure care must reflect the costs of complying with the contingent closure plan and the contingent post-closure plan, if those costs are greater than the costs of complying with the closure plan prepared for the expected closure under (a) of this subsection.

(iv) Financial assurance must be based on the cost estimates in (c)(iii) of this subsection.

(v) For the purposes of the contingent closure and post-closure plans, such a tank system is considered to be a landfill, and the contingent plans must meet all of the closure, post-closure, and financial responsibility require-

ments for landfills under this chapter (WAC 173-303-610 and 173-303-620).

(9) Special requirements for ignitable or reactive wastes.

(a) Ignitable or reactive waste must not be placed in tank systems unless:

(i) The waste is treated, rendered, or mixed before or immediately after placement in the tank system so that the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090, and 173-303-395 (1)(b) is complied with; or

(ii) The waste is stored or treated in such a way that it is protected from any material or conditions which may cause the waste to ignite or react; or

(iii) The tank system is used solely for emergencies.

(b) The owner or operator of a facility which treats or stores ignitable or reactive waste in ~~((covered))~~ tanks must locate the tanks in a manner equivalent to the National Fire Protection Association's buffer zone requirements for tanks, contained in Tables 2-1 through 2-6 of the NFPA-30 *Flammable and Combustible Liquids Code* - 1981, or as required by state and local fire codes when such codes are more stringent. The owner or operator shall also comply with the requirements of WAC 173-303-395 (1)(d).

(10) Special requirements for incompatible wastes.

(a) Incompatible wastes, or incompatible wastes and materials, must not be placed in the same tank system, unless WAC 173-303-395 (1)(b) is complied with.

(b) Dangerous waste must not be placed in a tank system that has not been decontaminated and that previously held an incompatible waste or material, unless WAC 173-303-395 (1)(b) is complied with.

~~((11) Special requirements for dangerous wastes F020, F021, F022, F023, F026, and F027.~~

~~In addition to the other requirements of this section and until the requirements of subsections (2), (3) and (4) of this section are fully effective, the following requirements apply to tanks storing or treating dangerous wastes F020, F021, F022, F023, F026, or F027.~~

~~(a) Tanks must have systems designed and operated to detect and adequately contain spills or leaks. The design and operation of any containment system must reflect consideration of all relevant factors, including:~~

~~(i) Capacity of the tank;~~

~~(ii) Volumes and characteristics of wastes stored or treated in the tank;~~

~~(iii) Method of collection of spills or leaks;~~

~~(iv) The design and construction materials of the tank and containment system; and~~

~~(v) The need to prevent precipitation and run on from entering into the system.~~

~~(b) As part of the contingency plan required by WAC 173-303-350, the owner or operator must specify such procedures for responding to a spill or leak from the tank into the containment system as may be necessary to protect human health and the environment. These procedures shall include measures for immediate removal of the waste from the system and replacement or repair of the leaking tank.)~~

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-645 Releases from ((solid waste management)) regulated units. (1) Applicability.

(a)(i) Except as provided in (b) of this subsection, the regulations in this section apply to owners and operators of facilities that treat, store, or dispose of dangerous waste. The owner or operator must satisfy the requirements identified in (a)(ii) of this subsection for all wastes (or constituents thereof) contained in solid waste management units at the facility, regardless of the time at which waste was placed in such units.

(ii) All solid waste management units must comply with the requirements in ((subsection (12) of this section)) WAC 173-303-646(2). Regulated units (as defined in WAC 173-303-040) must comply with the requirements of subsections (2) through ((11)) (12) of this section, in lieu of ((subsection (12) of this section)) WAC 173-303-646(2), for purposes of detecting, characterizing, and responding to releases to the uppermost aquifer. The corrective action financial responsibility requirements of ((subsection (12) of this section)) WAC 173-303-646(2) apply to corrective action regulated units.

(b) The owner or operator's regulated unit or units are not subject to regulation for releases into the uppermost aquifer under this section if:

(i) The owner or operator is exempted under WAC 173-303-600; or

(ii) He operates a unit which the department finds:

(A) Is an engineered structure;

(B) Does not receive or contain liquid waste or waste containing free liquids;

(C) Is designed and operated to exclude liquid, precipitation, and other run-on and run-off;

(D) Has both inner and outer layers of containment enclosing the waste;

(E) Has a leak detection system built into each containment layer;

(F) The owner or operator will provide continuing operation and maintenance of these leak detection systems during the active life of the unit and the closure and post-closure care periods; and

(G) To a reasonable degree of certainty, will not allow dangerous constituents to migrate beyond the outer containment layer prior to the end of the post-closure care period.

(iii) The department finds, pursuant to WAC 173-303-655 (8)(d), that the treatment zone of a land treatment unit does not contain levels of dangerous constituents that are above background levels of those constituents by an amount that is statistically significant, and if an unsaturated zone monitoring program meeting the requirements of WAC 173-303-655(6) has not shown a statistically significant increase in dangerous constituents below the treatment zone during the operating life of the unit. An exemption under this subsection can only relieve an owner or operator of responsibility to meet the requirements of this section during the post-closure care period; or

(iv) The department finds that there is no potential for migration of liquid from a regulated unit to the uppermost aquifer during the active life of the regulated unit (including the closure period) and the postclosure care period. This

demonstration must be certified by a qualified geologist or geotechnical engineer. In order to provide an adequate margin of safety in the prediction of potential migration of liquid, the owner or operator must base any predictions made under this subsection on assumptions that maximize the rate of liquid migration.

(c) The regulations under this section apply during the active life of the regulated unit (including the closure period). After closure of the regulated unit, the regulations in this section:

(i) Do not apply if all waste, waste residues, contaminated containment system components, and contaminated subsoils are removed or decontaminated at closure in accordance with the removal or decontamination limits specified in WAC 173-303-610 (2)(b);

(ii) Apply during the postclosure care period if the owner or operator is conducting a detection monitoring program under subsection (9) of this section; and

(iii) Apply during the compliance period under subsection (7) of this section, if the owner or operator is conducting a compliance monitoring program under subsection (10) of this section, or a corrective action program under subsection (11) of this section.

(d) Regulations in this section may apply to miscellaneous units when necessary to comply with WAC 173-303-680 (2) through (4).

(2) Required programs.

(a) Owners and operators subject to this section must conduct a monitoring and response program as follows:

(i) Whenever dangerous constituents under subsection (4) of this section, from a regulated unit are detected at the compliance point under subsection (6) of this section, the owner or operator must institute a compliance monitoring program under subsection (10) of this section. Detected is defined as statistically significant evidence of contamination as described in subsection (9)((g)) (f) of this section;

(ii) Whenever the ground water protection standard under subsection (3) of this section, is exceeded, the owner or operator must institute a corrective action program under subsection (11) of this section. Exceeded is defined as statistically significant evidence of increased contamination as described in subsection (10)(h) of this section. Exceeded is defined as statistically significant evidence of contamination as described in WAC 173-303-645 (10)(d);

(iii) Whenever dangerous constituents under subsection (4) of this section, from a regulated unit exceed concentration limits under subsection (5) of this section, in ground water between the compliance point under subsection (6) of this section and the downgradient facility property boundary, the owner or operator must institute a corrective action program under subsection (11) of this section; and

(iv) In all other cases, the owner or operator must institute a detection monitoring program under subsection (9) of this section.

(b) The department will specify in the facility permit the specific elements of the monitoring and response program. The department may include one or more of the programs identified in (a) of this subsection, in the facility permit as may be necessary to protect human health and the environment and will specify the circumstances under which each of the programs will be required. In deciding whether to require the owner or operator to be prepared to institute a

particular program, the department will consider the potential adverse effects on human health and the environment that might occur before final administrative action on a permit modification application to incorporate such a program could be taken.

(3) Ground water protection standard. The owner or operator must comply with conditions specified in the facility permit that are designed to ensure that dangerous constituents under subsection (4) of this section, detected in the ground water from a regulated unit do not exceed the concentration limits under subsection (5) of this section, in the uppermost aquifer underlying the waste management area beyond the point of compliance under subsection (6) of this section, during the compliance period under subsection (7) of this section. To the extent practical, the department will establish this ground water protection standard in the facility permit at the time the permit is issued. If the department determines that an established standard is not protective enough, or if the department decides that it is not practical to establish standards at the time of permit issuance, the department will establish the groundwater protection standard in the facility permit when dangerous constituents have been detected in the groundwater from a regulated unit.

(4) Dangerous constituents.

(a) The department will specify in the facility permit the dangerous constituents to which the ground water protection standard of subsection (3) of this section, applies. Dangerous constituents are constituents identified in 40 CFR Part 264 Appendix IX (this list is available from the department upon request), and any other constituents not listed there which have caused a waste to be regulated under this chapter, that may be or have been detected in ground water in the uppermost aquifer underlying a regulated unit and that are reasonably expected to be in or derived from waste contained in a regulated unit, unless the department has excluded them under (b) of this subsection.

The department may also specify in the permit indicator parameters (e.g., specific conductance, pH, total organic carbon (TOC), total organic halogen (TOX), or heavy metals), waste constituents or reaction products as identified in the detection monitoring program under subsection (9)(a) of this section, that provide a reliable indication of the presence of dangerous constituents in the ground water.

(b) The department will exclude a 40 CFR Part 264 Appendix IX, or other identified constituent from the list of dangerous constituents specified in the facility permit if it finds that the constituent is not capable of posing a substantial present or potential hazard to human health or the environment. In deciding whether to grant an exemption, the department will consider the following:

(i) Potential adverse effects on ground water quality, considering:

(A) The physical and chemical characteristics of the waste in the regulated unit, including its potential for migration;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity of ground water and the direction of ground water flow;

(D) The proximity and withdrawal rates of ground water users;

(E) The current and future uses of ground water in the area;

(F) The existing quality of ground water, including other sources of contamination and their cumulative impact on the ground water quality;

(G) The potential for health risks caused by human exposure to waste constituents;

(H) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and

(I) The persistence and permanence of the potential adverse effects;

(ii) Potential adverse effects on hydraulically-connected surface water quality, considering:

(A) The volume and physical and chemical characteristics of the waste in the regulated unit;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity and quality of ground water, and the direction of ground water flow;

(D) The patterns of rainfall in the region;

(E) The proximity of the regulated unit to surface waters;

(F) The current and future uses of surface waters in the area and any water quality standards established for those surface waters;

(G) The existing quality of surface water, including other sources of contamination and the cumulative impact on surface water quality;

(H) The potential for health risks caused by human exposure to waste constituents;

(I) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and

(J) The persistence and permanence of the potential adverse effects; and

(iii) Any identification of underground sources of drinking water and exempted aquifers made pursuant to chapter 90.48 RCW, chapter 270, Laws of 1983, and other applicable state laws and regulations.

(5) Concentration limits.

(a) The department will specify in the facility permit concentration limits in the ground water for dangerous constituents established under subsection (4) of this section. The concentration of a dangerous constituent:

(i) Must not exceed the background level of that constituent in the ground water at the time that limit is specified in the permit; or

(ii) For any of the constituents listed in Table 1 of this subsection, must not exceed the respective value given in that table if the background level of the constituent is below the value given in Table 1; or

(iii) Must not exceed an alternate limit established by the department under (b) of this subsection.

Table 1.
Maximum Concentration of Constituents
for Ground Water Protection

| Constituent | Maximum Concentration ¹ |
|-----------------|------------------------------------|
| Arsenic | 0.05 |
| Barium | 1.0 |
| Cadmium | 0.01 |
| Chromium | 0.05 |
| Lead | 0.05 |
| Mercury | 0.002 |
| Selenium | 0.01 |
| Silver | 0.05 |
| Endrin | 0.0002 |
| Lindane | 0.004 |
| Methoxychlor | 0.1 |
| Toxaphene | 0.005 |
| 2,4-D | 0.1m |
| 2,4,5-TP Silvex | 0.01 |

¹ Milligrams per liter.

(b) The department will establish an alternate concentration limit for a dangerous constituent if it finds that the constituent will not pose a substantial present or potential hazard to human health or the environment as long as the alternate concentration limit is not exceeded. In establishing alternate concentration limits, the department will consider the same factors listed in subsection (4)(b)(i) through (iii) of this section.

(6) Point of compliance.

(a) The department will specify in the facility permit the point of compliance at which the ground water protection standard of subsection (3) of this section, applies and at which monitoring must be conducted. The point of compliance is a vertical surface located at the hydraulically downgradient limit of the waste management area that extends down into the uppermost aquifer underlying the regulated units. Alternatively, the point of compliance may be any closer points identified by the department at the time the permit is issued, considering the risks of the facility, the wastes and constituents managed there, the potential for waste constituents to have already migrated past the alternate compliance point, and the potential threats to ground and surface waters.

(b) The waste management area is the limit projected in the horizontal plane of the area on which waste will be placed during the active life of a regulated unit. The waste management area includes horizontal space taken up by any liner, dike, or other barrier designed to contain waste in a regulated unit. If the facility contains more than one regulated unit, the waste management area is described by an imaginary line circumscribing the several regulated units.

(7) Compliance period.

(a) The department will specify in the facility permit the compliance period during which the ground water protection standard of subsection (3) of this section applies. The compliance period is the number of years equal to the active life of the waste management area (including any waste

management activity prior to permitting, and the closure period).

(b) The compliance period begins when the owner or operator initiates a compliance monitoring program meeting the requirements of subsection (10) of this section.

(c) If the owner or operator is engaged in a corrective action program at the end of the compliance period specified in (a) of this subsection, the compliance period is extended until the owner or operator can demonstrate that the ground water protection standard of subsection (3) of this section, has not been exceeded for a period of three consecutive years.

(8) General ground water monitoring requirements.

The owner or operator must comply with the requirements of this subsection for any ground water monitoring program developed to satisfy subsections (9), (10), or (11) of this section.

(a) The ground water monitoring system must consist of a sufficient number of wells, installed at appropriate locations and depths to yield ground water samples from the uppermost aquifer that:

(i) Represent the quality of background water that has not been affected by leakage from a regulated unit;

(A) A determination of background quality may include sampling of wells that are not hydraulically upgradient of the waste management area where:

(I) Hydrogeologic conditions do not allow the owner or operator to determine what wells are hydraulically upgradient; and

(II) Sampling at other wells will provide an indication of background ground water quality that is representative or more representative than that provided by the upgradient wells; and

(ii) Represent the quality of ground water passing the point of compliance.

(iii) Allow for the detection of contamination when dangerous waste or dangerous constituents have migrated from the waste management area to the uppermost aquifer.

(b) If a facility contains more than one regulated unit, separate ground water monitoring systems are not required for each regulated unit, provided that provisions for sampling the ground water in the uppermost aquifer will enable detection and measurement at the compliance point of dangerous constituents from the regulated units that have entered the ground water in the uppermost aquifer.

(c) All monitoring wells must be cased in a manner that maintains the integrity of the monitoring well bore hole. This casing must allow collection of representative ground water samples. Wells must be constructed in such a manner as to prevent contamination of the samples, the sampled strata, and between aquifers and water bearing strata. Wells must meet the requirements set forth in Parts 1 and 3 of chapter 173-160 WAC, "Minimum standards for construction and maintenance of wells."

(d) The ground water monitoring program must include at a minimum, procedures and techniques for:

(i) Decontamination of drilling and sampling equipment;

(ii) Sample collection;

(iii) Sample preservation and shipment;

(iv) Analytical procedures and quality assurance; and

(v) Chain of custody control.

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(e) The ground water monitoring program must include consistent sampling and analytical methods that ensure reliable ground water sampling, accurately measure dangerous constituents and indicator parameters in ground water samples, and provide a reliable indication of groundwater quality below the waste management area.

(f) The ground water monitoring program must include a determination of the ground water surface elevation each time ground water is sampled.

(g) In detection monitoring or where appropriate in compliance monitoring, data on each dangerous constituent specified in the permit will be collected from background wells and wells at the compliance point(s). The number and kinds of samples collected to establish background shall be appropriate for the form of statistical test employed, following generally accepted statistical principles. The sample size shall be as large as necessary to ensure with reasonable confidence that a contaminant release to ground water from a facility will be detected. The owner or operator will determine an appropriate sampling procedure and interval for each hazardous constituent listed in the facility permit which shall be specified in the unit permit upon approval by the department. This sampling procedure shall be:

(i) A sequence of at least four samples, taken at an interval that assures, to the greatest extent technically feasible, that an independent sample is obtained, by reference to the uppermost aquifer's effective porosity, hydraulic conductivity and hydraulic gradient, and the fate and transport characteristics of the potential contaminants; or

(ii) An alternate sampling procedure proposed by the owner or operator and approved by the department.

(h) The owner or operator will specify one of the following statistical methods to be used in evaluating ground water monitoring data for each hazardous constituent which, upon approval by the department, will be specified in the unit permit. The statistical test chosen shall be conducted separately for each dangerous constituent in each well. Where practical quantification limits (pql's) are used in any of the following statistical procedures to comply with (i)(v) of this subsection, the pql must be proposed by the owner or operator and approved by the department. Use of any of the following statistical methods must be protective of human health and the environment and must comply with the performance standards outlined in (i) of this subsection.

(i) A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's mean and the background mean levels for each constituent.

(ii) An analysis of variance (ANOVA) based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's median and the background median levels for each constituent.

(iii) A tolerance or prediction interval procedure in which an interval for each constituent is established from the distribution of the background data, and the level of each constituent in each compliance well is compared to the upper tolerance or prediction limit.

(iv) A control chart approach that gives control limits for each constituent.

(v) Another statistical test method submitted by the owner or operator and approved by the department.

(i) Any statistical method chosen under (h) of this subsection for specification in the unit permit shall comply with the following performance standards, as appropriate:

(i) The statistical method used to evaluate ground water monitoring data shall be appropriate for the distribution of chemical parameters or dangerous constituents. If the distribution of the chemical parameters or dangerous constituents is shown by the owner or operator to be inappropriate for a normal theory test, then the data should be transformed or a distribution-free theory test should be used. If the distributions for the constituents differ, more than one statistical method may be needed.

(ii) If an individual well comparison procedure is used to compare an individual compliance well constituent concentration with background constituent concentrations or a ground water protection standard, the test shall be done at a Type I error level no less than 0.01 for each testing period. If a multiple comparisons procedure is used, the Type I experimentwise error rate for each testing period shall be no less than 0.05; however, the Type I error of no less than 0.01 for individual well comparisons must be maintained. This performance standard does not apply to tolerance intervals, prediction intervals, or control charts.

(iii) If a control chart approach is used to evaluate ground water monitoring data, the specific type of control chart and its associated parameter values shall be proposed by the owner or operator and approved by the department if it is protective of human health and the environment.

(iv) If a tolerance interval or a prediction interval is used to evaluate ground water monitoring data, the levels of confidence and, for tolerance intervals, the percentage of the population that the interval must contain, shall be proposed by the owner or operator and approved by the department if it finds these parameters to be protective of human health and the environment. These parameters will be determined after considering the number of samples in the background data base, the data distribution, and the range of the concentration values for each constituent of concern.

(v) The statistical method shall account for data below the limit of detection with one or more statistical procedures that are protective of human health and the environment. Any practical quantification limit (pql) approved by the department under (h) of this subsection that is used in the statistical method shall be the lowest concentration level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions that are available to the facility.

(vi) If necessary, the statistical method shall include procedures to control or correct for seasonal and spatial variability as well as temporal correlation in the data.

(j) Ground water monitoring data collected in accordance with (g) of this subsection including actual levels of constituents must be maintained in the facility operating record. The department will specify in the permit when the data must be submitted for review.

(9) Detection monitoring program. An owner or operator required to establish a detection monitoring program

under this subsection must, at a minimum, discharge the responsibilities described in this subsection.

(a) The owner or operator must monitor for indicator parameters (e.g., pH, specific conductance, total organic carbon (TOC), total organic halogen (TOX), or heavy metals), waste constituents, or reaction products that provide a reliable indication of the presence of dangerous constituents in ground water. The department will specify the parameters or constituents to be monitored in the facility permit, after considering the following factors:

(i) The types, quantities, and concentrations of constituents in wastes managed at the regulated unit;

(ii) The mobility, stability, and persistence of waste constituents or their reaction products in the unsaturated zone beneath the waste management area;

(iii) The detectability of indicator parameters, waste constituents, and reaction products in ground water; and

(iv) The concentrations or values and coefficients of variation of proposed monitoring parameters or constituents in the ground water background.

(b) The owner or operator must install a ground water monitoring system at the compliance point, as specified under subsection (6) of this section. The ground water monitoring system must comply with subsection (8)(a)(ii), (b), and (c) of this section.

(c) The owner or operator must conduct a ground water monitoring program for each chemical parameter and dangerous constituent specified in the permit pursuant to (a) of this subsection in accordance with subsection (8)(g) of this section. The owner or operator must maintain a record of ground water analytical data as measured and in a form necessary for the determination of statistical significance under subsection (8)(h) of this section.

(d) The department will specify the frequencies for collecting samples and conducting statistical tests to determine whether there is statistically significant evidence of contamination for any parameter or dangerous constituent specified in the permit under (a) of this subsection in accordance with subsection (8)(g) of this section. A sequence of at least four samples from each well (background and compliance wells) must be collected at least semiannually during detection monitoring.

(e) The owner or operator must determine the ground water flow rate and direction in the uppermost aquifer at least annually.

(f) The owner or operator must determine whether there is statistically significant evidence of contamination for any chemical parameter or dangerous constituent specified in the permit pursuant to (a) of this subsection at a frequency specified under (d) of this subsection.

(i) In determining whether statistically significant evidence of contamination exists, the owner or operator must use the method(s) specified in the permit under subsection (8)(h) of this section. These method(s) must compare data collected at the compliance point(s) to the background ground water quality data.

(ii) The owner or operator must determine whether there is statistically significant evidence of contamination at each monitoring well as the compliance point within a reasonable period of time after completion of sampling. The department will specify in the facility permit what period of time is reasonable after considering the complexity of the statisti-

cal test and the availability of laboratory facilities to perform the analysis of ground water samples.

(g) If the owner or operator determines pursuant to (f) of this subsection that there is statistically significant evidence of contamination for chemical parameters or dangerous constituents specified pursuant to (a) of this subsection at any monitoring well at the compliance point, he or she must:

(i) Notify the department of this finding in writing within seven days. The notification must indicate what chemical parameters or dangerous constituents have shown statistically significant evidence of contamination:

(ii) Immediately sample the ground water in all monitoring wells and determine whether constituents in the list of Appendix IX of Part 264 are present, and if so, in what concentration.

(iii) For any Appendix IX compounds found in the analysis pursuant to (g)(ii) of this subsection, the owner or operator may resample within one month and repeat the analysis for those compounds detected. If the results of the second analysis confirm the initial results, then these constituents will form the basis for compliance monitoring. If the owner or operator does not resample for the compounds found pursuant to (g)(ii) of this subsection, the dangerous constituents found during this initial Appendix IX analysis will form the basis for compliance monitoring.

(iv) Within ninety days, submit to the department an application for a permit modification to establish a compliance monitoring program meeting the requirements of subsection (10) of this section. The application must include the following information:

(A) An identification of the concentration or any Appendix IX constituent detected in the ground water at each monitoring well at the compliance point;

(B) Any proposed changes to the ground water monitoring system at the facility necessary to meet the requirements of subsection (10) of this section;

(C) Any proposed additions or changes to the monitoring frequency, sampling and analysis procedures or methods, or statistical methods used at the facility necessary to meet the requirements of subsection (10) of this section;

(D) For each dangerous constituent detected at the compliance point, a proposed concentration limit under subsection (5)(a)(i) or (ii) of this section, or a notice of intent to seek an alternate concentration limit under subsection (5)(b) of this section; and

(v) Within one hundred eighty days, submit to the department:

(A) All data necessary to justify ~~(and fan))~~ an alternate concentration limit sought under subsection (5)(b) of this section; and

(B) An engineering feasibility plan for a corrective action program necessary to meet the requirement of subsection (11) of this section unless:

(I) All dangerous constituents identified under (g)(ii) of this subsection are listed in Table I of subsection (5) of this section and their concentrations do not exceed the respective values given in that Table; or

(II) The owner or operator has sought an alternate concentration limit under subsection (5)(b) of this section for every dangerous constituent identified under (g)(ii) of this subsection.

(vi) If the owner or operator determines, pursuant to (f) of this subsection, that there is a statistically significant difference for chemical parameters or dangerous constituents specified pursuant to (a) of this subsection at any monitoring well at the compliance point, he or she may demonstrate that a source other than a regulated unit caused the contamination or that the detection is an artifact caused by an error in sampling, analysis, or statistical evaluation or natural variation in the ground water. The owner operator may make a demonstration under this subsection in addition to, or in lieu of, submitting a permit modification application under (g)(iv) of this subsection; however, the owner or operator is not relieved of the requirement to submit a permit modification application within the time specified in (g)(iv) of this subsection unless the demonstration made under this subsection successfully shows that a source other than a regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation. In making a demonstration under this subsection, the owner or operator must:

(A) Notify the department in writing within seven days of determining statistically significant evidence of contamination at the compliance point that he intends to make a demonstration under this subsection;

(B) Within ninety days, submit a report to the department which demonstrates that a source other than a regulated unit caused the contamination or that the contamination resulted from error in sampling, analysis, or evaluation;

(C) Within ninety days, submit to the department an application for a permit modification to make any appropriate changes to the detection monitoring program facility; and

(D) Continue to monitor in accordance with the detection monitoring program established under this section.

(h) If the owner or operator determines that the detection monitoring program no longer satisfies the requirements of this section, he or she must, within ninety days, submit an application for a permit modification to make any appropriate changes to the program.

(10) Compliance monitoring program. An owner or operator required to establish a compliance monitoring program under this section must, at a minimum, discharge the responsibilities described in this subsection.

(a) The owner or operator must monitor the ground water to determine whether regulated units are in compliance with the ground water protection standard under subsection (3) of this section. The department will specify the ground water protection standard in the facility permit, including:

(i) A list of the dangerous constituents and parameters identified under subsection (4) of this section;

(ii) Concentration limits under subsection (5) of this section for each of those dangerous constituents and parameters;

(iii) The compliance point under subsection (6) of this section; and

(iv) The compliance period under subsection (7) of this section.

(b) The owner or operator must install a ground water monitoring system at the compliance point as specified under subsection (6) of this section. The ground water monitoring system must comply with subsection (8)(a)(ii), (b), and (c) of this section.

(c) The department will specify the sampling procedures and statistical methods appropriate for the constituents and the facility, consistent with subsection (8)(g) and (h) of this section.

(i) The owner or operator must conduct a sampling program for each chemical parameter or dangerous constituent in accordance with subsection (8) (g) of this section.

(ii) The owner or operator must record ground water analytical data as measured and in form necessary for the determination of statistical significance under subsection (8)(h) of this section for the compliance period of the facility.

(d) The owner or operator must determine whether there is statistically significant evidence of increased contamination for any chemical parameter or dangerous constituent specified in the permit, pursuant to (a) of this subsection, at a frequency specified under (f) of this subsection.

(i) In determining whether statistically significant evidence of increased contamination exists, the owner or operator must use the method(s) specified in the permit under subsection (8)(h) of this section. The method(s) must compare data collected at the compliance point(s) to a concentration limit developed in accordance with subsection (5) of this section.

(ii) The owner or operator must determine whether there is statistically significant evidence of increased contamination at each monitoring well at the compliance point within a reasonable time period after completion of sampling. The department will specify that time period in the facility permit, after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of ground water samples.

(e) The owner or operator must determine the rate and direction of ground water flow in the uppermost aquifer at least annually.

(f) The department will specify the frequencies for collecting samples and conducting statistical tests to determine statistically significant evidence of increased contamination in accordance with subsection (8)(g) of this section. A sequence of at least four samples from each well (background and compliance wells) must be collected at least semiannually during the compliance period of the facility.

(g) The owner or operator must analyze samples from all monitoring wells at the compliance point for all constituents contained in Appendix IX of Part 264 at least annually to determine whether additional dangerous constituents are present in the uppermost aquifer and, if so, at what concentration, pursuant to procedures in (f) of this subsection. If the owner or operator finds Appendix IX constituents in the ground water that are not already identified in the permit as monitoring constituents, the owner or operator may resample within one month and repeat the Appendix IX analysis. If the second analysis confirms the presence of new constituents, the owner or operator must report the concentration of these additional constituents to the department within seven days after the completion of the second analysis and add them to the monitoring list. If the owner or operator chooses not to resample, then he or she must report the concentrations of these additional constituents to the department within seven days after completion of the initial analysis and add them to the monitoring list. If the owner or operator determines, pursuant to (d) of this

subsection, that any concentration limits under subsection (5) of this section are being exceeded at any monitoring well at the point of compliance, he must:

(i) Notify the department of this finding in writing within seven days. The notification must indicate what concentration limits have been exceeded;

(ii) Submit to the department an application for a permit modification to establish a corrective action program meeting the requirements of subsection (11) of this section, within ninety days, or within sixty days if an engineering feasibility study has been previously submitted to the department under subsection (9)(h)(v) of this section. For regulated units managing EHW, time frames of sixty days and forty-five days, respectively will apply. However, if the department finds that the full extent of the ninety/sixty-day or the sixty/forty-five-day time periods will increase the likelihood to cause a threat to public health, or the environment, it can at its discretion reduce their duration. In specifying shorter limits, the department will consider the following factors:

(A) The physical and chemical characteristics of the dangerous constituents and parameters in the ground water;

(B) The hydrogeological characteristics of the facility and of the surrounding land;

(C) The rate of movement and direction of flow of the affected ground water;

(D) The proximity to and withdrawal rates of ground water users downgradient; and

(E) The current and future uses of ground water in the concerned area; and

(iii) The application must at a minimum include the following information:

(A) A detailed description of corrective actions that will achieve compliance with the ground water protection standard specified in the permit; and

(B) A plan for a ground water monitoring program that will demonstrate the effectiveness of the corrective action.

(i) If the owner or operator determines, pursuant to (d) of this subsection, that the ground water concentration limits under this section are being exceeded at any monitoring well at the point of compliance, he may demonstrate that a source other than a regulated unit caused the contamination or that the detection is an artifact caused by an error in sampling, analysis, or statistical evaluation or natural variation in the ground water. In making a demonstration under this subsection, the owner or operator must:

(i) Notify the department in writing within seven days that he intends to make a demonstration under this subsection;

(ii) Within forty-five days, submit a report to the department which demonstrates that a source other than a regulated unit caused the standard to be exceeded or that the apparent noncompliance with the standards resulted from error in sampling, analysis, or evaluation;

(iii) Within forty-five days, submit to the department an application for a permit modification to make appropriate changes to the compliance monitoring program at the facility; and

(iv) Continue to monitor in accord with the compliance monitoring program established under this section.

(j) If the owner or operator determines that the compliance monitoring program no longer satisfies the requirements of this section, he must, within forty-five days, submit an

application for a permit modification to make any appropriate changes to the program.

(11) Corrective action program. An owner or operator required to establish a corrective action program under this section must, at a minimum, discharge the responsibilities described in this subsection.

(a) The owner or operator must take corrective action to ensure that regulated units are in compliance with the ground water protection standard under subsection (3) of this section. The department will specify the ground water protection standard in the facility permit, including:

(i) A list of the dangerous constituents and parameters identified under subsection (4) of this section;

(ii) Concentration limits under subsection (5) of this section, for each of those dangerous constituents and parameters;

(iii) The compliance point under subsection (6) of this section; and

(iv) The compliance period under subsection (7) of this section.

(b) The owner or operator must implement a corrective action program that prevents dangerous constituents and parameters from exceeding their respective concentration limits at the compliance point by removing the dangerous waste constituents and parameters or treating them in place. The permit will specify the specific measures that will be taken.

(c) The owner or operator must begin corrective action within a reasonable time period after the ground water protection standard is exceeded. The department will specify that time period in the facility permit. If a facility permit includes a corrective action program in addition to a compliance monitoring program, the permit will specify when the corrective action will begin and such a requirement will operate in lieu of subsection (10)(i)(ii) of this section.

(d) In conjunction with a corrective action program, the owner or operator must establish and implement a ground water monitoring program to demonstrate the effectiveness of the corrective action program. Such a monitoring program may be based on the requirements for a compliance monitoring program under subsection (10) of this section, and must be as effective as that program in determining compliance with the ground water protection standard under subsection (3) of this section, and in determining the success of a corrective action program under (e) of this subsection, where appropriate.

(e) In addition to the other requirements of this section, the owner or operator must conduct a corrective action program to remove or treat in place any dangerous constituents or parameters under subsection (4) of this section, that exceed concentration limits under subsection (5) of this section, in ground water between the compliance point under subsection (6) of this section, and the downgradient facility property boundary (~~the permit will specify the measures to be taken~~); and beyond the facility boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the satisfaction of the department that, despite the owner's or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such action. The owner/operator is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where

off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. For a facility seeking or required to have a permit, the corrective action measures to be taken must be specified in the permit.

(i) Corrective action measures under this subsection must be initiated at the effective date of the modified permit and completed without time delays considering the extent of contamination.

(ii) Corrective action measures under this subsection may be terminated once the concentration of dangerous constituents and parameters under subsection (4) of this section, is reduced to levels below their respective concentration limits under subsection (5) of this section.

(f) The owner or operator must continue corrective action measures during the compliance period to the extent necessary to ensure that the ground water protection standard is not exceeded. If the owner or operator is conducting corrective action at the end of the compliance period, he must continue that corrective action for as long as necessary to achieve compliance with the ground water protection standard. The owner or operator may terminate corrective action measures taken beyond the period equal to the active life of the waste management area (including the closure period) if he can demonstrate, based on data from the ground water monitoring program under (d) of this subsection, that the ground water protection standard of subsection (3) of this section, has not been exceeded for a period of three consecutive years.

(g) The owner or operator must report in writing to the department on the effectiveness of the corrective action program. The owner or operator must submit these reports semiannually.

(h) If the owner or operator determines that the corrective action program no longer satisfies the requirements of this section, he must, within forty-five days, submit an application for a permit modification to make any appropriate changes to the program.

(12) ~~((Corrective action for solid waste management units:~~

~~(a) The owner or operator of a facility seeking a permit for the treatment, storage, or disposal of dangerous waste must institute corrective action as necessary to protect human health and the environment for all releases of dangerous waste or constituents from any solid waste management unit at the facility, regardless of the time at which waste was placed in such unit.~~

~~(b) Corrective action will be specified in the permit. The permit will contain schedules of compliance for such corrective action (where such corrective action cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completing such corrective action.~~

~~(c) The owner or operator must implement corrective actions beyond the facility property boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the satisfaction of the department that, despite the owner's or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such actions. The owner/operator is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off site access is denied. On-site measures to address such releases will be determined on a case-by-case basis.~~

~~Assurances of financial responsibility for such corrective action must be provided.)) Use of the Model Toxics Control Act.~~

(a) The department may require the owner/operator of a facility to fulfill his corrective action responsibilities under WAC 173-303-645 using an enforceable action issued pursuant to the Model Toxics Control Act, as amended, (chapter 70.105D RCW) and its implementing regulations.

(b) Corrective action requirements imposed by an action issued pursuant to the Model Toxics Control Act shall be in compliance with the requirements of WAC 173-303-645 and the requirements of chapter 173-303 WAC to the extent required by RCW 70.105D.030 (2)(d) and WAC 173-340-710.

(c) In the case of facilities seeking or required to have a permit under the provisions of this chapter the department will incorporate corrective action requirements imposed pursuant to the Model Toxics Control Act into permits at the time of permit issuance. Such incorporation shall in no way affect the timing or scope of review of the Model Toxics Control Act action.

Reviser's note: The spelling errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

NEW SECTION

WAC 173-303-646 Corrective action. (1) Purpose and applicability.

(a) The provisions of this section establish requirements for corrective action for releases of dangerous wastes and dangerous constituents including releases from solid waste management units.

(b) The provisions of this section apply to facilities seeking or required to have a permit to treat, store, recycle or dispose of dangerous waste.

(c) For the purposes of this section, dangerous constituent shall mean any constituent identified in WAC 173-303-9905 or 40 CFR Part 264 appendix IX, any constituent which caused a waste to be listed or designated as dangerous under the provisions of chapter 173-303 WAC, and any constituent defined as a hazardous substance at RCW 70.105D.020(5).

(2) Requirements.

(a) The owner or operator of a facility must institute corrective action as necessary to protect human health and the environment for all releases of dangerous wastes and dangerous constituents, including releases from all solid waste management units at the facility. Corrective action is required regardless of the time at which waste was managed at the facility or placed in such units and regardless of whether such facilities or units were intended for the management of solid or dangerous waste. Assurances of financial responsibility for such corrective action must be provided.

(b) The owner/operator must implement corrective actions beyond the facility property boundary, where necessary to protect human health and the environment. Additionally, as necessary to protect human health and the environment, the department may require the owner/operator to implement on site measures to address releases which have migrated beyond the facility boundary. Assurances of

financial responsibility for such corrective action must be provided.

(c) In the case of a facility seeking or required to have a permit under the provisions of chapter 173-303 WAC, corrective action must be specified in the permit. The permit will contain schedules of compliance for such corrective action (where such corrective action cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completion of such corrective action.

(3) Use of the Model Toxics Control Act.

(a) The department may require the owner/operator of a facility to fulfill his corrective action responsibilities under subsection (2) of this section using an enforceable action issued pursuant to the Model Toxics Control Act, as amended, (chapter 70.105D RCW) and its implementing regulations.

(b) Corrective action requirements imposed by the department in an action issued pursuant to the Model Toxics Control Act shall be in compliance with the requirements of subsection (2) of this section and the requirements of chapter 173-303 WAC to the extent required by RCW 70.105D.030 (2)(d) and WAC 173-340-710.

(c) In the case of facilities seeking or required to have a permit under the provisions of this chapter the department will incorporate corrective action requirements imposed pursuant to the Model Toxics Control Act into permits at the time of permit issuance. Such incorporation shall in no way affect the timing or scope of review of the Model Toxics Control Act action.

(4) Corrective action management unit (CAMU).

(a) For the purpose of implementing corrective actions required by subsection (2) of this section, the director may choose to designate an area at a facility as a corrective action management unit. Designation of a CAMU shall be in accordance with the provisions of this subsection and subsections (5) and (6) of this section. The director may choose to designate one or more CAMUs at a facility.

(b) Placement of remediation wastes, as defined in WAC 173-303-040 into or within a CAMU does not constitute land disposal of dangerous waste, however, when necessary to protect human health and the environment, the department may require remediation waste meet land disposal standards before placement in a CAMU.

(c) Consolidation or placement of remediation wastes, as defined in WAC 173-303-040 into or within a CAMU does not constitute creation of a unit subject to the minimum technology requirements of WAC 173-303-140(2), however, when necessary to protect human health and the environment, the department may require a CAMU meet all or part of the minimum technology requirements.

(d) Designation of a CAMU shall not in any way affect the department's existing authorities, including authority under chapter 70.105D RCW, to address clean-up levels, media-specific points of compliance, or other remedy selection decisions.

(e) Designation of a CAMU shall not in any way affect the timing or scope of review of any actions taken under the Model Toxics Control Act pursuant to subsection (3) of this section to fulfill the corrective action requirements of subsection (2) of this section or the corrective action requirements of WAC 173-303-645.

(5) Designation of a corrective action management unit.

(a) When designating a CAMU, the director shall do so in accordance with subsection (4) of this section, and the following:

(i) The CAMU shall facilitate the implementation of reliable, effective, protective, and cost-effective remedies;

(ii) Waste management activities associated with the CAMU shall not create unacceptable risks to humans or the environment resulting from exposure to dangerous wastes or dangerous constituents;

(iii) The CAMU shall include uncontaminated areas of the facility only if including such areas for the purposes of managing remediation wastes is more protective than management of such wastes at contaminated areas of the facility;

(iv) Areas within the CAMU where wastes remain in place after closure of the CAMU, shall be managed and contained so as to minimize future releases of dangerous wastes and dangerous constituents to the extent practicable;

(v) When appropriate and practicable, the CAMU shall expedite the timing of remedial activity implementation;

(vi) The CAMU shall enable the use, when appropriate, of treatment technologies (including innovative technologies) to enhance the long-term effectiveness of remedial actions by reducing the toxicity, mobility, or volume of wastes that will remain in place after closure of the CAMU; and

(vii) The CAMU shall, to the extent practicable, minimize the land area of the facility upon which wastes will remain in place after closure of the CAMU.

(b) When designating a CAMU, the director shall specify requirements for the CAMU including the following:

(i) The areal configuration of the CAMU;

(ii) Requirements for remediation waste management within the CAMU including specification of applicable design, operation, and closure requirements;

(iii) Requirements for ground water and/or vadose zone monitoring that are sufficient to:

(A) Continue to detect and to characterize the nature, extent, concentration, direction, and movement of existing releases of dangerous waste and dangerous constituents in ground water from sources located within the CAMU; and

(B) Detect and subsequently characterize releases of dangerous waste and dangerous constituents to ground water that may occur from areas of the CAMU in which wastes will remain in place after CAMU closure.

(iv) Requirements for closure that shall minimize the need for further maintenance of the CAMU and shall include, as appropriate and deemed necessary by the director, the following:

(A) Requirements for excavation, removal, treatment, and/or containment of wastes;

(B) For areas in which wastes will remain after closure of the CAMU, requirements for capping of such areas; and

(C) Requirements for removal and decontamination of equipment, devices, and structures used in remediation waste management activities within the CAMU.

(c) In establishing closure requirements for CAMUs under (b)(iv) of this subsection the director shall consider the following factors:

(i) CAMU characteristics;

(ii) Volume of wastes which will remain in place after CAMU closure;

(iii) Potential for releases from the CAMU;
 (iv) Physical and chemical characteristics of the waste;
 (v) Hydrological and other relevant environmental conditions at the facility which may influence the migration of any potential or actual releases in and/or from the CAMU; and

(vi) Potential for exposure of humans and environmental receptors if releases were to occur at or from the CAMU.

(d) The director shall, for areas of the CAMU in which wastes will remain in place after CAMU closure, specify post-closure requirements to control, minimize, or eliminate, to the extent necessary to protect human health and the environment, post-closure escape of dangerous waste, dangerous constituents, leachate, contaminated runoff, and dangerous waste decomposition products to the ground, to ground waters, to surface waters, and to the atmosphere. Such post-closure requirements shall include, as necessary to protect human health and the environment, monitoring and maintenance activities and the frequency with which such activities shall be performed to ensure the integrity of any cap, final cover, or other containment system.

(e) The owner/operator of a facility shall provide sufficient information to enable the director to designate a CAMU in accordance with the criteria in subsections (4), (5)(a) through (d), and (6) of this section.

(f) The director shall document the rationale for designating CAMUs and shall make such documentation available to the public.

(g) Incorporation of the designation of and requirements for a CAMU into an existing permit must be approved by the director according to the procedures for agency initiated permit modifications under WAC 173-303-830(3), or according to the permit modification procedures of WAC 173-303-830(4).

(6) Incorporation of a regulated unit within a CAMU.

(a) The director may designate a regulated unit (as defined in WAC 173-303-040) as a CAMU, or may incorporate a regulated unit into a CAMU, if:

(i) The regulated unit is closed or closing, meaning it has begun the closure process under WAC 173-303-610 or 173-303-400; and

(ii) Inclusion of the regulated unit will enhance implementation of effective, protective and reliable remedial actions at the facility.

(b) The requirements of WAC 173-303-610, 173-303-620, 173-303-645, and the unit specific requirements of WAC 173-303-650 through 173-303-680 that applied to the regulated unit will continue to apply to the portion of the CAMU into which the regulated unit was incorporated.

(7) Temporary units (TUs)

(a) For temporary tanks and container storage areas used for treatment or storage of remediation wastes during implementation of the corrective action requirements of subsection (2) of this section, the director may determine that a design, operating, or closure standard applicable to such units may be replaced by alternative requirements which are protective of human health and the environment.

(b) Any temporary unit to which alternative requirements are applied in accordance with (a) of this subsection shall be:

(i) Located within the facility boundary; and

(ii) Used only for treatment or storage of remediation wastes managed pursuant to implementation of the corrective action requirements of subsection (2) of this section at the facility.

(c) In establishing standards to be applied to a temporary unit, the director shall consider the following factors:

(i) Length of time unit will be in operation;

(ii) Type of unit;

(iii) Volumes of wastes to be managed;

(iv) Physical and chemical characteristics of the wastes to be managed in the unit;

(v) Potential for releases from the unit;

(vi) Hydrogeological and other relevant environmental conditions at the facility which may influence the migration of any potential releases; and

(vii) Potential for exposure of humans and environmental receptors if releases were to occur from the unit.

(d) The director shall specify the length of time, not to exceed one year, a temporary unit will be allowed to operate. The director shall also specify design, operating, and closure requirements for the temporary unit.

(e) The director may extend the operating period of a temporary unit for up to one additional year, provided the director determines that:

(i) Continued operation of the unit will not pose a threat to human health and the environment; and

(ii) Continued operation of the unit is necessary to ensure timely and efficient implementation of remedial actions at the facility.

(f) Incorporation of the designation of and requirements for a temporary unit or a time extension for a temporary unit into an existing permit shall be:

(i) Approved in accordance with the procedures for agency-initiated permit modifications under WAC 173-303-830(3); or

(ii) Requested by the owner or operator as a Class II modification according to the procedures under WAC 173-303-830(4).

(g) The director shall document the rationale for designating a temporary unit and for granting time extensions for temporary units and shall make such documentation available to the public.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-650 Surface impoundments. (1) Applicability. The regulations in this section apply to owners and operators of facilities that use surface impoundments to treat, store, or dispose of dangerous waste.

(2) Design and operating requirements.

(a)(i) A surface impoundment (except for an existing portion of a surface impoundment) must have a liner that is designed, constructed, and installed to prevent any migration of wastes out of the impoundment to the adjacent subsurface soil or ground water or surface water at any time during the active life (including the closure period) of the impoundment. The liner may be constructed of materials that may allow wastes to migrate into the liner (but not into the adjacent subsurface soil or ground water or surface water) during the active life of the facility, provided that the impoundment is closed in accordance with subsection

(6)(a)(i) of this section. For impoundments that will be closed in accordance with subsection (6)(a)(ii) of this section, the liner must be constructed of materials that can prevent wastes from migrating into the liner during the active life of the facility. The liner must be:

(A) Constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation;

(B) Placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift;

(C) Installed to cover all surrounding earth likely to be in contact with the waste or leachate; and

(D) For EHW management, the owner or operator shall submit an engineering report with his permit application under WAC 173-303-806(4) stating the basis for selecting the liner(s). The report shall be certified by ~~((a-licensed))~~ an independent, qualified registered professional engineer.

(ii) The owner or operator of a new surface impoundment installed after October 31, 1984, and in which liquid EHW is managed must:

(A) Install a double lined system which incorporates the specifications of subsection (3)(a), (b), and (c) of this section; and

(B) Must comply with either the ground water monitoring requirements of WAC 173-303-645, or the unsaturated zone monitoring requirements of WAC 173-303-655(6).

(b) The owner or operator will be exempted from the requirements of (a) of this subsection, if the department finds, based on a demonstration by the owner or operator, that alternate design and operating practices, together with location characteristics, will prevent the migration of any dangerous constituents listed in WAC 173-303-9905, or which otherwise cause his wastes to be regulated under this chapter, into the ground water or surface water at any future time. In deciding whether to grant an exemption, the department will consider:

(i) The nature and quantity of the wastes;

(ii) The proposed alternate design and operation;

(iii) The hydrogeologic setting of the facility, including the attenuative capacity and thickness of the liners and soils present between the impoundment and ground water or surface water; and

(iv) All other factors which would influence the quality and mobility of the leachate produced and the potential for it to migrate to ground water or surface water.

(c) A surface impoundment must be designed, constructed, maintained, and operated to prevent overtopping resulting from normal or abnormal operations; overfilling; wind and wave action; rainfall; run-on; malfunctions of level controllers, alarms, and other equipment; and human error.

(d) A surface impoundment must be designed so that any flow of waste into the impoundment can be immediately shut off in the event of overtopping or liner failure.

(e) A surface impoundment must be designed to repel birds.

(f) A surface impoundment must have dikes that are designed, constructed, and maintained with sufficient structural integrity to prevent their failure. In ensuring structural integrity, it must not be presumed that the liner system will function without leakage during the active life of the unit.

(g) Earthen dikes must be kept free of:

(i) Perennial woody plants with root systems which could weaken its structural integrity; and

(ii) Burrowing mammals which could weaken its structural integrity or create leaks through burrows.

(h) Earthen dikes must have a protective cover, such as grass, shale or rock to minimize wind and water erosion and to preserve their structural integrity.

(i) The department will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this subsection are satisfied.

(3) Double-lined surface impoundments; exemption from WAC 173-303-645, ground water protection requirements.

(a) Except as provided in subsection (2)(a)(ii) of this section, the owner or operator of a double-lined surface impoundment is not subject to regulation under WAC 173-303-645 if the following conditions are met:

(i) The impoundment (including its underlying liners) must be located entirely above the seasonal high water table;

(ii) The impoundment must be underlain by two liners which are designed and constructed in a manner that prevents the migration of liquids into or out of the space between the liners. Both liners must meet all the specifications of subsection (2)(a)(i) of this section;

(iii) A leak detection system must be designed, constructed, maintained, and operated between the liners to detect any migration of liquids into the space between the liners; and

(iv) A leachate detection, collection and removal system must be designed and operated to remove accumulated liquids from the system as quickly as possible so as to avoid unnecessary buildup of hydrostatic pressure in the system.

(b) If liquid leaks into the leak detection system, the owner or operator must:

(i) Notify the department of the leak in writing within seven days after detecting the leak; and

(ii)(A) Within a period of time specified in the permit, remove accumulated liquid, repair or replace the liner which is leaking to prevent the migration of liquids through the liner, and obtain a certification from a qualified engineer that, to the best of his knowledge and opinion, the leak has been stopped; or

(B) If a detection monitoring program pursuant to WAC 173-303-645(9) has already been established in the permit (to be complied with only if a leak occurs), begin to comply with that program and any other applicable requirements of WAC 173-303-645 within the period of time specified in the permit.

(c) The department will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this section are satisfied.

(4) Monitoring and inspection.

(a) During construction and installation, liners (except in the case of existing portions of surface impoundments exempt from subsection (2)(a)(i) of this section) and cover systems (e.g., membranes, sheets, or coatings) must be

inspected for uniformity, damage, and imperfections (e.g., holes, cracks, thin spots, or foreign materials). Immediately after construction or installation:

(i) Synthetic liners and covers must be inspected to ensure tight seams and joints and the absence of tears, punctures, or blisters; and

(ii) Soil-based and admixed liners and covers must be inspected for imperfections including lenses, cracks, channels, root holes, or other structural nonuniformities that may cause an increase in the permeability of the liner or cover.

(b) While a surface impoundment is in operation, it must be inspected weekly and after storms to detect evidence of any of the following:

(i) Deterioration, malfunctions, or improper operation of overlapping control systems;

(ii) Sudden drops in the level of the impoundment's contents;

(iii) The presence of liquids in leak detection systems, where installed to comply with subsection (3) of this section; and

(iv) Severe erosion or other signs of deterioration in dikes or other containment devices.

(c) Prior to the issuance of a permit, and after any extended period of time (at least six months) during which the impoundment was not in service, the owner or operator must obtain a certification from a qualified engineer that the impoundment's dike, including that portion of any dike which provides freeboard, has structural integrity. The certification must establish, in particular, that the dike:

(i) Will withstand the stress of the pressure exerted by the types and amounts of wastes to be placed in the impoundment; and

(ii) Will not fail due to scouring or piping, without dependence on any liner system included in the surface impoundment construction.

(5) Emergency repairs; contingency plans.

(a) A surface impoundment must be removed from service in accordance with (b) of this subsection when:

(i) Unexpected changes of liquid levels occur; or

(ii) The dike leaks.

(b) When a surface impoundment must be removed from service as required by (a) of this subsection, the owner or operator must:

(i) Immediately shut off the flow or stop the addition of wastes into the impoundment;

(ii) Immediately contain any surface leakage which has occurred or is occurring;

(iii) Immediately stop the leak;

(iv) Take any other necessary steps to stop or prevent catastrophic failure;

(v) Empty the impoundment, if a leak cannot be stopped by any other means; and

(vi) Notify the department of the problem in writing within seven days after detecting the problem.

(c) As part of the contingency plan required in WAC 173-303-340 through 173-303-360, the owner or operator must specify:

(i) A procedure for complying with the requirements of (b) of this subsection; and

(ii) A containment system evaluation and repair plan describing: Testing and monitoring techniques; procedures to be followed to evaluate the integrity of the containment

system in the event of a possible failure; description of a schedule of actions to be taken in the event of a possible failure; and the repair techniques and materials (and their availability) to be used in the event of leakage due to containment system failure or deterioration which does not require the impoundment to be removed from service.

(d) No surface impoundment that has been removed from service in accordance with the requirements of this section may be restored to service unless the portion of the impoundment which was failing is repaired and the following steps are taken:

(i) If the impoundment was removed from service as the result of actual or imminent dike failure, the dike's structural integrity must be recertified in accordance with subsection (4)(c) of this section;

(ii) If the impoundment was removed from service as the result of a sudden drop in the liquid level, then:

(A) For any existing portion of the impoundment, a liner must be installed in compliance with subsection (2)(a)(i) or (3) of this section; and

(B) For any other portion of the impoundment, the repaired liner system must be certified by a qualified engineer as meeting the design specifications approved in the permit.

(e) A surface impoundment that has been removed from service in accordance with the requirements of this section and that is not being repaired must be closed in accordance with the provisions of subsection (6) of this section.

(6) Closure and post-closure care.

(a) At closure, the owner or operator must:

(i) Remove or decontaminate all dangerous waste and dangerous waste residues, contaminated containment system components (liners, etc.), contaminated subsoils, and structures and equipment contaminated with dangerous waste and leachate, and manage them as dangerous waste; or

(ii) If the surface impoundment will be closed as a landfill, except that this option is prohibited if EHW would remain in the closed unit(s):

(A) Eliminate free liquids by removing liquid wastes or solidifying the remaining wastes and waste residues;

(B) Stabilize remaining wastes to a bearing capacity sufficient to support a final cover; and

(C) Cover the surface impoundment with a final cover designed and constructed to:

(I) Provide long-term minimization of the migration of liquids through the closed impoundment with a material that has a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present;

(II) Function with minimum maintenance;

(III) Promote drainage and minimize erosion or abrasion of the final cover; and

(IV) Accommodate settling and subsidence so that the cover's integrity is maintained.

(b) If some waste residues or contaminated materials are left in place at final closure (except that no EHW may ever be left in place), the owner or operator must comply with all post-closure requirements contained in WAC 173-303-610 (7), (8), (9), and (10), including maintenance and monitoring throughout the post-closure care period (specified in the permit). The owner or operator must:

(i) Maintain the integrity and effectiveness of the final cover, including making repairs to the cap as necessary to

correct the effects of settling, subsidence, erosion, or other events;

(ii) Maintain and monitor the leak detection system in accordance with subsection (3) of this section, where such a system is present between double liner systems;

(iii) Maintain and monitor the ground water monitoring system and comply with all applicable requirements of WAC 173-303-645; and

(iv) Prevent run-on and run-off from eroding or otherwise damaging the final cover.

(c)(i) If an owner or operator plans to close a surface impoundment in accordance with (a)(i) of this subsection, and the impoundment does not comply with the liner requirements of subsection (2)(a)(i) of this section, and is not exempt from them in accordance with subsection (2)(b) of this section, then:

(A) The closure plan for the impoundment under WAC 173-303-610(3) must include both a plan for complying with (a)(i) of this subsection, and a contingent plan for complying with (a)(ii) of this subsection in case not all contaminated subsoils can be practicably removed at closure; and

(B) The owner or operator must prepare a contingent post-closure plan under WAC 173-303-610(8) for complying with (b) of this subsection in case not all contaminated subsoils can be practicably removed at closure.

(ii) The cost estimates calculated under WAC 173-303-620 (3) and (5) for closure and post-closure care of an impoundment subject to (c) of this subsection must include the cost of complying with the contingent closure plan and the contingent post-closure plan, but are not required to include the cost of expected closure under (a)(i) of this subsection.

(d) During the post-closure care period, if liquids leak into a leak detection system installed under subsection (3) of this section, the owner or operator must notify the department of the leak in writing within seven days after detecting the leak. The department will then modify the permit to require compliance with applicable requirements of WAC 173-303-645, or, if so requested by the owner or operator, to require removal of all materials in accordance with (a)(i) of this subsection.

(7) Special requirements for ignitable or reactive waste. Ignitable or reactive waste must not be placed in a surface impoundment, unless:

(a) The waste is treated, rendered, or mixed before or immediately after placement in the impoundment so that:

(i) The resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090; and

(ii) WAC 173-303-395 (1)(b) is complied with; or

(b) The waste is managed in such a way that it is protected from any material or conditions which may cause it to ignite or react; or

(c) The surface impoundment is used solely for emergencies.

(8) Special requirements for incompatible wastes. Incompatible wastes and materials must not be placed in the same surface impoundment, unless WAC 173-303-395 (1)(b) is complied with.

(9) Special requirements for dangerous wastes F020, F021, F022, F023, F026, and F027.

(a) The wastes F020, F021, F022, F023, F026, or F027 must not be placed in a surface impoundment unless the owner or operator operates the surface impoundment in accordance with a management plan for these wastes that is approved by the department pursuant to the standards set out in this subsection, and in accord with all other applicable requirements of this section. The factors to be considered are:

(i) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;

(ii) The attenuative properties of underlying and surrounding soils or other materials;

(iii) The mobilizing properties of other materials co-disposed with these wastes; and

(iv) The effectiveness of additional treatment, design, or monitoring techniques.

(b) The department may determine that additional design, operating, and monitoring requirements are necessary in order to reduce the possibility of migration of these wastes to ground water, surface water, or air so as to protect human health and the environment.

AMENDATORY SECTION (Amending Order DE-85-10, filed 6/3/86)

WAC 173-303-655 Land treatment. (1) Applicability. The regulations in this subpart apply to owners and operators of facilities that treat or dispose of dangerous waste in land treatment units, except as WAC 173-303-600 provides otherwise.

(2) Treatment program.

(a) An owner or operator subject to this section must establish a land treatment program that is designed to ensure that dangerous constituents placed in or on the treatment zone are degraded, transformed, or immobilized within the treatment zone. The department will specify in the facility permit the elements of the treatment program, including:

(i) The wastes that are capable of being treated at the unit based on a demonstration under subsection (3) of this section;

(ii) Design measures and operating practices necessary to maximize the success of degradation, transformation, and immobilization processes in the treatment zone in accordance with subsection (4)(a) of this section; and

(iii) Unsaturated zone monitoring provisions meeting the requirements of subsection (6) of this section.

(b) The department will specify in the facility permit the dangerous constituents that must be degraded, transformed, or immobilized under this section. Dangerous constituents are constituents identified in WAC 173-303-9905, and any other constituents which, although not listed in WAC 173-303-9905, cause a waste to be regulated under this chapter, that are reasonably expected to be in, or derived from, waste placed in or on the treatment zone.

(c) The department will specify the vertical and horizontal dimensions of the treatment zone in the facility permit. The treatment zone is the portion of the unsaturated zone below, and including, the land surface in which the owner or operator intends to maintain the conditions necessary for effective degradation, transformation, or immobilization of

dangerous constituents. The maximum depth of the treatment zone must be:

(i) No more than 1.5 meters (5 feet) below the initial soil surface; and

(ii) More than 3 meters (10 feet) above the seasonal high water table; except that the owner or operator may demonstrate to the satisfaction of the department that a distance of less than 3 meters will be adequate. In no case shall the distance be less than 1 meter.

(3) Treatment demonstration.

(a) For each waste that will be applied to the treatment zone, the owner or operator must demonstrate, prior to application of the waste, that dangerous constituents in the waste can be completely degraded, transformed, or immobilized in the treatment zone.

(b) In making this demonstration, the owner or operator may use field tests, laboratory analyses, available data, or, in the case of existing units, operating data. If the owner or operator intends to conduct field tests or laboratory analyses in order to make the demonstration required under (a) of this subsection, he must obtain a land treatment demonstration permit under WAC 173-303-808. The department will specify in this permit the testing, analytical, design, and operating requirements (including the duration of the tests and analyses, and, in the case of field tests, the horizontal and vertical dimensions of the treatment zone, monitoring procedures, closure, and clean-up activities) necessary to meet the requirements in (c) of this subsection.

(c) Any field test or laboratory analysis conducted in order to make a demonstration under (a) of this subsection must:

(i) Accurately simulate the characteristics and operating conditions for the proposed land treatment unit including:

(A) The characteristics of the waste and of dangerous constituents present;

(B) The climate in the area;

(C) The topography of the surrounding area;

(D) The characteristics and depth of the soil in the treatment zone; and

(E) The operating practices to be used at the unit;

(ii) Be likely to show that dangerous constituents in the waste to be tested will be completely degraded, transformed, or immobilized in the treatment zone of the proposed land treatment unit; and

(iii) Be conducted in a manner that protects human health and the environment considering:

(A) The characteristics of the waste to be tested;

(B) The operating and monitoring measures taken during the course of the test;

(C) The duration of the test;

(D) The volume of waste used in the test; and

(E) In the case of field tests, the potential for migration of dangerous constituents to ground water or surface water.

(4) Design and operating requirements. The department will specify in the facility permit how the owner or operator will design, construct, operate, and maintain the land treatment unit in compliance with this subsection.

(a) The owner or operator must design, construct, operate, and maintain the unit to maximize the degradation, transformation, and immobilization of dangerous constituents in the treatment zone. The owner or operator must design, construct, operate, and maintain the unit in accordance with

all design and operating conditions that were used in the treatment demonstration under subsection (3) of this section. At a minimum, the department will specify in the facility permit:

(i) The rate and method of waste application to the treatment zone;

(ii) Measures to control soil pH;

(iii) Measures to enhance microbial or chemical reactions (e.g., fertilization, tilling); and

(iv) Measures to control the moisture content of the treatment zone.

(b) The owner or operator must design, construct, operate, and maintain the treatment zone to minimize run-off of dangerous constituents during the active life of the land treatment unit.

(c) The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the treatment zone during peak discharge from at least a twenty-five-year storm.

(d) The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume resulting from a twenty-four-hour, twenty-five-year storm.

(e) Collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems must be emptied or otherwise managed expeditiously and in accordance with this chapter after storms to maintain the design capacity of the system.

(f) If the treatment zone contains particulate matter which may be subject to wind dispersal, the owner or operator must control wind dispersal.

(g) The owner or operator must inspect the unit weekly and after storms to detect evidence of:

(i) Deterioration, malfunctions, or improper operation of run-on and run-off control systems; and

(ii) Improper functioning of wind dispersal control measures.

(5) Food chain crops. The department may allow the growth of food chain crops in or on the treatment zone only if the owner or operator satisfies the conditions of this subsection. The department will specify in the facility permit the specific food chain crops which may be grown.

(a)(i) The owner or operator must demonstrate that there is no substantial risk to human health caused by the growth of such crops in or on the treatment zone by demonstrating, prior to the planting of such crops, that dangerous constituents other than cadmium:

(A) Will not be transferred to the food or feed portions of the crop by plant uptake or direct contact, and will not otherwise be ingested by food chain animals (e.g., by grazing); or

(B) Will not occur in greater concentrations in or on the food or feed portions of crops grown on the treatment zone than in or on identical portions of the same crops grown on untreated soils under similar conditions in the same region.

(ii) The owner or operator must make the demonstration required under (a)(i) of this subsection prior to the planting of crops at the facility for all dangerous constituents that are reasonably expected to be in, or derived from, waste placed in or on the treatment zone.

(iii) In making such a demonstration, the owner or operator may use field tests, greenhouse studies, available

data, or, in the case of existing units, operating data, and must:

(A) Base the demonstration on conditions similar to those present in the treatment zone, including soil characteristics (e.g., pH, cation exchange capacity), specific wastes, application rates, application methods, and crops to be grown; and

(B) Describe the procedures used in conducting any tests, including the sample selection criteria, sample size, analytical methods, and statistical procedures.

(iv) If the owner or operator intends to conduct field tests or greenhouse studies in order to make the demonstration he must obtain a permit for conducting such activities.

(b) The owner or operator must comply with the following conditions if cadmium is contained in wastes applied to the treatment zone;

(i)(A) The pH of the waste and soil mixture must be 6.5 or greater at the time of each waste application, except for waste containing cadmium at concentrations of 2 mg/kg (dry weight) or less;

(B) The annual application of cadmium from waste must not exceed 0.5 kilograms per hectare (kg/ha) on land used for production of tobacco, leafy vegetables, or root crops grown for human consumption. For other food chain crops, the annual cadmium application rate must not exceed:

| Time period | Annual Cd application rate (kilograms per hectare) |
|---|--|
| Present to June 30, 1984 | 2.0 |
| July 1, 1984 to Dec. 31, 1986 | 1.25 |
| Beginning Jan. 1, 1987 | 0.5 |

(C) The cumulative application of cadmium from waste must not exceed 5kg/ha if the waste and soil mixture has a pH of less than 6.5; and

(D) If the waste and soil mixture has a pH of 6.5 or greater or is maintained at a pH of 6.5 or greater during crop growth, the cumulative application of cadmium from waste must not exceed: 5 kg/ha if soil cation exchange capacity (CEC) is less than 5 meq/100g; 10 kg/ha if soil CEC is 5-15 meq/100g; and 20 kg/ha if soil CEC is greater than 15 meq/100g; or

(ii)(A) Animal feed must be the only food chain crop produced;

(B) The pH of the waste and soil mixture must be 6.5 or greater at the time of waste application or at the time the crop is planted, whichever occurs later, and this pH level must be maintained whenever food chain crops are grown;

(C) There must be an operating plan which demonstrates how the animal feed will be distributed to preclude ingestion by humans. The operating plan must describe the measures to be taken to safeguard against possible health hazards from cadmium entering the food chain, which may result from alternative land uses; and

(D) Future property owners must be notified by a stipulation in the land record or property deed which states that the property has received waste at high cadmium application rates and that food chain crops must not be grown except in compliance with (b)(ii) of this subsection.

(6) Unsaturated zone monitoring. An owner or operator subject to this section must establish an unsaturated zone monitoring program to discharge the responsibilities described in this subsection.

(a) The owner or operator must monitor the soil and soil-pore liquid to determine whether dangerous constituents migrate out of the treatment zone.

(i) The department will specify the dangerous constituents to be monitored in the facility permit. The dangerous constituents to be monitored are those specified under subsection (2)(b) of this section.

(ii) The department may require monitoring for principal dangerous constituents (PDCs) in lieu of the constituents specified under subsection (2)(b) of this section. PDCs are dangerous constituents contained in the wastes to be applied at the unit that are the most difficult to treat, considering the combined effects of degradation, transformation, and immobilization. The department will establish PDCs if it finds, based on waste analyses, treatment demonstrations, or other data, that effective degradation, transformation, or immobilization of the PDCs will assure treatment at (⌘) least equivalent levels for the other dangerous constituents in the wastes.

(b) The owner or operator must install an unsaturated zone monitoring system that includes soil monitoring using soil cores and soil-pore liquid monitoring using devices such as lysimeters. The unsaturated zone monitoring system must consist of a sufficient number of sampling points at appropriate locations and depths to yield samples that:

(i) Represent the quality of background soil-pore liquid quality and the chemical make-up of soil that has not been affected by leakage from the treatment zone; and

(ii) Indicate the quality of soil-pore liquid and the chemical make-up of the soil below the treatment zone.

(c) The owner or operator must establish a background value for each dangerous constituent to be monitored under (a) of this subsection. The permit will specify the background values for each constituent or specify the procedures to be used to calculate the background values.

(i) Background soil values may be based on a one-time sampling at a background plot having characteristics similar to those of the treatment zone.

(ii) Background soil-pore liquid values must be based on at least quarterly sampling for one year at a background plot having characteristics similar to those of the treatment zone.

(iii) The owner or operator must express all background values in a form necessary for the determination of statistically significant increases under (f) of this subsection.

(iv) In taking samples used in the determination of all background values, the owner or operator must use an unsaturated zone monitoring system that complies with (b)(i) of this subsection.

(d) The owner or operator must conduct soil monitoring and soil-pore liquid monitoring immediately below the treatment zone. The department will specify the frequency and timing of soil and soil-pore liquid monitoring in the facility permit after considering the frequency, timing, and rate of waste application, and the soil permeability. The owner or operator must express the results of soil and soil-pore liquid monitoring in a form necessary for the determination of statistically significant increases under (f) of this subsection.

PERMANENT

(e) The owner or operator must use consistent sampling and analysis procedures that are designed to ensure sampling results that provide a reliable indication of soil-pore liquid quality and the chemical make-up of the soil below the treatment zone. At a minimum, the owner or operator must implement procedures and techniques for:

- (i) Sample collection;
- (ii) Sample preservation and shipment;
- (iii) Analytical procedures; and
- (iv) Chain of custody control.

(f) The owner or operator must determine whether there is a statistically significant change over background values for any dangerous constituent to be monitored under (a) of this subsection, below the treatment zone each time he conducts soil monitoring and soil-pore liquid monitoring under (d) of this subsection.

(i) In determining whether a statistically significant increase has occurred, the owner or operator must compare the value of each constituent, as determined under (d) of this subsection, to the background value for that constituent according to the statistical procedure specified in the facility permit under this subsection.

(ii) The owner or operator must determine whether there has been a statistically significant increase below the treatment zone within a reasonable time period after completion of sampling. The department will specify that time period in the facility permit after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of soil and soil-pore liquid samples.

(iii) The owner or operator must determine whether there is a statistically significant increase below the treatment zone using a statistical procedure that provides reasonable confidence that migration from the treatment zone will be identified. The department will specify a statistical procedure in the facility permit that it finds:

(A) Is appropriate for the distribution of the data used to establish background values; and

(B) Provides a reasonable balance between the probability of falsely identifying migration from the treatment zone and the probability of failing to identify real migration from the treatment zone.

(g) If the owner or operator determines, pursuant to (f) of this subsection, that there is a statistically significant increase of dangerous constituents below the treatment zone, he must:

(i) Notify the department of his finding in writing within seven days. The notification must indicate what constituents have shown statistically significant increases;

(ii) Within forty-five days, submit to the department an application for a permit modification to amend the operating practices at the facility in order to maximize the success of degradation, transformation, or immobilization processes in the treatment zone; and

(iii) Continue to monitor in accordance with the unsaturated zone monitoring program established under this subsection.

(h) If the owner or operator determines, pursuant to (f) of this subsection, that there is a statistically significant increase of dangerous constituents below the treatment zone, he may demonstrate that a source other than regulated units caused the increase or that the increase resulted from an

error in sampling, analysis, or evaluation. While the owner or operator may make a demonstration under this subsection, he is not relieved of the requirement to submit concurrently a permit modification application within the forty-five-day period, unless the demonstration made under this subsection successfully shows that a source other than regulated units caused the increase or that the increase resulted from an error in sampling, analysis, or evaluation. In making a demonstration under this subsection, the owner or operator must:

(i) Notify the department in writing within seven days of determining a statistically significant increase below the treatment zone that he intends to make a demonstration under this subsection;

(ii) Within forty-five days, submit a report to the department demonstrating that a source other than the regulated units caused the increase or that the increase resulted from error in sampling, analysis, or evaluation;

(iii) Within forty-five days, submit to the department an application for a permit modification to make any appropriate changes to the unsaturated zone monitoring program at the facility; and

(iv) Continue to monitor in accordance with the unsaturated zone monitoring program established under this subsection.

(7) Recordkeeping. The owner or operator must include dangerous waste application dates and rates in the operating record required under WAC 173-303-380.

(8) Closure and postclosure care.

(a) During the closure period the owner or operator must:

(i) Continue all operations (including pH control) necessary to maximize degradation, transformation, or immobilization of dangerous constituents within the treatment zone as required under subsection (4)(a) of this section, except to the extent such measures are inconsistent with (a)(viii) of this subsection;

(ii) Continue all operations in the treatment zone to minimize run-off of dangerous constituents as required under subsection (4)(b) of this section;

(iii) Maintain the run-on control system required under subsection (4)(c) of this section;

(iv) Maintain the run-off management system required under subsection (4)(d) of this section;

(v) Control wind dispersal of dangerous waste if required under subsection (4)(f) of this section;

(vi) Continue to comply with any prohibitions or conditions concerning growth of food chain crops under subsection (5) of this section;

(vii) Continue unsaturated zone monitoring in compliance with subsection (6) of this section, except that soil-pore liquid monitoring may be terminated ninety days after the last application of waste to the treatment zone; and

(viii) Establish a vegetative cover on the portion of the facility being closed at such time that the cover will not substantially impede degradation, transformation, or immobilization of dangerous constituents in the treatment zone. The vegetative cover must be capable of maintaining growth without extensive maintenance.

(b) For the purpose of complying with WAC 173-303-610(6) when closure is completed, the owner or operator may submit to the department a certification by an indepen-

dent qualified soil scientist, in lieu of ~~((a-licensed))~~ an independent, qualified registered professional engineer, that the facility has been closed in accordance with the specifications in the approved closure plan.

(c) During the postclosure care period the owner or operator must:

(i) Continue all operations (including pH control) necessary to enhance degradation and transformation and sustain immobilization of dangerous constituents in the treatment zone to the extent that such measures are consistent with other postclosure care activities;

(ii) Maintain a vegetative cover over closed portions of the facility;

(iii) Maintain the run-on control system required under subsection (4)(c) of this section;

(iv) Maintain the run-off management system required under subsection (4)(d) of this section;

(v) Control wind dispersal of dangerous waste, if required under subsection (4)(f) of this section;

(vi) Continue to comply with any prohibitions or conditions concerning growth of food chain crops under subsection (5) of this section; and

(vii) Continue unsaturated zone monitoring in compliance with subsection (6) of this section, except that soil-pore liquid monitoring may be terminated one hundred eighty days after the last application of waste to the treatment zone.

(d) The owner or operator is not subject to regulation under (a)(viii) and (c) of this subsection, if the department finds that the level of dangerous constituents in the treatment zone soil does not exceed the background value of those constituents by an amount that is statistically significant when using the test specified in (d)(iii) of this subsection. The owner or operator may submit such a demonstration to the department at any time during the closure or postclosure care periods. For the purposes of this subsection:

(i) The owner or operator must establish background soil values and determine whether there is a statistically significant increase over those values for all dangerous constituents specified in the facility permit under subsection (2)(b) of this section;

(A) Background soil values may be based on a one-time sampling of a background plot having characteristics similar to those of the treatment zone;

(B) The owner or operator must express background values and values for dangerous constituents in the treatment zone in a form necessary for the determination of statistically significant increases under (d)(iii) of this subsection;

(ii) In taking samples used in the determination of background and treatment zone values, the owner or operator must take samples at a sufficient number of sampling points and at appropriate locations and depths to yield samples that represent the chemical make-up of soil that has not been affected by leakage from the treatment zone and the soil within the treatment zone, respectively;

(iii) In determining whether a statistically significant increase has occurred, the owner or operator must compare the value of each constituent in the treatment zone to the background value for that constituent using a statistical procedure that provides reasonable confidence that constituent presence in the treatment zone will be identified. The owner or operator must use a statistical procedure that:

(A) Is appropriate for the distribution of the data used to establish background values; and

(B) Provides a reasonable balance between the probability of falsely identifying dangerous constituent presence in the treatment zone and the probability of failing to identify real presence in the treatment zone.

(e) The owner or operator is not subject to regulation under WAC 173-303-645 if the department finds that the owner or operator satisfies (d) of this subsection, and if unsaturated zone monitoring under subsection (6) of this section, indicates that dangerous constituents have not migrated beyond the treatment zone during the active life of the land treatment unit.

(9) Special requirements for ignitable or reactive waste. The owner or operator must not apply ignitable or reactive waste to the treatment zone unless:

(a) The waste is immediately incorporated into the soil so that:

(i) The resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under WAC 173-303-090 (5) and (7); and

(ii) WAC 173-303-395 is complied with; or

(b) The waste is managed in such a way that it is protected from any material or conditions which may cause it to ignite or react.

(10) Special requirements for incompatible wastes. The owner or operator must not place incompatible wastes, or incompatible wastes and materials, in or on the same treatment zone, unless WAC 173-303-395 (1)(b) is complied with.

(11) Special requirements for extremely hazardous waste. Under no circumstances will EHW be allowed to remain in a closed land treatment unit after concluding the postclosure care period. If EHW remains at the end of the scheduled postclosure care period specified in the permit, then the department will either extend the postclosure care period, or require that all EHW be disposed of off-site or that it be treated. In deciding whether to extend postclosure care or require disposal or treatment, the department will take into account the likelihood that the waste will or will not continue to degrade in the land treatment unit to the extent that it is no longer EHW. For the purposes of this subsection, EHW will be considered to remain in a land treatment unit if representative samples of the treatment zone are designated as EHW. Procedures for representative sampling and testing will be specified in the permit.

(12) Special requirements for dangerous wastes F020, F021, F022, F023, F026, and F027.

(a) Dangerous wastes F020, F021, F022, F023, F026, or F027 must not be placed in a land treatment unit unless the owner or operator operates the facility in accordance with a management plan for these wastes that is approved by the department pursuant to the standards set out in this subsection and in accord with all other applicable requirements of this chapter. The factors to be considered are:

(i) The volume, physical, and chemical characteristics of the wastes including their potential to migrate through soil or to volatilize or escape into the atmosphere;

(ii) The attenuative properties of underlying and surrounding soils or other materials;

(iii) The mobilizing properties of other materials co-disposed with these wastes; and

(iv) The effectiveness of additional treatment, design, or monitoring techniques.

(b) The department may determine that additional design, operating, and monitoring requirements are necessary for land treatment facilities managing dangerous wastes F020, F021, F022, F023, F026, or F027 in order to reduce the possibility of migration of these wastes to ground water, surface water, or air so as to protect human health and the environment.

Reviser's note: The spelling errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order DE-87-4, filed 6/26/87)

WAC 173-303-660 Waste piles. (1) Applicability.

(a) The regulations in this section apply to owners and operators of facilities that store or treat dangerous waste in piles.

(b) The regulations in this section do not apply to owners or operators of waste piles that will be closed with wastes left in place. Such waste piles are subject to regulation under WAC 173-303-665 (Landfills).

(c) The owner or operator of any waste pile that is inside or under a structure that provides protection from precipitation so that neither run-off nor leachate is generated is not subject to regulation under subsection (2) of this section, or under WAC 173-303-645, provided that:

(i) Liquids or materials containing free liquids are not placed in the pile;

(ii) The pile is protected from surface water run-on by the structure or in some other manner;

(iii) The pile is designed and operated to control dispersal of the waste by wind, by means other than wetting; and

(iv) The pile will not generate leachate through decomposition or other reactions.

(d) All EHW and respiratory carcinogens stored in waste piles must be protected from dispersal by precipitation or wind (e.g., covered, stored inside a building, etc.).

(2) Design and operating requirements.

(a) A waste pile (except for an existing portion of a waste pile) must have:

(i) A liner that is designed, constructed, installed and maintained to prevent any migration of wastes out of the pile into the adjacent subsurface soil or ground water or surface water at any time during the active life (including the closure period) of the waste pile. The liner may be constructed of materials that may allow waste to migrate into the liner itself (but not into the adjacent subsurface soil or ground water or surface water) during the active life of the facility. The liner must be:

(A) Constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation;

(B) Placed upon a foundation or base capable of providing support to the liner and resistance to pressure

gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift; and

(C) Installed to cover all surrounding earth likely to be in contact with the waste or leachate; and

(ii) A leachate collection and removal system immediately above the liner that is designed, constructed, maintained, and operated to collect and remove leachate from the pile. The department will specify design and operating conditions in the permit to ensure that the leachate depth over the liner does not exceed 30 cm (one foot). The leachate collection and removal system must be:

(A) Constructed of materials that are:

(I) Chemically resistant to the waste managed in the pile and to the leachate expected to be generated; and

(II) Of sufficient strength and thickness to prevent collapse under the pressures exerted by overlaying wastes, waste cover materials, and by any equipment used at the pile; and

(B) Designed and operated to function without clogging through the scheduled closure of the waste pile.

(b) A liner and leachate collection and removal system must be protected from plant growth which could adversely affect any component of the system.

(c) For EHW management, the owner or operator shall submit an engineering report with his permit application stating the basis for selecting the liner required in subsection (2)(a)(i) of this section. The statement shall be certified by ~~(a licensed)~~ an independent, qualified registered professional engineer.

(d) The owner or operator will be exempted from the requirements of (a), (b), and (c) of this subsection, if the department finds, based on a demonstration by the owner or operator, that alternate design and operating practices, together with location characteristics, will prevent the migration of any dangerous constituents identified under WAC 173-303-645(4) into the ground water or surface water at any future time. In deciding whether to grant an exemption, the department will consider:

(i) The nature and quantity of the wastes;

(ii) The proposed alternate design and operation;

(iii) The hydrogeologic setting of the facility, including attenuative capacity and thickness of the liners and soils present between the pile and ground water or surface water; and

(iv) All other factors which would influence the quality and mobility of the leachate produced and the potential for it to migrate to ground water or surface water.

(e) The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto any portion of the pile during peak discharge from at least a twenty-five-year storm.

(f) The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume resulting from a twenty-four-hour, twenty-five-year storm.

(g) Collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems must be emptied or otherwise managed expeditiously and in accordance with this chapter after storms to maintain design capacity of the system.

(h) If the pile contains any particulate matter which may be subject to wind dispersal, the owner or operator must cover or otherwise manage the pile to control wind dispersal.

(i) The department will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this subsection are satisfied.

(3) Double-lined piles; exemption from WAC 173-303-645, ground water protection requirements.

(a) The owner or operator of a double-lined waste pile is not subject to regulation under WAC 173-303-645 if the following conditions are met:

(i) The pile (including its underlying liners) must be located entirely above the seasonal high water table;

(ii) The pile must be underlain by two liners which are designed and constructed in a manner that prevents the migration of liquids into or out of the space between the liners. Both liners must meet all the specifications of subsection (2)(a)(i) and (c) of this section;

(iii) A leak detection system must be designed, constructed, maintained, and operated between the liners to detect any migration of liquids into the space between the liners; and

(iv) The pile must have a leachate collection and removal system above the top liner that is designed, constructed, maintained, and operated in accordance with subsection (2)(a)(ii) of this section.

(b) If liquid leaks into the leak detection system, the owner or operator must:

(i) Notify the department of the leak in writing within seven days after detecting the leak; and

(ii)(A) Within the period of time specified in the permit, remove accumulated liquid, repair or replace the liner which is leaking to prevent the migration of liquids through the liner, and obtain a certification from a qualified engineer that, to the best of his knowledge and opinion, the leak has been stopped; or

(B) If a detection monitoring program pursuant to WAC 173-303-645(9) has already been defined in the permit (to be complied with only if a leak occurs), begin to comply with that program and any other applicable requirements of WAC 173-303-645 within the period of time specified in the permit.

(c) The department will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this subsection are satisfied.

(4) Inspection of liners; exemption from WAC 173-303-645, ground water protection requirements.

(a) The owner or operator of a pile is not subject to regulation under WAC 173-303-645 if the following conditions are met:

(i) The pile (including its underlying liner) must be located entirely above the seasonal high water table;

(ii) The pile must be underlain by a liner (base) that meets all the specifications of subsection (2)(a)(i) of this section;

(iii) The wastes in the pile must be removed periodically, and the liner must be inspected for deterioration, cracks, or other conditions that may result in leaks. The frequency of inspection will be specified in the inspection plan required in WAC 173-303-320 and must be based on the potential for the liner (base) to crack or otherwise deteriorate under the conditions of operation;

(iv) The liner must be of sufficient strength and thickness to prevent failure due to puncture, cracking, tearing, or other physical damage from equipment used to place waste in or on the pile or to clean and expose the liner surface for inspection; and

(v) The pile must have a leachate collection and removal system above the liner that is designed, constructed, maintained, and operated in accordance with subsection (2)(a)(ii) of this section.

(b) If deterioration, cracking, or other condition is identified that is causing or could cause a leak, the owner or operator must:

(i) Notify the department of the condition in writing within seven days after detecting the condition; and

(ii)(A) Repair or replace the liner (base) and obtain a certification from a qualified engineer that, to the best of his knowledge and opinion, the liner (base) has been repaired and leakage will not occur; or

(B) If a detection monitoring program pursuant to WAC 173-303-645(9) has already been defined in the permit (to be complied with only if a leak occurs), begin to comply with that program and any other applicable requirements of WAC 173-303-645 within the period of time specified in the permit.

(c) The department will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this subsection are satisfied.

(5) Monitoring and inspection.

(a) During construction or installation, liners (except in the case of existing portions of piles exempt from subsection (2)(a) of this section), and cover systems (e.g., membranes, sheets, coatings) must be inspected for uniformity, damage, and imperfections (e.g., holes, cracks, thin spots, foreign materials). Immediately after construction or installation:

(i) Synthetic liners and covers must be inspected to ensure tight seams and joints and the absence of tears, punctures, or blisters; and

(ii) Soil-based and admixed liners and covers must be inspected for imperfections including lenses, cracks, channels, root holes, or other structural nonuniformities that may cause an increase in the permeability of the liner or cover.

(b) While a waste pile is in operation, it must be inspected weekly and after storms to detect evidence of any of the following:

(i) Deterioration, malfunctions, or improper operation of run-on and run-off control systems;

(ii) The presence of liquids in leak detection systems, where installed to comply with subsection (3) of this section;

(iii) Proper functioning of wind dispersal control systems; and

(iv) The presence of leachate in and proper functioning of leachate collection and removal systems.

(6) Containment system repairs—Contingency plans.

(a) Whenever there is any indication of a possible failure of the containment system, that system must be inspected in accordance with the provisions of the containment system evaluation and repair plan required by (d) of this subsection. Indications of possible failure of the containment system include liquid detected in the leachate detection system, evidence of leakage or the potential for leakage in the base, erosion of the base, or apparent or

potential deterioration of the liner(s) based on observation or test samples of the liner materials.

(b) Whenever there is a positive indication of a failure of the containment system, the waste pile must be removed from service. Indications of positive failure of the containment system include waste detected in the leachate detection system, or a breach (e.g., a hole, tear, crack, or separation) in the base.

(c) If the waste pile must be removed from service as required by (b) of this subsection, the owner or operator must:

- (i) Immediately stop adding wastes to the pile;
- (ii) Immediately contain any leakage which has occurred or is occurring;
- (iii) Immediately cause the leak to be stopped; and
- (iv) If the leak cannot be stopped by any other means, remove the waste from the base.

(d) As part of the contingency plan required in WAC 173-303-350, the owner or operator must specify:

(i) A procedure for complying with the requirements of (c) of this subsection; and

(ii) A containment system evaluation and repair plan describing: Testing and monitoring techniques; procedures to be followed to evaluate the integrity of the containment system in the event of a possible failure; a schedule of actions to be taken in the event of a possible failure; and a description of the repair techniques and materials (and their availability) to be used in the event of leakage due to containment system failure or deterioration which does not require the waste pile to be removed from service. For EHW piles, the owner or operator must submit with his permit application a statement signed by ~~(a licensed)~~ an independent, qualified registered professional engineer of the basis on which the evaluation and repair plan has been established.

(e) No waste pile that has been removed from service pursuant to (b) of this subsection, may be restored to service unless:

- (i) The containment system has been repaired; and
- (ii) The containment system has been certified by a qualified engineer as meeting the design specifications approved in the permit.

(f) A waste pile that has been removed from service pursuant to (b) of this subsection, and will not be repaired, must be closed in accordance with subsection (9) of this section.

(7) Special requirements for ignitable or reactive waste. Ignitable or reactive waste must not be placed in a pile, unless:

(a) Addition of the waste to an existing pile results in the waste or mixture no longer meeting the definition of ignitable or reactive waste under WAC 173-303-090, and complies with WAC 173-303-395 (1)(b); or

(b)(i) The waste is managed in such a way that it is protected from any material or conditions which may cause it to ignite or react; and

(ii) The generator complies with WAC 173-303-395 (1)(d).

(8) Special requirements for incompatible wastes.

(a) Incompatible wastes, or incompatible wastes and materials must not be placed in the same pile, unless WAC 173-303-395 (1)(b) is complied with.

(b) A pile of dangerous waste that is incompatible with any waste or other material stored nearby in other containers, piles, open tanks, or surface impoundments must be separated from the other materials, or protected from them by means of a dike, berm, wall, or other device. Piles of incompatible wastes must not be served by the same containment system.

(c) Dangerous waste must not be piled on the same base where incompatible wastes or materials were previously piled, unless the base has been decontaminated sufficiently to ensure compliance with WAC 173-303-395 (1)(b).

(9) Closure and postclosure care.

(a) At closure, the owner or operator must remove or decontaminate all dangerous waste, waste residues, contaminated containment system components (liners, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and manage them in accordance with this chapter.

(b) If, after removing or decontaminating all residues and making all reasonable efforts regarding removal or decontamination of contaminated components, subsoils, structures, and equipment as required in (a) of this subsection, the owner or operator finds that not all contaminated subsoils can be practicably removed or decontaminated (except that no EHW may ever be left in place), he must close the facility and perform postclosure care in accordance with the closure and postclosure care requirements that apply to landfills, WAC 173-303-665(6).

(c)(i) The owner or operator of a waste pile that does not comply with the liner requirements of subsection (2)(a)(i) of this section, and is not exempt from them in accordance with subsection (1)(c) or (2)(d) of this section, must:

(A) Include in the closure plan for the pile under WAC 173-303-610(3) both a plan for complying with (a) of this subsection, and a contingent plan for complying with (b) of this subsection, in case not all contaminated subsoils can be practicably removed at closure; and

(B) Prepare a contingent postclosure plan under WAC 173-303-610(8) for complying with (b) of this subsection, in case not all contaminated subsoils can be practicably removed at closure.

(ii) The cost estimates calculated under WAC 173-303-620 (3) and (5) for closure and postclosure care of a pile must include the cost of complying with the contingent closure plan and the contingent postclosure plan but are not required to include the cost of expected closure under (a) of this subsection.

(10) Special requirements for dangerous wastes F020, F021, F022, F023, F026, and F027.

(a) Dangerous wastes F020, F021, F022, F023, F026, and F027 must not be placed in waste piles that are not enclosed (as defined in subsection (1)(c) of this section) unless the owner or operator operates the waste pile in accordance with a management plan for these wastes that is approved by the department pursuant to the standards set out in this subsection, and in accord with all other applicable requirements of this chapter. The factors to be considered are:

(i) The volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere;

(ii) The attenuative properties of underlying and surrounding soils or other materials;

(iii) The mobilizing properties of other materials co-disposed with these wastes; and

(iv) The effectiveness of additional treatment, design, or monitoring techniques.

(b) The department may determine that additional design, operating, and monitoring requirements are necessary in order to reduce the possibility of migration of these wastes to ground water, to surface water, or air so as to protect human health and the environment.

AMENDATORY SECTION (Amending Order DE-85-10, filed 6/3/86)

WAC 173-303-670 Incinerators. (1) Applicability.

(a) Except as WAC 173-303-600 provides otherwise, the regulations in this section apply to owners and operators of facilities that incinerate dangerous waste and to owners and operators who burn dangerous waste in boilers or industrial furnaces in order to destroy them, or who burn dangerous waste in boilers or in industrial furnaces for any recycling purpose and elect to be regulated under this section.

(b) The department may, in establishing permit conditions, exempt the facility from all requirements of this section except subsection (2) of this section, waste analysis, and subsection (8) of this section, closure, if the department finds, after an examination of the waste analysis included with Part B of the owner/operator's permit application, that the waste to be burned:

(i)(A) Is either listed as a dangerous waste in WAC 173-303-080 only because it is ignitable or, that the waste is designated only as an ignitable dangerous waste under WAC 173-303-090; or

(B) Is either listed in WAC 173-303-080 or is designated under WAC 173-303-090 solely because it is reactive for the characteristics described in WAC 173-303-090 (7)(a)(i), (ii), (iii), (vi), (vii) and (viii), and will not be burned when other dangerous wastes are present in the combustion zone; and

(ii) Contains none of the dangerous constituents listed in WAC 173-303-9905 above significant concentration limits; and

(iii) Is not designated by the dangerous waste criteria of WAC (~~173-303-101, Toxic dangerous wastes, nor of WAC 173-303-102, Persistent dangerous wastes, nor of WAC 173-303-103, Carcinogenic dangerous wastes~~) 173-303-100.

(c) The owner or operator of an incinerator may conduct trial burns, subject only to the requirements of WAC 173-303-807, trial burn permits.

(2) Waste analysis.

(a) As a portion of a trial burn plan required by WAC 173-303-807, or with Part B of his permit application, the owner or operator must have included an analysis of his waste feed sufficient to provide all information required by WAC 173-303-807 or 173-303-806 (3) and (4).

(b) Throughout normal operation the owner or operator must conduct sufficient waste analysis to verify that waste feed to the incinerator is within the physical and chemical composition limits specified in his permit (under subsection (6)(b) of this section).

(3) Designation of principal organic dangerous constituents and dangerous combustion byproducts. Principal organic dangerous constituents (PODCs) and dangerous combustion byproducts must be treated to the extent required by the performance standards specified in subsection (4) of this section. For each waste feed to be burned, one or more PODCs and dangerous combustion byproducts will be specified in the facility's permit from among those constituents listed in WAC 173-303-9905 and, to the extent practical, from among those constituents which contribute to the toxicity, persistence, or carcinogenicity of wastes designated under WAC (~~173-303-084 or 173-303-101 through 173-303-103~~) 173-303-100. This specification will be based on the degree of difficulty of incineration of the organic constituents of the waste feed and its combustion byproducts and their concentration or mass, considering the results of waste analyses and trial burns or alternative data submitted with Part B of the facility's permit application. Organic constituents or byproducts which represent the greatest degree of difficulty of incineration will be those most likely to be designated as PODCs and dangerous combustion byproducts. Constituents are more likely to be designated as PODCs or dangerous combustion byproducts if they are present in large quantities or concentrations. Trial PODCs will be designated for performance of trial burns in accordance with the procedure specified in WAC 173-303-807 for obtaining trial burn permits. Trial dangerous combustion byproducts may be designated under the same procedures.

(4) Performance standards. An incinerator burning dangerous waste must be designed, constructed, and maintained so that, when operated in accordance with operating requirements specified under subsection (6) of this section, it will meet the following performance standards:

(a)(i) Except as provided in (a)(ii) of this subsection, an incinerator burning dangerous waste must achieve a destruction and removal efficiency (DRE) of 99.99 percent for each PODC designated (under subsection (3) of this section) in its permit for each waste feed. DRE is determined for each PODC from the following equation:

$$DRE = \frac{(w_{in} - w_{out}) \times 100\%}{w_{in}}$$

Where:

w_{in} = Mass feed rate of one PODC in the waste stream feeding the incinerator, and

w_{out} = Mass emission rate of the same PODC present in exhaust emissions prior to release to the atmosphere.

(ii) An incinerator burning dangerous wastes F020, F021, F022, F023, F026, or F027 must achieve a destruction and removal efficiency (DRE) of 99.9999% for each principal organic dangerous constituent (PODCs) designated (under subsection (3) of this section) in its permit. This performance must be demonstrated on PODCs that are more difficult to incinerate than tetra-, penta-, and hexachlorodibenzo-p-dioxins and dibenzofurans. DRE is determined for each PODCs from the equation in subsection (4)(a)(i) of this section. In addition, the owner or operator of the incinerator must notify the department of his intent to

incinerate dangerous wastes F020, F021, F022, F023, F026, or F027.

(b) Incinerators burning dangerous waste must destroy dangerous combustion byproducts designated under subsection (3) of this section so that the total mass emission rate of these byproducts emitted from the stack is no more than .01 percent of the total mass feed rate of PODCs fed into the incinerator.

(c)(i) An incinerator burning dangerous waste and producing stack emissions of more than 1.8 kilograms per hour (4 pounds per hour) of hydrogen chloride (HCl) must control HCl emissions such that the rate of emission is no greater than the larger of either 1.8 kilograms per hour or one percent of the HCl in the stack gas prior to entering any pollution control equipment.

(ii) An incinerator burning dangerous waste must not emit particulate matter in excess of 180 milligrams per dry standard cubic meter (0.08 grains per dry standard cubic foot) when corrected for the amount of oxygen in the stack gas according to the formula:

$$P_c = \frac{P_m \times 14}{21 - Y}$$

Where P_c is the corrected concentration of particulate matter, P_m is the measured concentration of particulate matter, and Y is the measured concentration of oxygen in the stack gas, using the Orsat method for oxygen analysis of dry flue gas, presented in 40 CFR Part 60, Appendix A (Method 3). This correction procedure is to be used by all dangerous waste incinerators except those operating under conditions of oxygen enrichment. For these facilities, the department will select an appropriate correction procedure to be specified in the facility permit.

(d) The emission standards specified in (c) of this subsection shall be met when no other more stringent standards exist. Where a state or local air pollution control authority has jurisdiction and has more stringent emission standards, an incinerator burning dangerous wastes shall comply with the applicable air pollution control authority's emission standards (including limits based on best available control technology).

(e) For purposes of permit enforcement, compliance with the operating requirements specified in the permit (under subsection (6) of this section), will be regarded as compliance with subsection (4) of this section. However, evidence that compliance with those permit conditions is insufficient to ensure compliance with the performance requirements of subsection (4) of this section, may be evidence justifying modification, revocation, or reissuance of a permit under WAC 173-303-830.

(5) Trial burns and permit modifications.

(a) The owner or operator of a dangerous waste incinerator may burn only wastes specified in his permit and only under operating conditions specified for those wastes under subsection (6) of this section, except:

(i) In approved trial burns under WAC 173-303-807; or

(ii) Under exemptions created by WAC 173-303-670(1).

(b) New dangerous wastes may be burned only after operating conditions have been specified in a trial burn permit or a permit modification has been issued, as applicable. Operating requirements for new wastes may be based

on either trial burn results or alternative data included with Part B of a permit application under WAC 173-303-806(4).

(c) The permit for a new dangerous waste incinerator must establish appropriate conditions for each of the applicable requirements of this section, including but not limited to allowable waste feeds and operating conditions necessary to meet the requirements of subsection (6) of this section, sufficient to comply with the following standards:

(i) For the period beginning with initial introduction of dangerous waste to the incinerator and ending with initiation of the trial burn, and only for the minimum time required to establish operating conditions required in (c)(ii) of this subsection, not to exceed a duration of seven hundred twenty hours operating time for treatment of dangerous waste. The operating requirements must be those most likely to ensure compliance with the performance standards of subsection (4) of this section, based on the department's engineering judgment. The department may extend the duration of this period once for up to seven hundred twenty additional hours when good cause for the extension is demonstrated by the applicant;

(ii) For the duration of the trial burn, the operating requirements must be sufficient to demonstrate compliance with the performance standards of subsection (4) of this section, and must be in accordance with the approved trial burn plan;

(iii) For the period immediately following completion of the trial burn, and only for the minimum period sufficient to allow sample analysis, data computation, and submission of the trial burn results by the applicant, and review of the trial burn results and modification of the facility permit by the department, the operating requirements must be those most likely to ensure compliance with the performance standards of subsection (4) of this section, based on the department's engineering judgment;

(iv) For the remaining duration of the permit, the operating requirements must be those demonstrated, in a trial burn or by alternative data specified in WAC 173-303-806(4)(f)(iii)(G), as sufficient to ensure compliance with the performance standards of subsection (4) of this section.

(6) Operating requirements.

(a) An incinerator must be operated in accordance with operating requirements specified in the permit. These will be specified on a case-by-case basis as those demonstrated (in a trial burn or in alternative data as specified in subsection (5)(b) of this section and included with Part B of a facility's permit application) to be sufficient to comply with the performance standards of subsection (4) of this section.

(b) Each set of operating requirements will specify the composition of the waste feed (including acceptable variations in the physical or chemical properties of the waste feed which will not affect compliance with the performance requirement of subsection (4) of this section) to which the operating requirements apply. For each such waste feed, the permit will specify acceptable operating limits including the following conditions:

(i) Carbon monoxide (CO) level in the stack exhaust gas;

(ii) Waste feed rate;

(iii) Combustion temperature;

(iv) An appropriate indicator of combustion gas velocity;

(v) Allowable variations in incinerator system design or operating procedures; and

(vi) Such other operating requirements as are necessary to ensure that the performance standards of subsection (4) of this section are met.

(c) During startup and shutdown of an incinerator, dangerous waste (except waste exempted in accordance with subsection (1)(b) of this section) must not be fed into the incinerator unless the incinerator is operating within the conditions of operation (temperature, air feed rate, etc.) specified in the permit.

(d) Fugitive emissions from the combustion zone must be controlled by:

(i) Keeping the combustion zone totally sealed against fugitive emissions;

(ii) Maintaining a combustion zone pressure lower than atmospheric pressure; or

(iii) An alternate means of control demonstrated (with Part B of the permit application) to provide fugitive emissions control equivalent to maintenance of combustion zone pressure lower than atmospheric pressure.

(e) An incinerator must be operated with a functioning system to automatically cut off waste feed to the incinerator when operating conditions deviate from limits established under (a) of this subsection.

(f) An incinerator must cease operation when changes in waste feed, incinerator design, or operating conditions exceed limits designated in its permit.

(7) Monitoring and inspections.

(a) The owner or operator must conduct, as a minimum, the following monitoring while incinerating dangerous waste:

(i) Combustion temperature, waste feed rate, and the indicator of combustion gas velocity specified in the facility permit must be monitored on a continuous basis;

(ii) Carbon monoxide (CO) must be monitored on a continuous basis at a point in the incinerator downstream of the combustion zone and prior to release to the atmosphere; and

(iii) As required by the department, sampling and analysis of the waste and exhaust emissions must be conducted to verify that the operating requirements established in the permit achieve the performance standards of subsection (4) of this section.

(b) The incinerator and associated equipment (pumps, valves, conveyors, pipes, etc.) must be completely inspected at least daily for leaks, spills, fugitive emissions, and signs of tampering. All emergency waste feed cutoff controls and system alarms must be tested at least weekly to verify proper operation, unless the owner or operator demonstrates to the department that weekly inspections will unduly restrict or upset operations and that less frequent inspection will be adequate. At a minimum, emergency cutoff and alarm systems must be tested at least monthly.

(c) This monitoring and inspection data must be recorded and the records must be placed in the operating log required by WAC 173-303-380(1).

(8) Closure. At closure the owner or operator must remove all dangerous waste and dangerous waste residues (including, but not limited to, ash, scrubber waters, and scrubber sludges) from the incinerator site. Remaining equipment, bases, liners, soil, and debris containing or

contaminated with dangerous waste or waste residues must be decontaminated or removed.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-680 Miscellaneous units. (1) Applicability. The requirements of this section apply to owners and operators of facilities that treat, store, or dispose of dangerous waste in miscellaneous units, except as WAC 173-303-600 provides otherwise.

(2) Environmental performance standards. A miscellaneous unit must be located, designed, constructed, operated, maintained, and closed in a manner that will ensure protection of human health and the environment. Permits for miscellaneous units are to contain such terms and provisions as necessary to protect human health and the environment, including, but not limited to, as appropriate, design and operating requirements, detection and monitoring requirements, and requirements for responses to releases of dangerous waste or dangerous constituents from the unit. Permit terms and provisions shall include those requirements in WAC 173-303-630 through 173-303-670, 173-303-806, and 40 CFR Part 146 that are appropriate for the miscellaneous units being permitted. Protection of human health and the environment includes, but is not limited to:

(a) Prevention of any releases that may have adverse effects on human health or the environment due to migration of wastes constituents in the ground water or subsurface environment, considering:

(i) The volume and physical and chemical characteristics of the waste in the unit, including its potential for migration through soil, liners, or other containing structures;

(ii) The hydrologic and geologic characteristics of the unit and the surrounding area;

(iii) The existing quality of ground water, including other sources of contamination and their cumulative impact on the ground water;

(iv) The quantity and direction of ground water flow;

(v) The proximity to and withdrawal rates of current and potential ground water users;

(vi) The patterns of land use in the region;

(vii) The potential for deposition or migration of waste constituents into subsurface physical structures, and into the root zone of food-chain crops and other vegetation;

(viii) The potential for health risks caused by human exposure to waste constituents; and

(ix) The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents.

(b) Prevention of any release that may have adverse effects on human health or the environment due to migration of waste constituents in surface water, or wetlands or on the soil surface considering:

(i) The volume and physical and chemical characteristics of the waste in the unit;

(ii) The effectiveness and reliability of containing, confining, and collecting systems and structures in preventing migration;

(iii) The hydrologic characteristics of the unit and the surrounding area, including the topography of the land around the unit;

(iv) The patterns of precipitation in the region;

(v) The quantity, quality, and direction of ground water flow;

(vi) The proximity of the unit to surface waters;

(vii) The current and potential uses of nearby surface waters and any water quality standards established for those surface waters;

(viii) The existing quality of surface waters and surface soils, including other sources of contamination and their cumulative impact on surface waters and surface soils;

(ix) The patterns of land use in the region;

(x) The potential for health risks caused by human exposure to waste constituents; and

(xi) The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents.

(c) Prevention of any release that may have adverse effects on human health or the environment due to migration of waste constituents in the air, considering:

(i) The volume and physical and chemical characteristics of the waste in the unit, including its potential for the emission and dispersal of gases, aerosols and particulates;

(ii) The effectiveness and reliability of systems and structures to reduce or prevent emissions of dangerous constituents to the air;

(iii) The operating characteristics of the unit;

(iv) The atmospheric, meteorologic, and topographic characteristics of the unit and the surrounding area;

(v) The existing quality of the air, including other sources of contamination and their cumulative impact on the air;

(vi) The potential for health risks caused by human exposure to waste constituents; and

(vii) The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents.

(3) Monitoring, analysis, inspection, response, reporting, and corrective action. Monitoring, testing, analytical data, inspections, response, and reporting procedures and frequencies must ensure compliance with subsection (2) of this section, WAC 173-303-320, 173-303-340(1), 173-303-380(3), 173-303-390 (1) and (3), and ~~((173-303-645(12)))~~ 173-303-646(2) as well as meet any additional requirements needed to protect human health and the environment as specified in the permit.

(4) Postclosure care. A miscellaneous unit that is a disposal unit must be maintained in a manner that complied with subsection (2) of this section during the postclosure care period. In addition, if a treatment or storage unit has contaminated soils or ground water that cannot be completely removed or decontaminated during closure, then that unit must also meet the requirements of subsection (2) of this section during postclosure care. The postclosure plan under WAC 173-303-610(8) must specify the procedures that will be used to satisfy this requirement.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-800 Permit requirements for dangerous waste management facilities. (1) The purpose of WAC 173-303-800 through 173-303-840 is to establish the requirements for permits which will allow a dangerous waste facility to operate without endangering the public health and the environment.

(2) The owner/operator of a dangerous waste facility that transfers, treats, stores, or disposes (TSD) or recycles dangerous waste shall, when required by this chapter, obtain a permit in accordance with WAC 173-303-800 through 173-303-840 covering the active life, closure period, ground water protection compliance period, and for any regulated unit (as defined in WAC 173-303-040)~~((and))~~ or for any facility which at closure does not meet the removal or decontamination limits of WAC 173-303-610 (2)(b), post-closure care period ~~((in accordance with WAC 173-303-800 through 173-303-840))~~, unless they demonstrate closure by removal or decontamination as provided under WAC 173-303-800 (9) and (10). The denial of a permit for the active life of a dangerous waste management facility or unit does not affect the requirement to obtain a post-closure permit under this section.

(3) TSD facility permits will be granted only if the objectives of the siting and performance standards set forth in WAC ~~((173-303-420))~~ 173-303-282 and 173-303-283 are met.

(4) Permits shall be issued according to the requirements of all applicable TSD facility standards.

(5) The owner/operator of a TSD facility is responsible for obtaining all other applicable federal, state, and local permits authorizing the development and operation of the TSD facility.

(6) The terms used in regard to permits which are not defined in WAC 173-303-040 shall have the same meanings as set forth in 40 CFR 270.2.

(7) Exemptions.

(a) A permit for an on-site cleanup action may be exempted as provided in a consent decree or order signed by the department and issued pursuant to chapter 70.105D RCW.

(b) A permit is not required for an on-site cleanup action performed by the department pursuant to chapter 70.105D RCW.

(8) Each permit issued under this chapter shall contain terms and conditions as the department determines necessary to protect human health and the environment.

(9) Closure by removal. Owners/operators of surface impoundments, land treatment units, and waste piles closing by removal or decontamination under 40 CFR Part 265 standards as referenced by WAC 173-303-400 must obtain a post-closure permit unless they can demonstrate to the department that the closure met the standards for closure by removal or decontamination in WAC 173-303-650(6), 173-303-655(8), or 173-303-660(9), as appropriate, and such removal or decontamination must assure that the levels of dangerous waste or dangerous waste constituents or residues do not exceed standards for closure at 40 CFR Part 264.111, as appropriate. The demonstration may be made in the following ways:

(a) If the owner/operator has submitted a Part B application for a post-closure permit, the owner/operator may request a determination, based on information contained in the application, that 40 CFR Part 264.111 standards for closure by removal were met. If the department believes that 40 CFR Part 264.111 standards were met, the department will notify the public of this proposed decision, allow for public comment, and reach a final determination according to the procedures in subsection (10) of this section.

(b) If the owner/operator has not submitted a Part B application for a post-closure permit, the owner/operator may petition the department for a determination that a post-closure permit is not required because the closure met the applicable 40 CFR Part 264.111 closure standards.

(i) The petition must include data demonstrating that standards for closure by removal or decontamination were met, or it must demonstrate that the unit closed under chapter 173-303 WAC requirements that met or exceeded the applicable 40 CFR Part 264.111 closure-by-removal standard.

(ii) The department shall approve or deny the petition according to the procedures outline in subsection (10) of this section.

(10) Procedures for closure equivalency determination.

(a) If a facility owner/operator seeks an equivalency demonstration under subsection (9) of this section, the department will provide the public, through a newspaper notice, the opportunity to submit written comments on the information submitted by the owner/operator within thirty days from the date of the notice. The department will also, in response to a request or at the discretion of the department, hold a public hearing whenever such a hearing might clarify one or more issues concerning the equivalence of the 40 CFR Part 265 closure, as referenced by WAC 173-303-400, to a 40 CFR Part 264.111 closure. The department will give public notice of the hearing at least thirty days before it occurs. (Public notice of the hearing may be given at the same time as notice of the opportunity for the public to submit written comments, and the two notices may be combined.)

(b) The department will determine whether the 40 CFR Part 265 closure met 40 CFR Part 264.111 closure by removal or decontamination requirements within ninety days of its receipt. If the department finds that the closure did not meet the applicable 40 CFR Part 264.111 standards, the department will provide the owner/operator with a written statement of the reasons why the closure failed to meet 40 CFR Part 264.111 standards. The owner/operator may submit additional information in support of an equivalency demonstration within thirty days after receiving such written statement. The department will review any additional information submitted and make a final determination within sixty days.

(c) If the department determines that the facility did not close in accordance with 40 CFR Part 264.111 standards for closure by removal, the facility is subject to post-closure permitting requirements.

(11) The department may require a permittee or an applicant to submit information in order to establish permit conditions under subsection (8) of this section and WAC 173-303-806 (11)(d).

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-802 Permits by rule. (1) Purpose and applicability. This section provides for permit by rule for particular facilities and activities managing dangerous wastes, provided that certain conditions are met. These facilities, activities, and conditions are listed in this section. Owners and operators of facilities with permits by rule are not required to submit an application for a dangerous waste facility permit.

(2) Ocean disposal barges or vessels. The owner or operator of a barge or other vessel which accepts dangerous waste for ocean disposal, shall have a permit by rule if the owner or operator:

(a) Has a permit for ocean dumping issued under 40 CFR Part 220 (Ocean Dumping, authorized by the Marine Protection, Research, and Sanctuaries Act, as amended, 33 U.S.C. § 1420 et seq.);

(b) Complies with the conditions of that permit; and

(c) Complies with the following dangerous waste regulations:

(i) WAC 173-303-060, notification and identification numbers;

(ii) WAC 173-303-170 through 173-303-230 when initiating shipments of dangerous waste;

(iii) WAC 173-303-370, manifest system;

(iv) WAC 173-303-380 (1)(a), operating record;

(v) WAC 173-303-390(2), annual report; and

(vi) WAC 173-303-390(1), unmanifested waste report.

(3) Underground injection wells. Underground injection wells with an underground injection control (UIC) permit for underground injection shall have a permit by rule if the owner or operator has a UIC permit issued by the department under a federally approved program for underground injection control, and complies with the conditions of the permit and requirements of 40 CFR 144.14 and applicable state waste discharge rules. For UIC permits issued after November 8, 1984, the owner or operator must comply with WAC 173-303-646(2), corrective action for solid waste management units; and where the UIC well is the only unit at a facility which requires a RCRA permit, complies with WAC 173-303-806 (4)(a)(xxiii). All underground injection wells must comply with WAC 173-303-060, notification and identification numbers. However, underground injection wells disposing of EHW are prohibited.

(4) Publicly owned treatment works (POTW). The owner or operator of a POTW which accepts dangerous waste for treatment, shall have a permit by rule if the owner or operator:

(a) Has a National Pollutant Discharge Elimination System (NPDES) permit;

(b) Complies with the conditions of that permit;

(c) Complies with the following regulations:

(i) WAC 173-303-060, notification and identification numbers;

(ii) WAC 173-303-170 through 173-303-230 when initiating shipments of dangerous waste;

(iii) WAC 173-303-283, performance standards;

(iv) WAC 173-303-370, manifest system;

(v) WAC 173-303-380 (1)(a), operating record;

(vi) WAC 173-303-390(2), annual report; ~~((and))~~

(vii) WAC 173-303-390(1), unmanifested waste reports; and

(viii) For NPDES permits issued after November 8, 1984, WAC 173-303-646(2), corrective action for solid waste management units:

(d) Accepts the waste only if it meets all federal, state, and local pretreatment requirements which would be applicable to the waste if it were being discharged into the POTW through a sewer, pipe, or similar conveyance; and

(e) Accepts no EHW for disposal at the POTW.

(5) Totally enclosed treatment facilities or elementary neutralization or wastewater treatment units.

(a) The owner or operator of a totally enclosed treatment facility or an elementary neutralization or wastewater treatment unit that treats dangerous wastes shall have a permit by rule, except as provided in (b) of this subsection, if he:

(i) Has ~~((a))~~ an NPDES permit, state waste discharge permit, pretreatment permit (or written discharge authorization from the local sewerage authority) ((and the permit or authorization provides effluent limits for the hazardous constituents, and provides for the use of all known, available, and reasonable methods of prevention, control, and treatment of pollution pursuant to chapter 90.48 RCW, prior to discharge)) issued by the department, or pretreatment permit (or written discharge authorization) from a local sewage utility delegated pretreatment program responsibilities pursuant to RCW 90.48.165, and the permit or authorization covers the waste stream and constituents being discharged;

(ii) Complies with the conditions of that permit;

(iii) Complies with the following regulations:

(A) WAC 173-303-060, notification and identification numbers;

(B) WAC 173-303-070, designation of dangerous waste;

(C) WAC 173-303-283, performance standards;

(D) WAC 173-303-300, general waste analysis;

(E) WAC 173-303-310, security;

~~((E))~~ (F) WAC 173-303-350, contingency plan and emergency procedures;

~~((F))~~ (G) WAC 173-303-360, emergencies;

~~((G))~~ (H) WAC 173-303-370, manifest system;

~~((H))~~ (I) WAC 173-303-380 (1)(d), operating record;

~~((I))~~ (J) WAC 173-303-390, facility reporting.

(b) The department may require the owner or operator of a totally enclosed treatment facility or an elementary neutralization or wastewater treatment unit subject to ~~((either))~~ (a) of this subsection to apply for and obtain a final facility permit in accordance with WAC 173-303-800 through 173-303-840, if:

(i) The owner or operator violates the general facility or performance requirements specified in (a) of this subsection;

(ii) The owner or operator is conducting other activities which require him to obtain a final facility permit;

(iii) The department determines that the general facility or performance requirements specified in (a) of this subsection, are not sufficient to protect public health or the environment and that additional requirements under this chapter are necessary to provide such protection; or

(iv) The owner or operator does not comply with applicable local, state or federal requirements established pursuant to sections 402 or 307(b) of the Federal Clean Water Act, or chapter 90.48 RCW.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-805 Interim status permits. (1) Applicability. This section applies to all facilities eligible for an interim status permit. When a facility is owned by one person but is operated by another person, it is the operator's duty to qualify for interim status, except that the owner must also sign an interim status application. Prior to submittal of an interim status permit application the requirements of WAC 173-303-281 must be met.

(2) Failure to qualify for interim status. If the department has reason to believe upon examination of a Part A application that it fails to provide the required information, it shall notify the owner or operator in writing of the apparent deficiency. Such notice shall specify the grounds for the department's belief that the application is deficient. The owner or operator shall have thirty days from receipt to respond to such a notification and to explain or cure the alleged deficiency in his Part A application. If, after such notification and opportunity for response, the department determines that the application is deficient it may take appropriate enforcement action.

(3) Interim status for facilities under RCRA interim status. Any existing facility operating under interim status gained under section 3005 of RCRA shall be deemed to have an interim status permit under this chapter provided that the owner/operator complies with the applicable requirements of WAC 173-303-400 and this section.

(4) Interim status for facilities managing state-designated (non-RCRA) dangerous wastes. Any existing facility which does not satisfy subsection (3) of this section, but which is only managing dangerous wastes that are not hazardous wastes under 40 CFR Part 261, shall be deemed to have an interim status permit provided that the owner/operator of the facility has complied with the notification requirements of WAC 173-303-060 by May 11, 1982 and has submitted Part A of his permit application by August 9, 1982. If an existing facility becomes subject to this chapter due to amendments to this chapter and the facility was not previously subject to this chapter, then the owner/operator of an existing facility may qualify for an interim status permit by complying with the notification requirements of WAC 173-303-060 within three months, and submitting Part A of his permit application within six months, after the adoption date of the amendments which cause the facility to be subject to the requirements of this chapter. Facilities qualifying for interim status under this subsection shall not be deemed to have interim status under section 3005 of RCRA, and may only manage non-RCRA wastes until they either qualify separately for interim status under section 3005 of RCRA or receive a final status facility permit allowing them to manage RCRA wastes.

(5) Maintaining the interim status permit.

(a) Timely notification and submission of a Part A application qualifies the owner/operator of the existing TSD facility for the interim status permit, until the department terminates interim status pursuant to subsection (8) of this section.

(b) Interim status for the existing TSD facility shall be maintained while the department makes final administrative

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disposition of a final facility permit pursuant to WAC 173-303-806 if:

(i) The owner/operator has submitted his final facility permit application (as described in WAC 173-303-806) within six months of the written request by the department to submit such application; and

(ii) Grounds for terminating interim status (as described in subsection (8) of this section) do not exist.

(c) The owner/operator of an interim status facility must update his Part A whenever he is managing wastes that are newly regulated under this chapter, and as necessary to comply with subsection (7) of this section. Failure to comply with this updating requirement is a violation of interim status.

(6) Prohibitions for interim status permits. Facilities with an interim status permit shall not:

(a) Treat, store, or dispose of dangerous waste not specified in Part A of the permit application;

(b) Employ processes not specified in Part A of the permit application; or

(c) Exceed the design capacities specified in Part A of the permit application.

(7) Changes during interim status.

(a) Except as provided in (b) of this subsection, the owner or operator of an interim status facility may make the following changes at the facility:

(i) Treatment, storage, or disposal of new dangerous wastes not previously identified in Part A of the permit application (and, in the case of newly listed or identified wastes, addition of the units being used to treat, store, or dispose of the dangerous wastes on the effective date of the listing or identification) if the owner or operator submits a revised Part A permit application prior to such treatment, storage, or disposal (along with a justification detailing the equipment and process or processes that the owner or operator will use to treat, store, or dispose of the new dangerous wastes) and if the department does not explicitly deny the changes within sixty days of receipt of the revised application;

(ii) Increases in the design capacity of processes used at the facility if the owner or operator submits a revised Part A permit application prior to such a change (along with a justification explaining the need for the change), the requirements of WAC 173-303-281 are met, and the department approves the changes because:

(A) There is a lack of available treatment, storage, or disposal capacity at other dangerous waste management facilities; or

(B) The change is necessary to comply with a federal, state, or local requirement.

(iii) Changes in the processes for the treatment, storage, or disposal of dangerous waste or addition of processes if the owner or operator submits a revised Part A permit application prior to such change (along with a justification explaining the need for the change) and the department approves the change because:

(A) The change is necessary to prevent a threat to human health and the environment because of an emergency situation; or

(B) The change is necessary to comply with a federal, state, or local requirement.

(iv) Changes in the ownership or operational control of a facility if the new owner or operator submits a revised Part A permit application no later than ninety days prior to the scheduled change. When a transfer of operational control of a facility occurs, the old owner or operator shall comply with the interim status financial requirements of 40 CFR Part 265, Subpart H (as referenced in WAC 173-303-400), until the new owner or operator has demonstrated to the department that he is complying with the financial requirements. Upon demonstration to the department by the new owner or operator of compliance with the interim status financial requirements, the department shall notify the old owner or operator in writing that he no longer needs to comply with the interim status financial requirements as of the date of demonstration. The new owner or operator must demonstrate compliance with the financial requirements within six months of the date of the change in ownership or operational control of the facility. All other interim status duties are transferred effective immediately upon the date of the change in ownership or operational control of the facility.

(v) Changes made in accordance with an interim status corrective action order issued by EPA under section 3008(h) of RCRA or other federal authority, including an order or consent decree issued pursuant to WAC 173-303-646 (2) or (3), by the department under chapter 70.105 RCW or other state authority, or by a court in a judicial action brought by EPA or by the department. Changes under this subsection (7)(a)(v) are limited to the treatment, storage, or disposal of solid waste from releases that originate within the boundary of the facility.

(b) Except as specifically allowed under this subsection (7)(b), changes listed under (a) of this subsection may not be made if they amount to reconstruction of the dangerous waste management facility. Reconstruction occurs when the capital investment in the changes to the facility exceeds fifty percent of the capital cost of a comparable entirely new dangerous waste management facility. If all other requirements are met, the following changes may be made even if they amount to a reconstruction:

(i) Changes made solely for the purposes of complying with the requirements of WAC 173-303-640(4) for tanks and ancillary equipment.

(ii) If necessary to comply with federal, state, or local requirements, changes to an existing unit, changes solely involving tanks or containers, or addition of replacement surface impoundments that satisfy the standards of section 3004(o) of RCRA.

(iii) Changes that are necessary to allow owners or operators to continue handling newly listed or identified dangerous wastes that have been treated, stored, or disposed of at the facility prior to the effective date of the rule establishing the new listing or identification.

(iv) Changes during closure of a facility or of a unit within a facility made in accordance with an approved closure plan.

(v) Changes necessary to comply with an interim status corrective action order issued by EPA under section 3008(h) or other federal authority, by an authorized state under comparable state authority, or by a court in a judicial proceeding brought by EPA or an authorized state, provided that such changes are limited to the treatment, storage, or

disposal of solid waste from releases that originate within the boundary of the facility.

(vi) Changes to treat or store, in tanks or containers, hazardous wastes subject to land disposal restrictions imposed by 40 CFR Part 268 or RCRA section 3004, provided that such changes are made solely for the purpose of complying with 40 CFR Part 268 or RCRA section 3004.

(8) Termination of interim status permit. The following are causes for terminating an interim status permit, or for denying a revised permit application:

(a) Final administrative disposition of a final facility permit application is made pursuant to WAC 173-303-806;

(b) When the department on examination or reexamination of a Part A application determines that it fails to meet the applicable standards of this chapter, it may notify the owner or operator that the application is deficient and that the interim status permit has been revoked. The owner or operator will then be subject to enforcement for operating without a permit;

(c) Failure to submit a requested Part B application on time, or to provide in full the information required in the Part B application;

(d) Violation of applicable interim status standards; or

(e) A determination that the permit applicant has failed to satisfy the performance standards of WAC 173-303-283.

(9) Special waste facilities. If the department determines, pursuant to WAC 173-303-550 through 173-303-560, that interim status standards can be reduced, the department will issue a notice of interim status modification stating what standards will be applied. Failure to comply with the conditions and standards as stated in the notice of modification or with the requirements of this section shall form a basis for revoking the notice. Upon revocation of the notice of interim status modification by the department, the owner or operator shall be subject to all of the requirements applicable to interim status dangerous waste management facilities. Before issuing the notice of modification, the department shall provide public notice of its intent, shall allow thirty days for public comment, and shall hold a public hearing if there is a significant degree of public interest or there is written notice of opposition and the department receives a request for a hearing during the comment period. Notice of a public hearing shall be provided at least fifteen days in advance, and the public comment period shall be extended to include the date of the hearing if it will occur after the initial thirty-day comment period. Within fifteen days of the end of the public comment period the department shall, based on comments received, issue, modify and issue, or deny the notice of interim status modification.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-806 Final facility permits. (1) Applicability. This section applies to all dangerous waste facilities required to have a final facility permit. The final facility permit requirements are applicable to:

(a) Final status TSD facilities;

(b) Special waste management facilities; and

(c) Certain recycling facilities that are not exempt from the permit requirements.

(2) Application. Any person subject to the permit requirements of this section who intends to operate a new TSD facility must comply with WAC 173-303-281 and apply for a final facility permit. The department may, at any time, require the owner or operator of an existing TSD facility to apply for a final facility permit. Such owner or operator will be allowed one hundred eighty days to submit his application; the department may extend the length of the application period if it finds that there are good reasons to do so. The owner or operator of an existing TSD facility may voluntarily apply for a final facility permit at any time. Any person seeking a final facility permit shall complete, sign, and submit an application to the department. An application shall consist of a Part A permit form (which can be obtained from the department), and the contents of Part B as specified in subsection (4) of this section.

(3) Effective regulations. A final facility permit will include all applicable requirements of this chapter which are in effect on the date that the permit is issued by the department. WAC 173-303-840(7) provides a means for reopening permit proceedings at the discretion of the department where new requirements become effective during the permitting process and are of sufficient magnitude to make additional proceedings desirable. Any other changes to the final facility permit will be in accordance with the permit modification requirements of WAC 173-303-830.

(4) Contents of Part B. Part B of a permit application shall consist of the information required in (a) through (i) of this subsection.

(a) General requirements. Part B of the permit application consists of the general information requirements of this subsection, and the specific information requirements in (b) through (h) of this subsection as applicable to the facility. The Part B information requirements presented in (a) through (h) of this subsection, reflect the standards promulgated in WAC 173-303-600. These information requirements are necessary in order for the department to determine compliance with WAC 173-303-600 through 173-303-670. If owners and operators of TSD facilities can demonstrate that the information prescribed in Part B cannot be provided to the extent required, the department may make allowance for submission of such information on a case-by-case basis. Information required in Part B shall be submitted to the department and signed in accordance with requirements in WAC 173-303-810(12). Certain technical data, such as design drawings and specifications, and engineering studies shall be certified by a registered professional engineer. The following information is required for all TSD facilities, except as WAC 173-303-600(3) provides otherwise.

(i) A general description of the facility.

(ii) Chemical, biological, and physical analyses of the dangerous waste to be handled at the facility. At a minimum, these analyses shall contain all the information which must be known to treat, store, or dispose of the wastes properly in accordance with WAC 173-303-600.

(iii) A copy of the waste analysis plan required by WAC 173-303-300(5) and, if applicable WAC 173-303-300(5)(g).

(iv) A description of the security procedures and equipment required by WAC 173-303-310, or a justification demonstrating the reasons for requesting a waiver of this requirement.

(v) A copy of the general inspection schedule required by WAC 173-303-320(2): Include where applicable, as part of the inspection schedule, specific requirements in WAC 173-303-395 (1)(d), 173-303-630(6), 173-303-640 (4)(a)(i) and (6), 173-303-650(4), 173-303-655(4), 173-303-660 (4) and (5), 173-303-665(4), 173-303-670(7), and 173-303-680(3).

(vi) A justification of any request for a waiver(s) of the preparedness and prevention requirements of WAC 173-303-340, or a description of the procedures used to comply with these requirements.

(vii) A copy of the contingency plan required by WAC 173-303-350: Include, where applicable, as part of the contingency plan, specific requirements in WAC 173-303-640(~~(8)~~) (7), 173-303-650(5) and 173-303-660(6).

(viii) A description of procedures, structures, or equipment used at the facility to:

(A) Prevent hazards and contain spills in unloading/loading operations (for example, ramps, berms, pavement, special forklifts);

(B) Prevent run-off from dangerous waste handling areas to other areas of the facility or environment, or to prevent flooding (for example, berms, dikes, trenches);

(C) Prevent contamination of water supplies;

(D) Mitigate effects of equipment failure and power outages; and

(E) Prevent undue exposure of personnel to dangerous waste (for example, protective clothing).

(ix) A description of precautions to prevent accidental ignition or reaction of ignitable, reactive, or incompatible wastes as required to demonstrate compliance with WAC 173-303-395 including documentation demonstrating compliance with WAC 173-303-395 (1)(c).

(x) Traffic pattern, estimated volume (number, types of vehicles) and control (for example, show turns across traffic lanes, and stacking lanes (if appropriate); describe access road surfacing and load bearing capacity; show traffic control signals).

(xi) Seismic risk consideration. The owner/operator of a proposed facility or expansion of an existing facility shall identify the seismic risk zone in which the facility is intended to be located. Where state or local maps are not available, United States Geological Survey Open File Report number 82-1033 may be used to identify seismic risk zones. The owner/operator shall demonstrate that the facility can and will be designed to resist seismic ground motion and that the design is sufficient to withstand the maximum horizontal acceleration of a design earthquake specified in the demonstration.

(xii) An outline of both the introductory and continuing training programs by owners or operators to prepare persons to operate or maintain the TSD facility in a safe manner as required to demonstrate compliance with WAC 173-303-330. A brief description of how training will be designed to meet actual job tasks in accordance with requirements in WAC 173-303-330 (1)(d).

(xiii) A copy of the closure plan and, where applicable, the post-closure plan required by WAC 173-303-610 (3) and (8). Include, where applicable, as part of the plans, specific requirements in WAC 173-303-630(10), 173-303-640(~~(5)~~) (8), 173-303-650(6), 173-303-655(8), 173-303-660(9), 173-303-665(6), 173-303-670(8), and 173-303-680 (2) and (4).

(xiv) For dangerous waste disposal units that have been closed, documentation that notices required under WAC 173-303-610(10) have been filed.

(xv) The most recent closure cost estimate for the facility prepared in accordance with WAC 173-303-620(3) and a copy of the documentation required to demonstrate financial assurance under WAC 173-303-620(4). For a new facility, a copy of the required documentation may be submitted sixty days prior to the initial receipt of dangerous wastes, if that is later than the submission of the Part B.

(xvi) Where applicable, the most recent post-closure cost estimate for the facility prepared in accordance with WAC 173-303-620(5) plus a copy of the documentation required to demonstrate financial assurance under WAC 173-303-620(6). For a new facility, a copy of the required documentation may be submitted sixty days prior to the initial receipt of dangerous wastes, if that is later than the submission of the Part B.

(xvii) Where applicable, a copy of the insurance policy or other documentation which comprises compliance with the requirements of WAC 173-303-620(8). For a new facility, documentation showing the amount of insurance meeting the specification of WAC 173-303-620 (8)(a) and, if applicable, WAC 173-303-620 (8)(b), that the owner or operator plans to have in effect before initial receipt of dangerous waste for treatment, storage, or disposal. A request for a variance in the amount of required coverage, for a new or existing facility, may be submitted as specified in WAC 173-303-620 (8)(c).

(xviii) A topographic map showing a distance of one thousand feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). Contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. For example, contours with an interval of 1.5 meters (5 feet), if relief is greater than 6.1 meters (20 feet), or an interval of 0.6 meters (2 feet), if relief is less than 6.1 meters (20 feet). Owners and operators of TSD facilities located in mountainous areas should use large contour intervals to adequately show topographic profiles of facilities. The map shall clearly show the following:

(A) Map scale and date;

(B) One hundred-year floodplain area;

(C) Surface waters including intermittent streams;

(D) Surrounding land uses (residential, commercial, agricultural, recreational);

(E) A wind rose (i.e., prevailing windspeed and direction);

(F) Orientation of the map (north arrow);

(G) Legal boundaries of the TSD facility site;

(H) Access control (fences, gates);

(I) Injection and withdrawal wells both on-site and off-site;

(J) Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, run-off control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.);

(K) Barriers for drainage or flood control; and

(L) Location of operational units within the TSD facility site, where dangerous waste is (or will be) treated, stored, or disposed (include equipment clean-up areas).

(Note - For large TSD facilities the department will allow the use of other scales on a case-by-case basis.)

(xix) Applicants may be required to submit such information as may be necessary to enable the department to carry out its duties under other state or federal laws as required.

(xx) Additional information requirements. The following additional information regarding protection of ground water is required from owners or operators of dangerous waste (~~surface impoundments, waste piles, land treatment units, and landfills~~) facilities containing a regulated unit except as otherwise provided in WAC 173-303-645 (1)(b):

(A) A summary of the ground water monitoring data obtained during the interim status period under 40 CFR 265.90 through 265.94, where applicable;

(B) Identification of the uppermost aquifer and aquifers hydraulically interconnected beneath the facility property, including ground water flow direction and rate, and the basis for such identification (i.e., the information obtained from hydrogeologic investigations of the facility area);

(C) On the topographic map required under (a)(xviii) of this subsection, a delineation of the waste management area, the property boundary, the proposed "point of compliance" as defined under WAC 173-303-645(6), the proposed location of ground water monitoring wells as required under WAC 173-303-645(8), and, to the extent possible, the information required in (a)(xx)(B) of this subsection;

(D) A description of any plume of contamination that has entered the ground water from a regulated unit at the time that the application was submitted that:

(I) Delineates the extent of the plume on the topographic map required under (a)(xviii) of this subsection;

(II) Identifies the concentration of each constituent throughout the plume or identifies the maximum concentrations of each constituent in the plume. (Constituents are those listed in (~~WAC 173-303-9905~~) Appendix IX of 40 CFR Part 264, and any other constituents not listed there which have caused a managed waste to be regulated under this chapter.);

(E) Detailed plans and an engineering report describing the proposed ground water monitoring program to be implemented to meet the requirements of WAC 173-303-645(8);

(F) If the presence of dangerous constituents has not been detected in the ground water at the time of permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a detection monitoring program which meets the requirements of WAC 173-303-645(9). This submission must address the following items specified under WAC 173-303-645(9):

(I) A proposed list of indicator parameters, waste constituents, or reaction products that can provide a reliable indication of the presence of dangerous constituents in the ground water;

(II) A proposed ground water monitoring system;

(III) Background values for each proposed monitoring parameter or constituent, or procedures to calculate such values; and

(IV) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating ground water monitoring data;

(G) If the presence of dangerous constituents has been detected in the ground water at the point of compliance at the time of permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a compliance monitoring program which meets the requirements of WAC 173-303-645(10). The owner or operator must also submit an engineering feasibility plan for a corrective action program necessary to meet the requirements of WAC 173-303-645(11) except as provided in WAC 173-303-645 (9)(h)(v). Alternatively, the owner or operator can obtain written authorization in advance from the department to submit a proposed permit schedule for development and submittal of such information. To demonstrate compliance with WAC 173-303-645(10), the owner or operator must address the following items:

(I) A description of the wastes previously handled at the facility;

(II) A characterization of the contaminated ground water, including concentrations of dangerous constituents and parameters;

(III) A list of constituents and parameters for which compliance monitoring will be undertaken in accordance with WAC 173-303-645 (8) and (10);

(IV) Proposed concentration limits for each dangerous constituent and parameter, based on the criteria set forth in WAC 173-303-645 (5)(a), including a justification for establishing any alternate concentration limits;

(V) Detailed plans and an engineering report describing the proposed ground water monitoring system, in accordance with the requirements of WAC 173-303-645(8); and

(VI) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating ground water monitoring data; and

(H) If dangerous constituents or parameters have been measured in the ground water which exceed the concentration limits established under WAC 173-303-645(5), Table 1, or if ground water monitoring conducted at the time of permit application under 40 CFR 265.90 through 265.94 at the waste boundary indicates the presence of dangerous constituents from the facility in ground water over background concentrations, the owner or operator must submit sufficient information, supporting data, and analyses to establish a corrective action program which meets the requirements of WAC 173-303-645(11). However, an owner or operator is not required to submit information to establish a corrective action program if he demonstrates to the department that alternate concentration limits will protect human health and the environment after considering the criteria listed in WAC 173-303-645(5). An owner or operator who is not required to establish a corrective action program for this reason must instead submit sufficient information to establish a compliance monitoring program which meets the requirements of WAC 173-303-645 (10) and (a)(xx)(F) of this subsection. To demonstrate compliance with WAC 173-303-645(11), the owner or operator must address, at a minimum, the following items:

(I) A characterization of the contaminated ground water, including concentrations of dangerous constituents and parameters;

(II) The concentration limit for each dangerous constituent and parameter found in the ground water as set forth in WAC 173-303-645(5);

(III) Detailed plans and an engineering report describing the corrective action to be taken;

(IV) A description of how the ground water monitoring program will demonstrate the adequacy of the corrective action; and

(V) The permit may contain a schedule for submittal of the information required in (a)(xx)(H)(III) and (IV) of this subsection, provided the owner or operator obtains written authorization from the department prior to submittal of the complete permit application.

(xxi) Contingent ground water protection program. The following actions are required for owners or operators of proposed land-based facilities and may be required for owners/operators of existing land-based facilities, except as provided in WAC 173-303-645 (1)(b).

(A) Contingent ground water protection program. The owner or operator shall develop a contingent ground water protection program. The purpose of this program will be to prevent the migration of dangerous waste or dangerous waste constituents from waste management units to the nearest hydraulically downgradient receptor at any time during the life of the facility. For the purposes of this subsection, the downgradient receptor shall be the facility property line, perennial surface water or domestic well, whichever is nearest to the dangerous waste management unit. The contingent ground water protection program shall at a minimum:

(I) Define the local and regional hydrogeologic characteristics. The contingent ground water protection program shall be based on a sufficient understanding of site geology, hydrology, and other factors to allow evaluation of its adequacy by the department. Site characterization shall be performed in sufficient detail to provide, at a minimum, the following information: Site geostratigraphy; site hydrostratigraphy; identification of aquifers, aquitards, and aquicludes; flow models for each stratum (i.e., porous media or fracture flow); the distribution of vertical and horizontal hydraulic conductivity; effective porosity; horizontal and vertical hydraulic gradients; ground water travel time to receptors; and heterogeneity for each stratigraphic unit. Site interpretative models shall include ranges of tested values: The provisions of WAC 173-303-806 (4)(a)(xx) and 173-303-645, shall be used as guidance in the development of the contingent ground water protection program.

(II) Identify the range of potential release scenarios that could occur during facility operation and the postclosure care period. The scenarios shall incorporate the intended design(s) of the dangerous waste management unit(s), wastes to be placed in the dangerous waste management unit(s), waste and leachate chemistry, waste, and soil and rock geochemical interactions, and the results of site characterization pursuant to WAC 173-303-806 (4)(a)(xx) and (xxi);

(III) Include specific physical action to be taken if dangerous waste or dangerous waste constituents are detected in one or more of the monitoring wells. The physical actions shall be based upon engineering feasibility studies describing remedial actions established from site specific conditions and waste features. Such actions may include installation of a pump and treat system between the monitor-

ing well and the receptor or installation of a section of slurry wall to decrease ground water travel times. The description of the systems shall also provide how the remediation system will achieve cleanup, its efficiency, and the timeframes involved;

(IV) Incorporate the design, construction, and sampling methods outlined in WAC 173-303-645 (8)(c), (d), (e), (f), and (g);

(V) Demonstrate to the satisfaction of the department that the owner/operator of the dangerous waste management facility has the financial capability to implement the proposed ground water protection plan; and

(VI) Include reporting procedures to the department.

(B) The response actions identified in WAC 173-303-806 (4)(a)(xxi)(A)(III) shall be activated if the presence of dangerous waste or dangerous waste constituents have been detected at the point of compliance in accordance with WAC 173-303-645 (9)(g), and shall continue until the concentration of dangerous waste or dangerous waste constituents under WAC 173-303-645(4) are reduced to levels below their respective concentration limits specified in WAC 173-303-645(5).

(C) If the owner/operator does not demonstrate that the ground water protection program will prevent the migration of dangerous waste or its constituents to the nearest receptor, the department will require corrections to be made in the protection program, increase setbacks from the nearest receptor, or deny the permit.

(xxii) Additional requirements for incineration facilities. The following actions regarding the protection of human health and the environment must be taken by owners/operators of proposed hazardous waste incineration facilities and may be required for owners or operators of existing incineration facilities.

(A) Ambient monitoring program. The owner/operator shall be required to develop an ambient monitoring program. The purpose of this ambient monitoring program will be to: Gather baseline environmental information characterizing on-site and off-site environmental conditions prior to facility operation; and, to identify and measure changes in the environment which may be linked to the construction and operation of the facility. The ambient monitoring program shall, at a minimum:

(I) Include a characterization of facility emission sources and pathways of contaminant transport.

(II) Characterize local and regional ecosystems, including agricultural, and their sensitivity to the potential contaminants from the facility.

(III) Incorporate the findings of the environmental impact statement's health risk assessment and/or other assessments specific to the proposal or available to the scientific community regarding emissions from dangerous waste management facilities and their potential human health and environmental effects.

(IV) Identify sensitive indicator plants and animals for biomonitoring, identify specific chemical constituents of concern, sampling locations, sampling frequency, sampling and analytical methods, chain of custody procedures, quality assurance/quality control procedures, reporting times, recordkeeping procedures, and data evaluation procedures.

(B) Environmental review procedures. The owner/operator shall establish procedures to allow for public review

of facility operation and all monitoring data required by the facility's permit. In developing this process, the owner/operator shall, at a minimum:

(I) Coordinate this effort with the public and interested local organizations;

(II) Identify the informational needs of the community and develop a public information process which meets these needs; and

(III) Develop procedures allowing full access by the public to all monitoring data required by the permit.

(C) Impact mitigation plan. Prior to the department issuing a permit, the owner/operator shall submit an impact mitigation plan which demonstrates to the satisfaction of the department that the owner/operator will mitigate all probable significant adverse impacts, including economic, due to facility location and operations. The owner/operator shall use as a basis for identifying probable significant adverse economic impacts those probable economic impacts identified during a public review process, such as the environmental impact statement scoping process, if applicable.

The plan must include, but is not limited to, a description of what the owner/operator will do to reduce or prevent any probable significant impacts before they occur, to mitigate such impacts should they occur, and to ensure the owner/operator has and will have the financial capability to implement such preventative and mitigative measures. Mitigation measures may include, as an element, financial compensation to adversely affected parties.

This plan may be submitted with environmental reports the department requires for compliance with the State Environmental Policy Act, with the written citizen proponent negotiation report and agreements, or with the Part B permit application. If the plan does not demonstrate that the owner/operator is capable of adequately mitigating the identified probable significant adverse economic impacts, the department will require modification of the plan or of the proposed facility location, or will deny the permit application. The department must be satisfied with the plan prior to the issuance of the permit.

(xxiii) Information requirements for solid waste management units.

(A) The following information is required for each solid waste management unit:

(I) The location of the unit on the topographic map required under (a)(xviii) of this subsection.

(II) Designation of type of unit.

(III) General dimensions and structural description (supply any available drawings).

(IV) Time frame over which the unit was operated.

(V) Specification of all wastes that have been managed in the unit, to the extent available.

(B) The owner/operator of any facility containing one or more solid waste management units must submit all available information pertaining to any release of dangerous wastes or dangerous constituents from such unit or units.

(C) The owner/operator must conduct and provide the results of sampling and analysis of ground water, landsurface, and subsurface strata, surface water, or air, which may include the installation of wells, where the department determines it is necessary to complete a RCRA Facility Assessment that will determine if a more complete investigation is necessary.

WAC 173-303-806 (4)(a)(xxiv):

(xxiv) Information requirements for known releases.

(A) The following information is required for any and all known releases of dangerous waste and dangerous constituents (as defined by WAC 173-303-646 (2)(c)) at the facility.

(I) The location of the release on the topographic map required under (a)(xviii) of this subsection.

(II) General dimensions of the release and any relevant structural description. For example, if the release is from a storage tank, provide a structural description of the tank. Supply any available drawings.

(III) Time frame over which the release occurred.

(IV) Specification of all dangerous waste or dangerous constituents (as defined by WAC 173-303-646 (2)(c)) present in the release, to the extent available.

(b) Specific Part B information requirements for containers. Except as otherwise provided in WAC 173-303-600(3), owners or operators of facilities that store containers of dangerous waste must provide the following additional information:

(i) A description of the containment system to demonstrate compliance with WAC 173-303-630(7). Show at least the following:

(A) Basic design parameters, dimensions, and materials of construction including allowance for a twenty-five-year, twenty-four-hour storm;

(B) How the design promotes positive drainage control or how containers are kept from contact with standing liquids in the containment system;

(C) Capacity of the containment system relative to the volume of the largest container to be stored;

(D) Provisions for preventing or managing run-on;

(E) How accumulated liquids can be analyzed and removed to prevent overflow; and

(F) A description of the building or other protective covering for EHW containers;

(ii) For storage areas that store containers holding wastes that do not contain free liquids, a demonstration of compliance with WAC 173-303-630 (7)(c), including:

(A) Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and

(B) A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids;

(iii) A description of the procedures for labeling containers;

(iv) Sketches, drawings, or data demonstrating compliance with WAC 173-303-630(8) (location of buffer zone and containers holding ignitable or reactive wastes) and WAC 173-303-630 (9)(c) (location of incompatible wastes), where applicable; and

(v) Where incompatible wastes are stored or otherwise managed in containers, a description of the procedures used to ensure compliance with WAC 173-303-630 (9)(a) and (b), and 173-303-395 (1)(b) and (c).

(c) Specific Part B information requirements for tanks. Except as otherwise provided in WAC 173-303-600(3), owners and operators of facilities that use tanks to store or treat dangerous waste must provide the following information:

(i) A written assessment that is reviewed and certified by an independent, qualified, registered professional engineer as to the structural integrity and suitability for handling dangerous waste of each tank system, as required under WAC 173-303-640 (2) and (3);

(ii) Dimensions and capacity of each tank;

(iii) Description of feed systems, safety cutoff, bypass systems, and pressure controls (e.g., vents);

(iv) A diagram of piping, instrumentation, and process flow for each tank system;

(v) A description of materials and equipment used to provide external corrosion protection, as required under WAC 173-303-640 (3)(a)(iii)(B);

(vi) For new tank systems, a detailed description of how the tank system(s) will be installed in compliance with WAC 173-303-640 (3)(b), (c), (d), and (e);

(vii) Detailed plans and a description of how the secondary containment system for each tank system is or will be designed, constructed, and operated to meet the requirements of WAC 173-303-640 (4)(a), (b), (c), (d), (e), and (f);

(viii) For tank systems for which a variance from the requirements of WAC 173-303-640(4) is sought (as provided by WAC 173-303-640 (4)(g)):

(A) Detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any dangerous waste or dangerous constituents into the ground water or surface water during the life of the facility; or

(B) A detailed assessment of the substantial present or potential hazards posed to human health or the environment should a release enter the environment.

(ix) Description of controls and practices to prevent spills and overflows, as required under WAC 173-303-640 (5)(b);

(x) For tank systems in which ignitable, reactive, or incompatible wastes are to be stored or treated, a description of how operating procedures and tank system and facility design will achieve compliance with the requirements of WAC 173-303-640 (9) and (10);

(xi) A description of the marking and/or labeling of tanks; and

(xii) Tank design to prevent escape of vapors and emissions of acutely or chronically toxic (upon inhalation) EHW.

(d) Specific Part B information requirements for surface impoundments. Except as otherwise provided in WAC 173-303-600(3), owners and operators of facilities that store, treat, or dispose of dangerous waste in surface impoundments must provide the following additional information:

(i) A list of the dangerous wastes placed or to be placed in each surface impoundment;

(ii) Detailed plans and an engineering report describing how the surface impoundment is or will be designed, constructed, operated and maintained to meet the requirements of WAC 173-303-650(2). This submission must address the following items as specified in WAC 173-303-650(2):

(A) The liner system (except for an existing portion of a surface impoundment), including the certification required by WAC 173-303-650 (2)(a)(i)(D) for EHW management.

If an exemption from the requirement for a liner is sought as provided by WAC 173-303-650 (2)(b), submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any dangerous constituents into the ground water or surface water at any future time;

(B) Prevention of overtopping; and

(C) Structural integrity of dikes;

(iii) If any exemption from WAC 173-303-645 is sought, as provided by WAC 173-303-650(3), detailed plans and an engineering report explaining the location of the saturated zone in relation to the surface impoundment, and the design of a double-liner system that incorporates a leak detection system between the liners;

(iv) A description of how each surface impoundment, including the liner and cover systems and appurtenances for control of overtopping, will be inspected in order to meet the requirements of WAC 173-303-650 (4)(a) and (b). This information should be included in the inspection plan submitted under (a)(v) of this subsection;

(v) A certification by a qualified engineer which attests to the structural integrity of each dike, as required under WAC 173-303-650 (4)(c). For new units, the owner or operator must submit a statement by a qualified engineer that he will provide such a certification upon completion of construction in accordance with the plans and specifications;

(vi) A description of the procedure to be used for removing a surface impoundment from service, as required under WAC 173-303-650 (5)(b) and (c). This information should be included in the contingency plan submitted under (a)(vii) of this subsection;

(vii) A description of how dangerous waste residues and contaminated materials will be removed from the unit at closure, as required under WAC 173-303-650 (6)(a)(i). For any wastes not to be removed from the unit upon closure, the owner or operator must submit detailed plans and an engineering report describing how WAC 173-303-650 (6)(a)(ii) and (b) will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under (a)(xiii) of this subsection;

(viii) If ignitable or reactive wastes are to be placed in a surface impoundment, an explanation of how WAC 173-303-650(7) will be complied with;

(ix) If incompatible wastes, or incompatible wastes and materials will be placed in a surface impoundment, an explanation of how WAC 173-303-650(8) will be complied with; and

(x) Where applicable, a waste management plan for Dangerous Waste Nos. F020, F021, F022, F023, F026, or F027 describing how the surface impoundment is or will be designed to meet the requirements of WAC 173-303-650(9).

(e) Specific Part B information requirements for waste piles. Except as otherwise provided in WAC 173-303-600(3), owners and operators of facilities that store or treat dangerous waste in waste piles must provide the following additional information:

(i) A list of dangerous wastes placed or to be placed in each waste pile;

(ii) If an exemption is sought to WAC 173-303-660(2), and 173-303-645 as provided by WAC 173-303-660 (1)(c),

an explanation of how the standards of WAC 173-303-660 (1)(c) will be complied with;

(iii) Detailed plans and an engineering report describing how the pile is or will be designed, constructed, operated, and maintained to meet the requirements of WAC 173-303-660(2). This submission must address the following items as specified in WAC 173-303-660(2):

(A) The liner system (except for an existing portion of a pile), including the licensed engineer's certification when required by WAC 173-303-660 (2)(c). If an exemption from the requirement for a liner is sought, as provided by WAC 173-303-660 (2)(d), the owner or operator must submit detailed plans and engineering and hydrogeologic reports, as applicable, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;

(B) Control of run-on;

(C) Control of run-off;

(D) Management of collection and holding units associated with run-on and run-off control systems; and

(E) Control of wind dispersal of particulate matter, where applicable;

(iv) If an exemption from WAC 173-303-645 is sought as provided by WAC 173-303-660 (3) or (4), submit detailed plans and an engineering report describing how the requirements of WAC 173-303-660 (3)(a) or (4)(a) will be complied with;

(v) A description of how each waste pile, including the liner and appurtenances for control of run-on and run-off, will be inspected in order to meet the requirements of WAC 173-303-660(5). This information should be included in the inspection plan submitted under (a)(v) of this subsection. If an exemption is sought to WAC 173-303-645 pursuant to WAC 173-303-660(4), describe in the inspection plan how the inspection requirements of WAC 173-303-660 (4)(a)(iii) will be complied with;

(vi) If treatment is carried out on or in the pile, details of the process and equipment used, and the nature and quality of the residuals;

(vii) If ignitable or reactive wastes are to be placed in a waste pile, an explanation of how the requirements of WAC 173-303-660(7) will be complied with;

(viii) If incompatible wastes, or incompatible wastes and materials will be placed in a waste pile, an explanation of how WAC 173-303-660(8) will be complied with;

(ix) A description of how dangerous waste, waste residues and contaminated materials will be removed from the waste pile at closure, as required under WAC 173-303-660 (9)(a). For any waste not to be removed from the waste pile upon closure, the owner or operator must submit detailed plans and an engineering report describing how WAC 173-303-665 (6)(a) and (b) will be complied with. This information should be included in the closure plan and, where applicable, the post-closure plan submitted under (a)(xiii) of this subsection;

(x) Where applicable, a waste management plan for Dangerous Waste Nos. F020, F021, F022, F023, F026, or F027 describing how a waste pile that is not enclosed (as defined in WAC 173-303-660 (1)(c)) is or will be designed, constructed, operated, and maintained to meet the requirements of WAC 173-303-660(10).

(f) Specific Part B information requirements for incinerators. Except as WAC 173-303-670(1) provides otherwise, owners and operators of facilities that incinerate dangerous waste must fulfill the informational requirements of (f) of this subsection.

(i) When seeking an exemption under WAC 173-303-670 (1)(b) (ignitable or reactive wastes only):

(A) Documentation that the waste is listed as a dangerous waste in WAC 173-303-080, solely because it is ignitable; or

(B) Documentation that the waste is listed as a dangerous waste in WAC 173-303-080, solely because it is reactive for characteristics other than those listed in WAC 173-303-090 (7)(a)(iv) and (v), and will not be burned when other dangerous wastes are present in the combustion zone; or

(C) Documentation that the waste is a dangerous waste solely because it possesses the characteristic of ignitability, as determined by the tests for characteristics of dangerous waste under WAC 173-303-090; or

(D) Documentation that the waste is a dangerous waste solely because it possesses the reactivity characteristics listed in WAC 173-303-090 (7)(a)(i), (ii), (iii), (vi), (vii), and (viii), and that it will not be burned when other dangerous wastes are present in the combustion zone.

(ii) Submit a trial burn plan or the results of a trial burn, including all required determinations, in accordance with WAC 173-303-807.

(iii) In lieu of a trial burn, the applicant may submit the following information;

(A) An analysis of each waste or mixture of wastes to be burned including:

(I) Heating value of the waste in the form and composition in which it will be burned;

(II) Viscosity (if applicable), or description of physical form of the waste, and specific gravity of the waste;

(III) An identification of any dangerous organic constituents listed in WAC 173-303-9905 or, if not listed, which cause the waste(s) to be regulated, which are present in the waste to be burned, except that the applicant need not analyze for constituents which would reasonably not be expected to be found in the waste. The constituents excluded from analysis must be identified and the basis for their exclusion stated. The waste analysis must rely on analytical techniques specified in WAC 173-303-110(3), or their equivalent;

(IV) An approximate quantification of the dangerous constituents identified in the waste, within the precision produced by the analytical methods specified in WAC 173-303-110(3); and

(V) A quantification of those dangerous constituents in the waste which may be designated as principal organic dangerous constituents (PODC's) based on data submitted from other trial or operational burns which demonstrate compliance with the performance standards in WAC 173-303-670(4);

(B) A detailed engineering description of the incinerator, including:

(I) Manufacturer's name and model number of incinerator;

(II) Type of incinerator;

(III) Linear dimension of incinerator unit including cross sectional area of combustion chamber;

(IV) Description of auxiliary fuel system (type/feed);
 (V) Capacity of prime mover;
 (VI) Description of automatic waste feed cutoff system(s);

(VII) Stack gas monitoring and pollution control monitoring system;

(VIII) Nozzle and burner design;

(IX) Construction materials; and

(X) Location and description of temperature, pressure, and flow indicating devices and control devices;

(C) A description and analysis of the waste to be burned compared with the waste for which data from operational or trial burns are provided to support the contention that a trial burn is not needed. The data should include those items listed in (f)(iii)(A) of this subsection. This analysis should specify the principal organic dangerous constituents (PODC's) which the applicant has identified in the waste for which a permit is sought, and any differences from the PODC's in the waste for which burn data are provided;

(D) The design and operating conditions of the incinerator unit to be used, compared with that for which comparative burn data are available;

(E) A description of the results submitted from any previously conducted trial burn(s) including:

(I) Sampling and analysis techniques used to calculate performance standards in WAC 173-303-670(4); and

(II) Methods and results of monitoring temperatures, waste feed rates, carbon monoxide, and an appropriate indicator of combustion gas velocity (including a statement concerning the precision and accuracy of this measurement);

(F) The expected incinerator operation information to demonstrate compliance with WAC 173-303-670 (4) and (6), including:

(I) Expected carbon monoxide (CO) level in the stack exhaust gas;

(II) Waste feed rate;

(III) Combustion zone temperature;

(IV) Indication of combustion gas velocity;

(V) Expected stack gas volume, flow rate, and temperature;

(VI) Computed residence time for waste in the combustion zone;

(VII) Expected hydrochloric acid removal efficiency;

(VIII) Expected fugitive emissions and their control procedures; and

(IX) Proposed waste feed cutoff limits based on the identified significant operating parameters;

(G) Such supplemental information as the department finds necessary to achieve the purposes of this subsection;

(H) Waste analysis data, including that submitted in (f)(iii)(A) of this subsection, sufficient to allow the department to specify as permit principal organic dangerous constituents (permit PODC's) those constituents for which destruction and removal efficiencies will be required; and

(I) Test protocols and sampling and analytical data to demonstrate the designation status under WAC 173-303-070 of:

(I) Incinerator ash residues, if any; and

(II) Residues from the air pollution control devices.

(iv) The department shall approve a permit application without a trial burn if the department finds that:

(A) The wastes are sufficiently similar; and

(B) The incinerator units are sufficiently similar, and the data from other trial burns are adequate to specify (under WAC 173-303-670(6)) operating conditions that will ensure that the performance standards in WAC 173-303-670(4) will be met by the incinerator.

(g) Specific Part B information requirements for land treatment facilities. Except as otherwise provided in WAC 173-303-600(3), owners and operators of facilities that use land treatment to dispose of dangerous waste must provide the following additional information:

(i) A description of plans to conduct a treatment demonstration as required under WAC 173-303-655(3). The description must include the following information:

(A) The wastes for which the demonstration will be made and the potential dangerous constituents in the waste;

(B) The data sources to be used to make the demonstration (e.g., literature, laboratory data, field data, or operating data);

(C) Any specific laboratory or field test that will be conducted, including:

(I) The type of test (e.g., column leaching, degradation);

(II) Materials and methods, including analytical procedures;

(III) Expected time for completion; and

(IV) Characteristics of the unit that will be simulated in the demonstration, including treatment zone characteristics, climatic conditions, and operating practices;

(ii) A description of a land treatment program, as required under WAC 173-303-655(2). This information must be submitted with the plans for the treatment demonstration, and updated following the treatment demonstration. The land treatment program must address the following items:

(A) The wastes to be land treated;

(B) Design measures and operating practices necessary to maximize treatment in accordance with WAC 173-303-655 (4)(a) including:

(I) Waste application method and rate;

(II) Measures to control soil pH;

(III) Enhancement of microbial or chemical reactions; and

(IV) Control of moisture content;

(C) Provisions for unsaturated zone monitoring, including:

(I) Sampling equipment, procedures, and frequency;

(II) Procedures for selecting sampling locations;

(III) Analytical procedures;

(IV) Chain of custody control;

(V) Procedures for establishing background values;

(VI) Statistical methods for interpreting results; and

(VII) The justification for any dangerous constituents recommended for selection as principal dangerous constituents, in accordance with the criteria for such selection in WAC 173-303-655 (6)(a);

(D) A list of dangerous constituents reasonably expected to be in, or derived from, the wastes to be land treated based on waste analysis performed pursuant to WAC 173-303-300;

(E) The proposed dimensions of the treatment zone;

(iii) A description of how the unit is or will be designed, constructed, operated, and maintained in order to meet the requirements of WAC 173-303-655(4). This submission must address the following items:

- (A) Control of run-on;
 - (B) Collection and control of run-off;
 - (C) Minimization of run-off of dangerous constituents from the treatment zone;
 - (D) Management of collection and holding facilities associated with run-on and run-off control systems;
 - (E) Periodic inspection of the unit. This information should be included in the inspection plan submitted under (a)(v) of this subsection; and
 - (F) Control of wind dispersal of particulate matter, if applicable;
- (iv) If food-chain crops are to be grown in or on the treatment zone of the land treatment unit, a description of how the demonstration required under WAC 173-303-655(5) will be conducted including:
 - (A) Characteristics of the food-chain crop for which the demonstration will be made;
 - (B) Characteristics of the waste, treatment zone, and waste application method and rate to be used in the demonstration;
 - (C) Procedures for crop growth, sample collection, sample analysis, and data evaluation;
 - (D) Characteristics of the comparison crop including the location and conditions under which it was or will be grown; and
 - (E) If cadmium is present in the land treated waste, a description of how the requirements of WAC 173-303-655(5)(b) will be complied with;
 - (v) A description of the vegetative cover to be applied to closed portions of the facility, and a plan for maintaining such cover during the post-closure care period, as required under WAC 173-303-655(8)(a)(viii) and (c)(ii). This information should be included in the closure plan and, where applicable, the post-closure care plan submitted under (a)(xiii) of this subsection;
 - (vi) If ignitable or reactive wastes will be placed in or on the treatment zone, an explanation of how the requirements of WAC 173-303-655(9) will be complied with; and
 - (vii) If incompatible wastes, or incompatible wastes and materials, will be placed in or on the same treatment zone, an explanation of how WAC 173-303-655(10) will be complied with.
 - (viii) Where applicable, a waste management plan for Dangerous Waste Nos. F020, F021, F022, F023, F026, or F027 describing how a land treatment facility is or will be designed, constructed, operated, and maintained to meet the requirements of WAC 173-303-655(12).
 - (h) Specific Part B information requirements for landfills. Except as otherwise provided in WAC 173-303-600(3), owners and operators of facilities that dispose of dangerous waste in landfills must provide the following additional information:
 - (i) A list of the dangerous wastes placed or to be placed in each landfill or landfill cell;
 - (ii) Detailed plans and an engineering report describing how the landfill is or will be designed, constructed, operated and maintained to comply with the requirements of WAC 173-303-665(2). This submission must address the following items as specified in WAC 173-303-665(2):
 - (A) The liner system and leachate collection and removal system (except for an existing portion of a landfill), including the licensed engineer's certification required by

WAC 173-303-665(2)(a)(i). If an exemption from the requirements for a liner and a leachate collection and removal system is sought, as provided by WAC 173-303-665(2)(b), submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any dangerous constituent into the ground water or surface water at any future time;

- (B) Control of run-on;
 - (C) Control of run-off;
 - (D) Management of collection and holding facilities associated with run-on and run-off control systems; and
 - (E) Control of wind dispersal of particulate matter, where applicable;
- (iii) If an exemption from WAC 173-303-645 is sought, as provided by WAC 173-303-665(3), the owner or operator must submit detailed plans and an engineering report explaining the location of the saturated zone in relation to the landfill, the design of a double-liner system that incorporates a leak detection system between the liners, and a leachate collection and removal system above the liners;
 - (iv) A description of how each landfill, including the liner and cover systems, will be inspected in order to meet the requirements of WAC 173-303-665(4). This information should be included in the inspection plan submitted under (a)(v) of this subsection;
 - (v) Detailed plans and an engineering report describing the final cover which will be applied to each landfill or landfill cell at closure in accordance with WAC 173-303-665(6)(a), and a description of how each landfill will be maintained and monitored after closure in accordance with WAC 173-303-665(6)(b) and (c). This information should be included in the closure and post-closure plans submitted under (a)(xiii) of this subsection;
 - (vi) If incompatible wastes, or incompatible wastes and materials will be landfilled, an explanation of how WAC 173-303-665(7) will be complied with;
 - (vii) A description of how each landfill will be designed and operated in order to comply with WAC 173-303-140.
 - (i) Specific Part B information requirements for miscellaneous units. Except as otherwise provided in WAC 173-303-680(1), owners and operators of facilities that treat, store, or dispose of dangerous waste in miscellaneous units must provide the following additional information:
 - (i) A detailed description of the unit being used or proposed for use, including the following:
 - (A) Physical characteristics, materials of construction, and dimensions of the unit;
 - (B) Detailed plans and engineering reports describing how the unit will be located, designed, constructed, operated, maintained, monitored, inspected, and closed to comply with the requirements of WAC 173-303-680(2) and (3); and
 - (C) For disposal units, a detailed description of the plans to comply with the postclosure requirements of WAC 173-303-680(4).
 - (ii) Detailed hydrologic, geologic, and meteorologic assessments and land-use maps for the region surrounding the site that address and ensure compliance of the unit with each factor in the environmental performance standards of WAC 173-303-680(2). If the applicant can demonstrate that he does not violate the environmental performance standards

of WAC 173-303-680(2) and the department agrees with such demonstration, preliminary hydrologic, geologic, and meteorologic assessments will suffice.

(iii) Information on the potential pathways of exposure of humans or environmental receptors to dangerous waste or dangerous constituents and on the potential magnitude and nature of such exposures.

(iv) For any treatment unit, a report on a demonstration of the effectiveness of the treatment based on laboratory or field data.

(v) Any additional information determined by the department to be necessary for evaluation of compliance of the unit with the environmental performance standards of WAC 173-303-680(2).

(5) Construction. A person may begin physical construction of a new facility, or of new portions of an existing facility if the new portions would amount to reconstruction under interim status (WAC 173-303-805(7)), only after complying with WAC 173-303-281, submitting Part A and Part B of the permit application and receiving a final facility permit. All permit applications must be submitted at least one hundred eighty days before physical construction is expected to begin.

(6) Reapplications. Any dangerous waste facility with an effective final facility permit shall submit a new application one hundred eighty days prior to the expiration date of the effective permit, unless the department grants a later date provided that such date will never be later than the expiration date of the effective permit.

(7) Continuation of expiring permits.

(a) When the owner/operator submits a timely application for a final facility permit and the application is determined by the department to be complete pursuant to subsection (8) of this section, the facility is allowed to continue operating under the expiring or expired permit until the effective date of the new permit.

(b) When the facility is not in compliance with the conditions of the expiring or expired permit, the department may choose to do any of the following:

(i) Initiate enforcement action based upon the permit which has been continued;

(ii) Issue a notice of intent to deny the new permit. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;

(iii) Issue a new permit with appropriate conditions; and/or

(iv) Take other actions authorized by this chapter.

(8) Completeness. The department shall not issue a final facility permit before receiving a complete application, except for permits by rule or emergency permits. An application for a permit is complete when the application form and any supplemental information has been submitted to the department's satisfaction. The completeness of any application for a permit shall be judged independently of the status of any other permit application or permit for the same facility or activity. The department may deny a permit for the active life of a dangerous waste management facility or unit before receiving a complete application for a permit.

(9) Recordkeeping. Applicants shall keep records of all data used to complete the permit applications, and any

supplemental information submitted to the department for a period of at least three years from the date the application is signed.

(10) General permit conditions. All final facility permits shall contain general permit conditions described in WAC 173-303-810.

(11) Permit duration.

(a) Final facility permits shall be effective for a fixed term not to exceed ten years.

(b) The department may issue any final facility permit for a duration that is less than the full allowable term.

(c) The term of a final facility permit shall not be extended beyond ten years, unless otherwise authorized under subsection (7) of this section.

(d) Each permit for a land disposal facility may be reviewed by the department five years after the date of permit issuance or reissuance and shall be modified as necessary, as provided in WAC 173-303-830.

(12) Grounds for termination. The following are causes for terminating a final facility permit during its term:

(a) Noncompliance by the permittee with any condition of the permit;

(b) The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time; or

(c) A determination that the permitted activity endangers public health or the environment and the hazard can only be controlled by permit modification or termination.

(13) Grounds for denial. A permit application shall be denied if it is determined that the proposed location and/or activity endangers public health and the environment as demonstrated by the permit applicant's failure to satisfy the performance standards of WAC 173-303-283.

(14) Permit changes. All final facility permits shall be subject to the requirements of permit changes, WAC 173-303-830.

(15) Procedures for decision making. Issuance of final facility permits will be subject to the procedures for decision making described in WAC 173-303-840.

(16) Other requirements for final special waste and recycling facility permits. In lieu of issuing a final special waste or recycling facility permit, the department may, after providing opportunity for public comment in accordance with WAC 173-303-840, defer to a permit already issued under other statutory authority administered by the department (such as the State Water Pollution Control Act, chapter 90.48 RCW, the State Clean Air Act, chapter 70.94 RCW, etc.) which incorporates the requirements of this section, and WAC 173-303-500 through 173-303-525 for recycling facilities or WAC 173-303-550 through 173-303-560 for special waste facilities.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-807 Trial burns for dangerous waste incinerator final facility permits. (1) Purpose and applicability. For purposes of determining operational readiness

and establishing conditions in final facility permits for dangerous waste incinerators, the department may approve trial burns. Trial burns shall not exceed seven hundred twenty hours operating time, except that the department may extend the duration of this operational period once, up to seven hundred twenty additional hours, at the request of the owner/operator of the incinerator when good cause is shown. The permit may be modified to reflect the extension according to WAC 173-303-830(4). The procedures for requesting and approving trial burns are described in:

(a) Subsection (10) of this section for existing incinerators with interim status permits; and

(b) Subsection (11) of this section for new incinerators and for incinerators with final facility permits in which the owner/operator wishes to burn new wastes not currently included in the permit.

(2) Trial burn plan. The trial burn must be conducted in accordance with a trial burn plan prepared by the applicant and approved by the department. The trial burn plan will then become a condition of the permit and will include the following information:

(a) An analysis of each waste or mixture of waste to be burned which includes:

(i) Heating value of the waste in the form and composition in which it will be burned;

(ii) Viscosity (if applicable), or description of physical form of the waste, and specific gravity of the waste;

(iii) An analysis identifying any dangerous organic constituents listed in WAC 173-303-9905, and any other dangerous constituents which, although not listed, caused the waste to be regulated as a dangerous waste, which are reasonably expected to be present in the waste to be burned. The constituents excluded from analysis must be identified and the basis for their exclusion stated. The waste analysis must rely on analytical techniques specified or referenced in WAC 173-303-110, or their equivalent;

(iv) An approximate quantification of the dangerous constituents identified in the waste, within the precision produced by the analytical methods specified or referenced in WAC 173-303-110; and

(v) A quantification of those dangerous constituents in the waste which may be designated as principal organic dangerous constituents (PODC) based on data submitted from other trial or operational burns which demonstrate compliance with the performance standard in WAC 173-303-670(4);

(b) A detailed engineering description of the incinerator for which the trial burn permit is sought including:

(i) Manufacturer's name and model number of incinerator (if available);

(ii) Type of incinerator;

(iii) Linear dimensions of the incinerator unit including the cross sectional area of the combustion chamber;

(iv) Description of the auxiliary fuel system (type/feed);

(v) Capacity of the prime air mover;

(vi) Description of automatic waste feed cutoff system(s);

(vii) Stack gas monitoring and pollution control equipment;

(viii) Nozzle and burner design;

(ix) Construction materials; and

(x) Location and description of temperature, pressure, and flow indicating and control devices;

(c) A detailed description of sampling and monitoring procedures, including sampling and monitoring locations in the system, the equipment to be used, sampling and monitoring frequency, and planned analytical procedures for sample analysis;

(d) A detailed test schedule for each waste for which the trial burn is planned including date(s), duration, quantity of waste to be burned, and other factors relevant to the department's decision under subsection (5) of this section;

(e) A detailed test protocol, including, for each waste identified, the ranges of temperature, waste feed rate, air feed rate, use of auxiliary fuel, and other relevant parameters that will be varied to affect the destruction and removal efficiency of the incinerator;

(f) A description of, and planned operating conditions for, any emission control equipment which will be used;

(g) Procedures for rapidly stopping waste feed, shutting down the incinerator, and controlling emissions in the event of an equipment malfunction;

(h) A detailed test protocol to sample and analyze the following for designation under WAC 173-303-070:

(i) Any incinerator ash residue collected in the incinerator; and

(ii) Any residues collected in the air pollution control devices; and

(i) Such other information as the department reasonably finds necessary to determine whether to approve the trial burn plan in light of the purposes of this section.

(3) Additional information required. The department, in reviewing the trial burn plan, shall evaluate the adequacy of the information provided and may require the applicant to supplement this information, if necessary, to achieve the purposes of this section.

(4) Trial PODCs. Based on the waste analysis data in the trial burn plan, the department will specify as trial principal organic dangerous constituents (trial PODCs) those constituents for which destruction and removal efficiencies must be calculated during the trial burn. These trial PODCs will be specified by the department based on its estimate of the difficulty of incineration of the constituents identified in the waste analysis, the concentration or mass in the waste feed, and the dangerous waste constituent or constituents identified in WAC 173-303-9905, or identified as causing the waste to be regulated as a dangerous waste.

(5) Approval of the plan. The department shall approve a trial burn plan if it finds that:

(a) The trial burn is likely to determine whether the incinerator performance standard required by WAC 173-303-670(4) can be met;

(b) The trial burn itself will not present an imminent hazard to public health or the environment;

(c) The trial burn will help the department to determine operating requirements to be specified under WAC 173-303-670(6); and

(d) The information sought in (a), (b), and (c) of this subsection cannot reasonably be developed through other means.

(6) Trial burns. During each approved trial burn (or as soon after the burn as is practicable), the applicant must make the following determinations:

(a) A quantitative analysis of the trial PODCs in the waste feed to the incinerator;

(b) A quantitative analysis of the exhaust gas for the concentration and mass emissions of the trial PODCs, O₂, hydrogen chloride (HCl), carbon monoxide (CO) and dangerous combustion byproducts, including the total mass emission rate of byproducts as a percent of the total mass feed rate of PODCs fed to the incinerator;

(c) A quantitative analysis of the scrubber water (if any), ash residues, and other residues, for the purpose of estimating the fate of the trial PODCs and whether they are designated according to WAC 173-303-070;

(d) A total mass balance of the trial PODCs in the waste;

(e) A computation of destruction and removal efficiency (DRE), in accordance with the DRE formula specified in WAC 173-303-670 (4)(a);

(f) If the HCl emission rate exceeds 1.8 kilograms of HCl [HCl] per hour (4 pounds per hour), a computation of HCl [HCl] removal efficiency in accordance with WAC 173-303-670 (4)(c)(i);

(g) A computation of particulate emissions, in accordance with WAC 173-303-670 (4)(c)(ii);

(h) An identification of sources of fugitive emissions and their means of control;

(i) A measurement of average, maximum, and minimum temperatures, and combustion gas velocity;

(j) A continuous measurement of carbon monoxide in the exhaust gas;

(k) An identification of any existing air emission standards where a state or local air pollution control authority has established emission standards and such standards are applicable to the incinerator; and

(l) Such other information as the department may specify as necessary to ensure that the trial burn will determine compliance with the performance standard of WAC 173-303-670(4), and to establish the operating conditions required by WAC 173-303-670(6).

(7) Certification. The applicant shall submit to the department a certification that the trial burn has been carried out in accordance with the approved trial burn plan, and must submit the results of all determinations required by subsection (6) of this section. This submission shall be made within thirty days of the completion of the trial burn, or later if approved by the department.

(8) Submission of data. All data collected during any trial burn must be submitted to the department following the completion of the trial burn.

(9) Signatures required. All submissions required under this section shall be certified on behalf of the applicant by the signature of a person authorized to sign a permit application under WAC 173-303-810(12).

(10) Existing incinerators with interim status permits.

(a) The owner/operator of an existing incinerator currently operating under an interim status permit may, when required by the department (or when he chooses) to apply for a final facility permit, request the department to approve of a trial burn. The trial burn may be requested for the purposes of determining feasibility of compliance with the performance standards of WAC 173-303-670(4) and the operating conditions of WAC 173-303-670(6). If a trial burn is requested, the owner/operator shall prepare and submit a

trial burn plan and, upon approval by the department, perform a trial burn in accordance with subsections (2) through (9) of this section.

(b) If the department approves the trial burn, it shall issue a notice of interim status modification granting such approval and specifying the conditions applicable to the trial burn. The notice of modification shall be a condition of the interim status permit. Note: The national emission standards for hazardous air pollutants may require review for a notice of construction. Owners and operators should consult chapter 173-400 WAC or local air pollution control agency regulations for applicability.

(c) If the trial burn is approved before submitting a final facility permit application, the owner/operator shall complete the trial burn and submit the information described in subsection (6) of this section, with Part B of the permit application. If completion of this process conflicts with the date set for submission of Part B of the final facility permit application, the owner/operator must contact the department to extend the date for submitting the Part B or the trial burn results. If the applicant submits a trial burn plan with Part B of the final facility permit application, the department will specify in the notice of interim status modification issued under (b) of this subsection, a time period for conducting the trial burn and submitting the results. Trial burn results must be submitted prior to the issuance of the permit.

(11) New incinerators and new wastes.

(a)(i) The owner/operator of a new incinerator may submit with Part B of a final facility permit application a request for approval of a trial burn. This request shall include a statement of why the trial burn is desirable, and a trial burn plan prepared in accordance with subsection (2) of this section.

(ii) The department shall proceed to issue a final facility permit in accordance with WAC 173-303-806. The permit shall include the trial burn plan, and shall establish operating conditions for the trial burn including but not limited to those described in WAC 173-303-670(6). The time period for conducting the trial burn and submitting the results shall also be specified in the permit.

(iii) After the trial burn has been completed and the results submitted to the department, the final facility permit shall be modified in accordance with WAC 173-303-830(4) to establish the final operating requirements and performance standards for the incinerator.

(b) The owner/operator of an incinerator with a final facility permit who wishes to burn new wastes not currently included in his permit may request approval of a trial burn for the new wastes. The request and approval shall be handled in the same way as described in (a) of this subsection, except that in lieu of issuing an entirely new final facility permit the department will modify the existing final facility permit in accordance with WAC 173-303-830.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-810 General permit conditions. (1) Purpose and applicability. This section sets forth the general permit conditions that are applicable to all permits, except interim status permits and permits by rule, to assure compliance with this chapter. If the conditions of this section are

incorporated in a permit by reference, a specific citation to this section must be given in the permit.

(2) Duty to comply. The permittee must comply with all conditions of his permit. Any permit noncompliance constitutes a violation and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee need not comply with the conditions of his permit to the extent and for the duration such noncompliance is authorized in an emergency permit.

(3) Duty to reapply. If the permittee wishes to continue an activity regulated by the permit after its expiration date, the permittee must apply for and obtain a new permit.

(4) Duty to halt or reduce activity. A permittee who has not complied with his permit, and who subsequently is subject to enforcement actions, may not argue that it would have been necessary to halt or reduce the permitted activities in order to maintain compliance with the conditions of the permit.

(5) Duty to mitigate. The permittee shall take all steps required by the department to minimize or correct any adverse impact on the environment resulting from noncompliance with the permit.

(6) Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

(7) Permit actions. The permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, termination, notification of planned changes, or anticipated noncompliance, does not stay any permit condition.

(8) Effect of a permit. Compliance with a final facility permit during its term constitutes compliance for the purpose of enforcement with chapter 173-303 WAC except for permit modifications and those requirements not included in the permit which become effective by statute, or which are promulgated under 40 CFR Part 268 restricting the placement of dangerous waste in or on the land. The issuance of a permit does not convey any property rights of any sort, or any exclusive privilege. The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local laws or regulations.

(9) Duty to provide information. The permittee shall furnish to the department, within a reasonable time, any information which it may request to determine whether cause exists for modifying, revoking and reissuing, or terminating a permit, or to determine compliance with a permit. The permittee shall also furnish to the department, upon request, copies of records required to be kept by the permit.

(10) Inspection and entry. The permittee shall allow representatives of the department, upon the presentation of proper credentials, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and

(d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by chapter 173-303 WAC, any substances or parameters at any location.

(11) Monitoring and monitoring records.

(a) All permits shall specify:

(i) Requirements concerning the proper use, maintenance, and installation, when appropriate, of monitoring equipment or methods; and

(ii) Required monitoring including type, intervals, and frequency sufficient to yield data which are representative of the monitored activity including, when appropriate, continuous monitoring.

(b) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(c) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report, or application. This period may be extended by request of the department at any time.

(d) Records of monitoring information shall include:

(i) The date, exact place, and time of sampling or measurements;

(ii) The individual(s) who performed the sampling or measurements;

(iii) The date(s) analyses were performed;

(iv) The individual(s) who performed the analyses;

(v) The analytical techniques or methods used; and

(vi) The results of such analyses.

(e) The permittee shall maintain all records of ground water quality and ground water surface elevations for the active life of the facility, and for the post-closure period as well.

(12) Signatory requirement. All applications, reports, or information submitted to the department shall be signed in accordance with this subsection and shall be certified according to subsection (13) of this section.

(a) Applications. When a dangerous waste facility is owned by one person, but is operated by another person, then the operator shall be the permit applicant and responsible for developing the permit application and all accompanying materials, except that the owner must also sign and certify the permit application. Permit applications shall be signed as follows:

(i) For a corporation: By a responsible corporate officer. For the purposes of this subsection, a responsible corporate officer means:

(A) A president, secretary, treasurer, or vice president of the corporation in charge of a principal business function,

or any other person who performs similar policy or decision-making functions for the corporation; or

(B) The manager of one or more manufacturing, production or operating facilities employing more than two hundred fifty persons or having gross annual sales or expenditures exceeding twenty-five million dollars (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

(ii) For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or

(iii) For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this subsection, a principal executive officer of a federal agency includes:

(A) The chief executive officer of the agency; or

(B) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

(b) Reports. All reports required by permits and other information requested by the department shall be signed by a person described in (a) of this subsection, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(i) The authorization is made in writing by a person described in (a) of this subsection;

(ii) The authorization specifies either an individual or a position having responsibility for overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

(iii) The written authorization is submitted to the department.

(c) Changes to authorization. If an authorization under (b) of this subsection is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) of this subsection must be submitted to the department prior to or together with any reports, information, or applications to be signed by an authorized representative.

(13) Certification.

(a) Except as provided in (b) of this subsection, any person signing the documents required under (a) or (b) of subsection (12) of this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(b) When a dangerous waste facility is owned by one person, but is operated by another person, then the permit application must be certified as follows:

(i) The operator must make the certification described under (a) of this subsection; and

(ii) The owner must make the following certification:

"I certify under penalty of law that I own the real property described in, and am aware of the contents of, this permit application, and that I have received a copy of this application. As owner of the real property, I understand that I am responsible for complying with any requirements of chapter 173-303 WAC with which only I am able to comply, and that there are significant penalties for failure to comply with such requirements."

(14) Reporting. The following reports shall be provided:

(a) Planned changes. The permittee shall give notice to the department as soon as possible of any planned physical alterations or additions to the permitted facility. For a new TSD facility and for a facility being modified, the permittee may not treat, store, or dispose of dangerous waste in the new or modified portion of the facility until:

(i) The permittee has submitted to the department by certified mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit;

(Note: In certifying construction or modification, the independent qualified registered professional engineer is responsible only for certifying those portions of the facility which are identified in chapter 173-303 WAC as specifically requiring certification by an independent registered professional engineer.) and either

(ii) The department has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or

(iii) Within fifteen days of the date of submission of the letter, the permittee has not received notice from the department of its intent to inspect, prior inspection is waived and the permittee may commence treatment, storage, or disposal of dangerous waste.

(b) Anticipated noncompliance. The permittee shall give advance notice to the department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. For a new facility, the permittee may not treat, store, or dispose of dangerous waste; and for a facility being modified, the permittee may not treat, store, or dispose of dangerous waste in the modified portion of the facility except as provided in WAC 173-303-830(4).

(c) Transfers. The permit is not transferable to any person except after notice to the department. The department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

(d) Monitoring reports. Monitoring results (including monitoring of the facility's impacts as required by the applicable sections of this chapter) shall be reported at the intervals specified elsewhere in the permit.

(e) Compliance schedules. Reports of permit compliance or noncompliance or any progress reports on interim and final permit requirements contained in any compliance schedule shall be submitted no later than fourteen days following each scheduled date.

(f) Immediate reporting. The permittee shall immediately report any noncompliance which may endanger health or

the environment. Information shall be provided orally to the department as soon as the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances provided that the department may waive the written submission requirement in favor of a written report, to be submitted within fifteen days. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

Information which must be reported immediately shall include:

(i) Release of dangerous waste that may cause an endangerment to drinking water supplies or ground or surface waters;

(ii) Any information of a release or discharge of dangerous waste, fire, or explosion from the permitted facility which could threaten the environment or human health outside the facility;

(iii) The following description of any such occurrence:

(A) Name, address, and telephone number of the owner or operator;

(B) Name, address, and telephone number of the facility;

(C) Date, time, and type of incident;

(D) Name and quantity of material(s) involved;

(E) The extent of injuries, if any;

(F) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and

(G) Estimated quantity and disposition of recovered material that resulted from the incident.

(g) Other noncompliance. The permittee shall report all instances of noncompliance not reported under (d), (e), and (f) of this subsection, at the time monitoring reports are submitted. The reports shall contain the information listed in (f) of this subsection.

(h) Other information. Where the permittee becomes aware that he failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the department, he shall promptly submit this information.

(i) Other reports. In addition, the following reports are required when appropriate:

(i) Manifest discrepancy report as required by WAC 173-303-370(~~(5)~~) (4);

(ii) Unmanifested waste report as required by WAC 173-303-390(1); and

(iii) Annual report as required by WAC 173-303-390(2).

(15) Confidentiality.

(a) Information submitted by the owner/operator of a facility identified as confidential will be treated in accordance with chapter 42.17 RCW and RCW 43.21A.160.

(b) Proprietary information can be held confidential if the owner/operator indicates to the department the degree of harm if the information is made to the public.

(c) Claims of confidentiality for permit application information must be substantiated at the time the application is submitted and in the manner prescribed in the application

instructions. Claims of confidentiality for the name and address of any permit applicant will be denied.

(d) If a submitter does not provide substantiation, the department will notify the owner/operator by certified mail of the requirement to do so. If the department does not receive the substantiation within ten days after the submitter receives the notice, the department shall place the unsubstantiated information in the public file.

(e) The department will determine if the owner/operator's request meets the confidential information criteria.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-830 Permit changes. (1) Purpose and applicability. This section describes the types of permit changes that may be made to all permits issued by the department. This section does not apply to permits by rule or interim status permits.

(2) Transfer of permits.

(a) A permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under (b) of this subsection or subsection (3) of this section) to identify the new permittee and incorporate such other requirements as may be necessary under the appropriate act.

(b) Changes in the ownership or operational control of a facility may be made as a Class 1 modification with prior written approval of the department in accordance with subsection (4) of this section. The new owner or operator must submit a revised permit application no later than ninety days prior to the scheduled change. A written agreement containing a specific date for transfer of permit responsibility between the current and new permittees must also be submitted to the department. When a transfer of ownership or operational control occurs, the old owner or operator shall comply with the requirements of WAC 173-303-620 (Financial requirements) until the new owner or operator has demonstrated that he or she is complying with the financial requirements. The new owner or operator must demonstrate compliance with the financial requirements within six months of the date of the change of ownership or operational control of the facility. Upon demonstration to the department by the new owner or operator of compliance with the financial requirements, the department shall notify the old owner or operator that he or she no longer needs to comply with the financial requirements as of the date of demonstration.

(3) Modification or revocation and reissuance of permits. When the department receives any information (for example, inspects the facility, receives information submitted by the permittee as required in the permit, receives a request for revocation and reissuance, or conducts a review of the permit file), the department may determine whether or not one or more of the causes listed in (a) and (b) of this subsection for modification or revocation and reissuance or both exist. If cause exists, the department may modify or revoke and reissue the permit accordingly, subject to the limitations of (c) of this subsection, and may request an updated application if necessary. When a permit is modified, only the conditions subject to modification are reopened. If a permit is revoked and reissued, the entire

permit is reopened and subject to revision and the permit is reissued for a new term. If cause does not exist under this subsection, the department shall not modify or revoke and reissue the permit, except on request of the permittee. If a permit modification is requested by the permittee, the department shall approve or deny the request according to the procedures of subsection (4) of this section. Otherwise, a draft permit must be prepared and public review provided in accordance with WAC 173-303-840.

(a) Causes for modification. The following are causes for modification but not revocation and reissuance of permits, unless agreed to or requested by the permittee:

(i) Alterations. There are material and substantial alterations or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;

(ii) Information. Permits may be modified during their terms if the department receives information that was not available at the time of permit issuance and which would have justified the application of different permit conditions at the time of issuance;

(iii) New statutory requirements or regulations. The standards or regulations on which the permit was based have been changed by statute, through promulgation of new or amended standards or regulations or by judicial decision after the permit was issued. Permits may be modified during their terms for this cause (~~only when~~) as follows:

(A) The department may modify the permit when the standards or regulations on which the permit was based have been changed by statute or amended standards or regulations.

(B) Permittee may request modification when:

(I) The permit condition requested to be modified was based on an effective regulation; and

~~((B))~~ (II) The department has revised, withdrawn, or modified that portion of the regulation on which the permit condition was based; and either

~~((A))~~ a. The department decides to modify the permit because there would be a potential threat to public health or the environment if the permit does not incorporate the requirements of the amended regulation; or

~~((H))~~ b. A permittee requests modification within ninety days after the date the regulation amendments are adopted;

(iv) Compliance schedules. The department determines good cause exists for modification of a compliance schedule, such as an act of God, strike, flood, or materials shortage, or other events over which the permittee has little or no control and for which there is no reasonably available remedy;

(v) Closure plans or postclosure. When modification of a closure or postclosure plan is required under WAC 173-303-610 (3) or (8);

(vi) Revocation of changes approved prior to notice of closure. After the department receives the notification of expected closure under WAC 173-303-610(3), the department may determine that previously approved changes are no longer warranted. These include:

(A) Extension of the ninety or one hundred eighty day periods under WAC 173-303-610(4);

(B) Modification of the thirty year postclosure period under WAC 173-303-610(7);

(C) Continuation of security requirements under WAC 173-303-610(7); or

(D) Permission to disturb the integrity of the containment system under WAC 173-303-610(7);

(vii) When the permittee has filed a request under WAC 173-303-620 for a variance to the level of financial responsibility or when the department demonstrates under WAC 173-303-620 that an upward adjustment of the level of financial responsibility is required;

(viii) When the corrective action program specified in the permit under WAC 173-303-645 has not brought the regulated unit into compliance with the ground water protection standard within a reasonable period of time;

(ix) To include a detection monitoring program meeting the requirements of WAC 173-303-645, when the owner or operator has been conducting a compliance monitoring program under WAC 173-303-645 or a corrective action program under WAC 173-303-645 and compliance period ends before the end of the postclosure care period for the unit;

(x) When a permit requires a compliance monitoring program under WAC 173-303-645, but monitoring data collected prior to permit issuance indicate that the facility is exceeding the ground water protection standard;

(xi) To include conditions applicable to units at a facility that were not previously included in the facility's permit; or

(xii) When a land treatment unit is not achieving complete treatment of dangerous constituents under its current permit conditions.

(b) Causes for modification or revocation and reissuance. The following are causes to modify, or alternatively, revoke and reissue a permit:

(i) Cause exists for termination under WAC 173-303-806(12) for final facility permits, and the department determines that modification or revocation and reissuance is appropriate; or

(ii) The department has received notification of a proposed transfer of the permit.

(c) Facility siting. Suitability of the facility location will not be considered at the time of permit modification or revocation and reissuance unless new information or standards indicate that a threat to human health or the environment exists which was unknown at the time of permit issuance.

(4) Permit modification at the request of the permittee.

(a) Class 1 modifications.

(i) Except as provided in (a)(ii) of this subsection, the permittee may put into effect Class 1 modifications listed in Appendix I of this section under the following conditions:

(A) The permittee must notify the department concerning the modification by certified mail or other means that establish proof of delivery within seven calendar days after the change is put into effect. This notice must specify the changes being made to permit conditions or supporting documents referenced by the permit and must explain why they are necessary. Along with the notice, the permittee must provide the applicable information required by WAC 173-303-806(~~((4))~~), 173-303-807, and 173-303-808.

(B) The permittee must send a notice of the modification to all persons on the facility mailing list, maintained by the department in accordance with WAC 173-303-840

(3)(e)(i)(D), and the appropriate units of state and local government, as specified in WAC 173-303-840 (3)(e)(i)(E). This notification must be made within ninety calendar days after the change is put into effect. For the Class 1 modifications that require prior department approval, the notification must be made within ninety calendar days after the department approves the request.

(C) Any person may request the department to review, and the department may for cause reject, any Class 1 modification. The department must inform the permittee by certified mail that a Class 1 modification has been rejected, explaining the reasons for the rejection. If a Class 1 modification has been rejected, the permittee must comply with the original permit conditions.

(ii) Class 1 permit modifications identified in Appendix I by an asterisk may be made only with the prior written approval of the department.

(iii) For a Class 1 permit modification, the permittee may elect to follow the procedures in (b) of this subsection for Class 2 modifications instead of the Class 1 procedures. The permittee must inform the department of this decision in the notice required in (b)(i) of this subsection.

(b) Class 2 modifications.

(i) For Class 2 modifications, listed in Appendix I of this section, the permittee must submit a modification request to the department that:

(A) Describes the exact change to be made to the permit conditions and supporting documents referenced by the permit;

(B) Identifies that the modification is a Class 2 modification;

(C) Explains why the modification is needed; and

(D) Provides the applicable information required by WAC 173-303-806((4)), 173-303-807, and 173-303-808.

(ii) The permittee must send a notice of the modification request to all persons on the facility mailing list maintained by the department and to the appropriate units of state and local government as specified in WAC 173-303-840 (3)(e)(i)((E)) (D) and must publish this notice in a major local newspaper of general circulation. This notice must be mailed and published within seven days before or after the date of submission of the modification request, and the permittee must provide to the department evidence of the mailing and publication. The notice must include:

(A) Announcement of a sixty-day comment period, in accordance with (b)(v) of this subsection, and the name and address of a departmental contact to whom comments must be sent;

(B) Announcement of the date, time, and place for a public meeting held in accordance with (b)(iv) of this subsection;

(C) Name and telephone number of the permittee's contact person;

(D) Name and telephone number of a departmental contact person;

(E) Location where copies of the modification request and any supporting documents can be viewed and copied; and

(F) The following statement: "The permittee's compliance history during the life of the permit being modified is available from the department of ecology contact person."

(iii) The permittee must place a copy of the permit modification request and supporting documents in a location accessible to the public in the vicinity of the permitted facility.

(iv) The permittee must hold a public meeting no earlier than fifteen days after the publication of the notice required in (b)(ii) of this subsection and no later than fifteen days before the close of the sixty-day comment period. The meeting must be held to the extent practicable in the vicinity of the permitted facility.

(v) The public shall be provided sixty days to comment on the modification request. The comment period will begin on the date the permittee publishes the notice in the local newspaper. Comments should be submitted to the department of ecology contact identified in the public notice.

(vi)(A) No later than ninety days after receipt of the notification request, the department must:

(I) Approve the modification request, with or without changes, and modify the permit accordingly;

(II) Deny the request;

(III) Determine that the modification request must follow the procedures in (c) of this subsection for Class 3 modifications for the following reasons:

(AA) There is significant public concern about the proposed modification; or

(BB) The complex nature of the change requires the more extensive procedures of Class 3;

(IV) Approve the request, with or without changes, as a temporary authorization having a term of up to one hundred eighty days; or

(V) Notify the permittee that he or she will decide on the request within the next thirty days.

(B) If the department notifies the permittee of a thirty-day extension for a decision, the department must, no later than one hundred twenty days after receipt of the modification request:

(I) Approve the modification request, with or without changes, and modify the permit accordingly;

(II) Deny the request; or

(III) Determine that the modification request must follow the procedures in (c) of this subsection for Class 3 modifications for the following reasons:

(AA) There is significant public concern about the proposed modification; or

(BB) The complex nature of the change requires the more extensive procedures of Class 3.

(IV) Approve the request, with or without changes, as a temporary authorization having a term of up to one hundred eighty days.

(C) If the department fails to make one of the decisions specified in (b)(vi)(B) of this subsection by the one hundred twentieth day after receipt of the modification request, the permittee is automatically authorized to conduct the activities described in the modification request for up to one hundred eighty days, without formal departmental action. The authorized activities must be conducted as described in the permit modification request and must be in compliance with all appropriate standards of 40 CFR Part 265 (as referenced by WAC 173-303-400). If the department approves, with or without changes, or denies the modification request during the term of the temporary or automatic authorization provid-

ed for in (b)(vi)(A), (B); or (C) of this subsection, such action cancels the temporary or automatic authorization.

(D)(I) In the case of an automatic authorization under (b)(vi)(C) of this subsection, or a temporary authorization under (b)(vi)(A)(IV) or (B)(IV) of this subsection, if the department has not made a final approval or denial of the modification request by the date fifty days prior to the end of the temporary or automatic authorization, the permittee must within seven days of that time send a notification to persons on the facility mailing list, and make a reasonable effort to notify other persons who submitted written comments on the modification request, that:

(AA) The permittee has been authorized temporarily to conduct the activities described in the permit modification request; and

(BB) Unless the department acts to give final approval or denial of the request by the end of the authorization period, the permittee will receive authorization to conduct such activities for the life of the permit.

(II) If the owner/operator fails to notify the public by the date specified in (b)(vi)(D)(I) of this subsection, the effective date of the permanent authorization will be deferred until fifty days after the owner/operator notifies the public.

(E) Except as provided in (b)(vi)(G) of this subsection, if the department does not finally approve or deny a modification request before the end of the automatic or temporary authorization period or reclassify the modification as a Class 3, the permittee is authorized to conduct the activities described in the permit modification request for the life of the permit unless modified later under subsection (3) or (4) of this section. The activities authorized under this subsection (b)(vi)(E) must be conducted as described in the permit modification request and must be in compliance with all appropriate standards of 40 CFR Part 265 (as referenced by WAC 173-303-400).

(F) In making a decision to approve or deny a modification request, including a decision to issue a temporary authorization or to reclassify a modification as a Class 3, the department must consider all written comments submitted during the public comment period and must respond in writing to all significant comments in his or her decision.

(G) With the written consent of the permittee, the department may extend indefinitely or for a specified period the time periods for final approval or denial of a modification request or for reclassifying a modification as a Class 3.

(vii) The department may deny or change the terms of a Class 2 permit modification request under (b)(6)(i) through (iii) of this subsection for the following reasons:

(A) The modification request is incomplete;

(B) The requested modification does not comply with the appropriate requirements of WAC (~~173-303-283~~) 173-303-280 through 173-303-395 and 173-303-600 through 173-303-680 or other applicable requirements; or

(C) The conditions of the modification fail to protect human health and the environment.

(viii) The permittee may perform any construction associated with a Class 2 permit modification request beginning sixty days after the submission of the request unless the department establishes a later date for commencing construction and informs the permittee in writing before day sixty.

(c) Class 3 modifications.

(i) For Class 3 modifications listed in Appendix I of this section, the permittee must submit a modification request to the department that:

(A) Describes the exact change to be made to the permit conditions and supporting documents referenced by the permit;

(B) Identifies that the modification is a Class 3 modification;

(C) Explains why the modification is needed; and

(D) Provides the applicable information required by WAC 173-303-806(~~((4))~~), 173-303-807, and 173-303-808.

(ii) The permittee must send a notice of the modification request to all persons on the facility mailing list maintained by the department and to the appropriate units of state and local government as specified in WAC 173-303-840 (3)(e)(i)(~~((E))~~) (D) and must publish this notice in a major local newspaper of general circulation. This notice must be mailed and published within seven days before or after the date of submission of the modification request, and the permittee must provide to the department evidence of the mailing and publication. The notice must include:

(A) Announcement of a sixty-day comment period, and a name and address of an agency contact to whom comments must be sent;

(B) Announcement of the date, time, and place for a public meeting on the modification request, in accordance with (c)(4) of this subsection;

(C) Name and telephone number of the permittee's contact person;

(D) Name and telephone number of a departmental contact person;

(E) Location where copies of the modification request and any supporting documents can be viewed and copied; and

(F) The following statement: "The permittee's compliance history during the life of the permit being modified is available from the department of ecology contact person."

(iii) The permittee must place a copy of the permit modification request and supporting documents in a location accessible to the public in the vicinity of the permitted facility.

(iv) The permittee must hold a public meeting no earlier than fifteen days after the publication of the notice required in (c)(ii) of this subsection and no later than fifteen days before the close of the sixty-day comment period. The meeting must be held to the extent practicable in the vicinity of the permitted facility.

(v) The public shall be provided at least sixty days to comment on the modification request. The comment period will begin on the date the permittee publishes the notice in the local newspaper. Comments should be submitted to the department of ecology contact identified in the notice.

(vi) After the conclusion of the sixty-day comment period, the department must grant or deny the permit modification request according to the permit modification procedures of WAC 173-303-840. In addition, the department must consider and respond to all significant written comments received during the sixty-day comment period.

(d) Other modifications.

(i) In the case of modifications not explicitly listed in Appendix I of this section, the permittee may submit a Class 3 modification request to the department, or he or she may

request a determination by the department that the modification should be reviewed and approved as a Class 1 or Class 2 modification. If the permittee requests that the modification be classified as a Class 1 or 2 modification, he or she must provide the department with the necessary information to support the requested classification.

(ii) The department shall make the determination described in (d)(i) of this subsection as promptly as practicable. In determining the appropriate class for a specific modification, the department shall consider the similarity of the modification to other modifications codified in Appendix I and the following criteria:

(A) Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the department may require prior approval.

(B) Class 2 modifications apply to changes that are necessary to enable a permittee to respond, in a timely manner, to:

(I) Common variations in the types and quantities of the wastes managed under the facility permit;

(II) Technological advancements; and

(III) Changes necessary to comply with new regulations, where these changes can be implemented without substantially changing design specifications or management practices in the permit.

(C) Class 3 modifications substantially alter the facility or its operation.

(e) Temporary authorizations.

(i) Upon request of the permittee, the department may, without prior public notice and comment, grant the permittee a temporary authorization in accordance with this subsection. Temporary authorizations must have a term of not more than one hundred eighty days.

(ii)(A) The permittee may request a temporary authorization for:

(I) Any Class 2 modification meeting the criteria in (e)(iii)(B) of this subsection; and

(II) Any Class 3 modification that meets the criteria in (e)(iii)(B)(I) or (II) of this subsection; or that meets the criteria in (e)(iii)(B)(III) through (V) of this subsection and provides improved management or treatment of a dangerous waste already listed in the facility permit.

(B) The temporary authorization request must include:

(I) A description of the activities to be conducted under the temporary authorization;

(II) An explanation of why the temporary authorization is necessary; and

(III) Sufficient information to ensure compliance with the standards in WAC 173-303-280 through 173-303-395 and 173-303-600 through 173-303-680.

(C) The permittee must send a notice about the temporary authorization request to all persons on the facility mailing list maintained by the department and to appropriate units of state and local governments as specified in WAC 173-303-840 (3)(e)(i)(~~(B)~~) (D). This notification must be made within seven days of submission of the authorization request.

(iii) The department shall approve or deny the temporary authorization as quickly as practical. To issue a temporary authorization, the department must find:

(A) The authorized activities are in compliance with the standards of WAC 173-303-280 through 173-303-395 and 173-303-600 through 173-303-680.

(B) The temporary authorization is necessary to achieve one of the following objectives before action is likely to be taken on a modification request:

(I) To facilitate timely implementation of closure or corrective action activities;

(II) To allow treatment or storage in tanks or containers of restricted wastes in accordance with 40 CFR Part 268;

(III) To prevent disruption of ongoing waste management activities;

(IV) To enable the permittee to respond to sudden changes in the types or quantities of the wastes managed under the facility permit; or

(V) To facilitate other changes to protect human health and the environment.

(iv) A temporary authorization may be reissued for one additional term of up to one hundred eighty days provided that the permittee has requested a Class 2 or 3 permit modification for the activity covered in the temporary authorization, and:

(A) The reissued temporary authorization constitutes the department's decision on a Class 2 permit modification in accordance with (b)(vi)(A)(IV) or (B)(IV) of this subsection; or

(B) The department determines that the reissued temporary authorization involving a Class 3 permit modification request is warranted to allow the authorized activities to continue while the modification procedures of (c) of this subsection are conducted.

(f) Public notice and appeals of permit modification decisions.

(i) The department shall notify persons on the facility mailing list and appropriate units of state and local government within ten days of any decision under this section to grant or deny a Class 2 or 3 permit modification request. The department shall also notify such persons within ten days after an automatic authorization for a Class 2 modification goes into effect under (b)(vi)(C) or (E) of this subsection.

(ii) The department's decision to grant or deny a Class 2 or 3 permit modification request under this section may be appealed under the permit appeal procedures of WAC 173-303-845.

(iii) An automatic authorization that goes into effect under (b)(vi)(C) or (E) of this subsection may be appealed under the permit appeal procedures of WAC 173-303-845; however, the permittee may continue to conduct the activities pursuant to the automatic authorization until the appeal has been granted pursuant to WAC 173-303-845, notwithstanding the provisions of WAC 173-303-840 (8)(b).

(g) Newly listed or identified wastes.

(i) The permittee is authorized to continue to manage wastes listed or identified as dangerous under WAC 173-303-070 if he or she:

(A) Was in existence as a dangerous waste facility with respect to the newly listed or identified waste on the effective date of the final rule listing or identifying the waste;

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(B) Submits a Class 1 modification request on or before the date on which the waste becomes subject to the new requirements;

(C) Is in compliance with the standards of 40 CFR Part 265 (as referenced in WAC 173-303-400);

(D) In the case of Classes 2 and 3 modifications, also submits a complete permit modification request within one hundred eighty days after the effective date of the rule listing or identifying the waste; and

(E) In the case of land disposal units, certifies that such unit is in compliance with all applicable Part 265 ground water monitoring and financial responsibility requirements (as referenced in WAC 173-303-400) on the date twelve months after the effective date of the rule identifying or listing the waste as dangerous. If the owner or operator fails to clarify compliance with these requirements, he or she shall lose authority to operate under this section.

(ii) New wastes or units added to a facility's permit under this subsection do not constitute expansions for the purpose of the twenty-five percent capacity expansion limit for Class 2 modifications.

(h) Permit modification list. The department must maintain a list of all approved permit modifications and must publish a notice once a year in a state-wide newspaper that an updated list is available for review.

APPENDIX I

Modifications Class

A. General Permit Provisions

- 1. Administrative and informational changes 1
- 2. Correction of typographical errors 1
- 3. Equipment replacement or upgrading with functionally equivalent components (e.g., pipes, valves, pumps, conveyors, controls) 1
- 4. Changes in the frequency of or procedures for monitoring, reporting, sampling, or maintenance activities by the permittee:
 - a. To provide for more frequent monitoring, reporting, sampling, or maintenance 1
 - b. Other changes 2
- 5. Schedule of compliance:
 - a. Changes in interim compliance dates, with prior approval of the Director 1
 - b. Extension of final compliance date 3
- 6. Changes in expiration date of permit to allow earlier permit termination, with prior approval of the Director 1

7. Changes in ownership or operational control of a facility, provided the procedures of subsection (2)(b) of this section are followed 1

B. General Facility Standards

- 1. Changes to waste sampling or analysis methods:
 - a. To conform with agency guidance or regulations 1
 - b. Other changes 2
- 2. Changes to analytical quality assurance/control plan:
 - a. To conform with agency guidance or regulations 1
 - b. Other changes 2
- 3. Changes in procedures for maintaining the operating record 1

- 4. Changes in frequency or content of inspection schedules 2
- 5. Changes in the training plan:
 - a. That affect the type or decrease the amount of training given to employees 2
 - b. Other changes 1
- 6. Contingency plan:
 - a. Changes in emergency procedures (i.e., spill or release response procedures) 2
 - b. Replacement with functionally equivalent equipment, upgrade, or relocate emergency equipment listed 1
 - c. Removal of equipment from emergency equipment list 2
 - d. Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan 1

Note: When a permit modification (such as introduction of a new unit) requires a change in facility plans or other general facility standards, that change shall be reviewed under the same procedures as the permit modification.

C. Ground Water Protection

- 1. Changes to wells:
 - a. Changes in the number, location, depth, or design of upgradient or downgradient wells of permitted ground water monitoring system 2
 - b. Replacement of an existing well that has been damaged or rendered inoperable, without change to location, design, or depth of the well 1
- 2. Changes in ground water sampling or analysis procedures or monitoring schedule, with prior approval of the Director 1
- 3. Changes in statistical procedure for determining whether a statistically significant change in ground water quality between upgradient and downgradient wells has occurred, with prior approval of the Director 1
- 4. Changes in point of compliance 2
- 5. Changes in indicator parameters, hazardous constituents, or concentration limits (including ACLs):
 - a. As specified in the ground water protection standard 3
 - b. As specified in the detection monitoring program 2
- 6. Changes to a detection monitoring program as required by WAC 173-303-645 (9)(j), unless otherwise specified in this appendix 2
- 7. Compliance monitoring program:
 - a. Addition of compliance monitoring program as required by WAC 173-303-645 (9)(h)(iv) and (10) 3
 - b. Changes to a compliance monitoring program as required by WAC 173-303-645 (10)(k), unless otherwise specified in this appendix 2
- 8. Corrective action program:
 - a. Addition of a corrective action program as required by WAC 173-303-645 (10)(i)(ii) and (11) 3
 - b. Changes to a corrective action program as required by WAC 173-303-645 (11)(h), unless otherwise specified in this appendix 2

D. Closure

1. Changes to the closure plan:

- a. Changes in estimate of maximum extent of operations or maximum inventory of waste on-site at any time during the active life of the facility, with prior approval of the Director 11
 - b. Changes in the closure schedule for any unit, changes in the final closure schedule for the facility, or extension of the closure period, with prior approval of the Director 11
 - c. Changes in the expected year of final closure, where other permit conditions are not changed, with prior approval of the Director 11
 - d. Changes in procedures for decontamination of facility equipment or structures, with prior approval of the Director 11
 - e. Changes in approved closure plan resulting from unexpected events occurring during partial or final closure, unless otherwise specified in this appendix 2
 - f. Extension of the closure period to allow a landfill, surface impoundment, or land treatment unit to receive nondangerous wastes after final receipt of dangerous wastes under WAC 173-303-610 (4)(d) and (e) 2
2. Creation of a new landfill unit as part of closure 3
3. Addition of the following new units to be used temporarily for closure activities:
- a. Surface impoundments 3
 - b. Incinerators 3
 - c. Waste piles that do not comply with WAC 173-303-660 (1)(c) 3
 - d. Waste piles that comply with WAC 173-303-660 (1)(c) 2
 - e. Tanks or containers (other than specified below) 2
 - f. Tanks used for neutralization, dewatering, phase separation, or component separation, with prior approval of the Director 11

E. Post-Closure

- 1. Changes in name, address, or phone number of contact in post-closure plan 1
- 2. Extension of post-closure care period 2
- 3. Reduction in the post-closure care period 3
- 4. Changes to the expected year of final closure, where other permit conditions are not changed 1
- 5. Changes in post-closure plan necessitated by events occurring during the active life of the facility, including partial and final closure 2

F. Containers

- 1. Modification or addition of container units:
 - a. Resulting in greater than 25% increase in the facility's container storage capacity, except as provided in F (1)(c) and F (4)(a) below 3
 - b. Resulting in up to 25% increase in the facility's container storage capacity, except as provided in F (1)(c) and F (4)(a) below 2
 - c. Or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of

the department. This modification may also involve addition of new waste codes or narrative descriptions of wastes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 11

2:

- a. Modification of a container unit without increasing the capacity of the unit 2
 - b. Addition of a roof to a container unit without alteration of the containment system 1
3. Storage of different wastes in containers:
 - a. That require additional or different management practices from those authorized in the permit, except as provided in F(4) below 3
 - b. That do not require additional or different management practices from those authorized in the permit 2

Note: See (g) of this subsection for modification procedures to be used for the management of newly listed or identified wastes.

4. Storage of treatment of different wastes in containers:

- a. That require addition of units or change in treatment process or management standards, provided that the wastes are restricted from land disposal and are to be treated to meet some or all of the applicable treatment standards, or that are to be treated to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii). This modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1
- b. That do not require the addition of units or a change in the treatment process or management standards, and provided that the units have previously received wastes of the same type (e.g., incinerator scrubber water). This modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 11

G. Tanks

1:

- a. Modification or addition of tank units resulting in greater than 25% increase in the facility's tank capacity, except as provided in G (1)(c), G (1)(d), and G (1)(e) below 3
- b. Modification or addition of tank units resulting in up to 25% increase in the facility's tank capacity, except as provided in G (1)(d) and G (1)(e) below 2
- c. Addition of a new tank that will operate for more than 90 days using any of the following physical or chemical treatment technologies: neutralization, dewatering, phase separation, or component separation 2
- d. After prior approval of the department, addition of a new tank that will operate for up to 90 days using any of the following physical or chemical treatment technologies: neutralization, dewatering, phase separation, or component separation 11
- e. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the department. This modification may also involve addition of new waste

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codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1

2. Modification of a tank unit or secondary containment system without increasing the capacity of the unit 2

3. Replacement of a tank with a tank that meets the same design standards and has a capacity within +/- 10% of the replaced tank provided 1

- The capacity difference is no more than 1500 gallons,
- The facility's permitted tank capacity is not increased,

and
-The replacement tank meets the same conditions in the permit.

4. Modification of a tank management practice 2

5. Management of different wastes in tanks:

a. That require additional or different management practices, tank design, different fire protection specifications, or significantly different tank treatment process from that authorized in the permit, except as provided in G (5)(c) below 3

b. That do not require additional or different management practices, tank design, different fire protection specifications, or significantly different tank treatment process than authorized in the permit, except as provided in G (5)(d) 2

c. That require addition of units or change in treatment processes or management standards, provided that the wastes are restricted from land disposal and are to be treated to meet some or all of the applicable treatment standards or that are to be treated to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii). The modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1

(d) That do not require the addition of units or a change in the treatment process or management standards, and provided that the units have previously received waste of the same type (e.g., incinerator scrubber water). This modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1

Note: See (g) of this subsection for modification procedures to be used for the management of newly listed or identified wastes.

H. Surface Impoundments

1. Modification or addition of surface impoundment units that result in increasing the facility's surface impoundment storage or treatment capacity 3

2. Replacement of a surface impoundment unit 3

3. Modification of a surface impoundment unit without increasing the facility's surface impoundment storage or treatment capacity and without modifying the unit's liner, leak detection system, or leachate collection system 2

4. Modification of a surface impoundment management practice 2

5. Treatment, storage, or disposal of different wastes in surface impoundments:

a. That require additional or different management practices or different design of the liner or leak detection system than authorized in the permit 3

b. That do not require additional or different management practices or different design of the liner or leak detection system than authorized in the permit 2

c. That are wastes restricted from land disposal that meet the applicable treatment standards or that are treated to satisfy the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), and provided that the unit meets the minimum technological requirements stated in 40 CFR 268.5 (h)(2). This modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1

d. That are residues from wastewater treatment or incineration, provided that disposal occurs in a unit that meets the minimum technological requirements stated in 40 CFR 268.5 (h)(2), and provided further that the surface impoundment has previously received wastes of the same type (for example, incinerator scrubber water). This modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1

Note: See (g) of this subsection for modification procedures to be used for the management of newly listed or identified wastes.

I. Enclosed Waste Piles. For all waste piles except those complying with WAC 173-303-660 (1)(c), modifications are treated the same as for a landfill. The following modifications are applicable only to waste piles complying with WAC 173-303-660 (1)(c).

1. Modification or addition of waste pile units:

a. Resulting in greater than 25% increase in the facility's waste pile storage or treatment capacity 3

b. Resulting in up to 25% increase in the facility's waste pile storage or treatment capacity 2

2. Modification of waste pile unit without increasing the capacity of the unit 2

3. Replacement of a waste pile unit with another waste pile unit of the same design and capacity and meeting all waste pile conditions in the permit 1

4. Modification of a waste pile management practice 2

5. Storage or treatment of different wastes in waste piles:

a. That require additional or different management practices or different design of the unit 3

b. That do not require additional or different management practices or different design of the unit 2

Note: See (g) of this subsection for modification procedures to be used for the management of newly listed or identified wastes.

J. Landfills and Unenclosed Waste Piles

1. Modification or addition of landfill units that result in increasing the facility's disposal capacity 3

2. Replacement of a landfill 3

3. Addition or modification of a liner, leachate collection system, leachate detection system, run-off control, or final cover system 3

4. Modification of a landfill unit without changing a liner, leachate collection system, leachate detection system, run-off control, or final cover system 2

5. Modification of a landfill management practice 2

6. Landfill different wastes:

a. That require additional or different management practices, different design of the liner, leachate collection system, or leachate detection system 3

b. That do not require additional or different management practices, different design of the liner, leachate collection system, or leachate detection system 2

c. That are wastes restricted from land disposal that meet the applicable treatment standards or that are treated to satisfy the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), and provided that the landfill unit meets the minimum technological requirements stated in 40 CFR 268.5 (h)(2). This modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1

d. That are residues from wastewater treatment or incineration, provided that disposal occurs in a landfill unit that meets the minimum technological requirements stated in 40 CFR 268.5 (h)(2), and provided further that the landfill has previously received wastes of the same type (for example, incinerator ash). This modification is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028) 1

Note: See (g) of this subsection for modification procedures to be used for the management of newly listed or identified wastes.

K. Land Treatment

1. Lateral expansion of or other modification of a land treatment unit to increase areal extent 3

2. Modification of run-on control system 2

3. Modify run-off control system 3

4. Other modifications of land treatment unit component specifications or standards required in permit 2

5. Management of different wastes in land treatment units:

a. That require a change in permit operating conditions or unit design specifications 3

b. That do not require a change in permit operating conditions or unit design specifications 2

Note: See (g) of this subsection for modification procedures to be used for the management of newly listed or identified wastes.

6. Modification of a land treatment unit management practice to:

a. Increase rate or change method of waste application

b. Decrease rate of waste application 2

7. Modification of a land treatment unit management practice to change measures of pH or moisture content, or to enhance microbial or chemical reactions 2

8. Modification of a land treatment unit management practice to grow food chain crops, to add to or replace existing permitted crops with different food chain crops, or to modify operating plans for distribution of animal feeds resulting from such crops 3

9. Modification of operating practice due to detection of releases from the land treatment unit pursuant to WAC 173-303-655 (6)(g)(ii) 3

10. Changes in the unsaturated zone monitoring system, resulting in a change to the location, depth, number of sampling points, or replace unsaturated zone monitoring devices or components of devices with devices or components that have specifications different from permit requirements 3

11. Changes in the unsaturated zone monitoring system that do not result in a change to the location, depth, number of sampling points, or that replace unsaturated zone monitor-

ing devices or components of devices with devices or components having specifications different from permit requirements 2

12. Changes in background values for hazardous constituents in soil and soil-pore liquid 2

13. Changes in sampling, analysis, or statistical procedure 2

14. Changes in land treatment demonstration program prior to or during the demonstration 2

15. Changes in any condition specified in the permit for a land treatment unit to reflect results of the land treatment demonstration, provided performance standards are met, and the Director's prior approval has been received 2

16. Changes to allow a second land treatment demonstration to be conducted when the results of the first demonstration have not shown the conditions under which the wastes can be treated completely, provided the conditions for the second demonstration are substantially the same as the conditions for the first demonstration and have received the prior approval of the Director 2

17. Changes to allow a second land treatment demonstration to be conducted when the results of the first demonstration have not shown the conditions under which the wastes can be treated completely, where the conditions for the second demonstration are not substantially the same as the conditions for the first demonstration 3

18. Changes in vegetative cover requirements for closure 2

L. Incinerators

1. Changes to increase by more than 25% any of the following limits authorized in the permit: A thermal feed rate limit, a waste feed rate limit, or an organic chlorine feed rate limit. The Director will require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means 3

2. Changes to increase by up to 25% any of the following limits authorized in the permit: A thermal feed rate limit, a waste feed limit, or an organic chlorine feed rate limit. The Director will require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means 2

3. Modification of an incinerator unit by changing the internal size or geometry of the primary or secondary combustion units, by adding a primary or secondary combustion unit, by substantially changing the design of any component used to remove HCl or particulate from the combustion gases, or by changing other features of the incinerator that could affect its capability to meet the regulatory performance standards. The Director will require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means 3

4. Modification of an incinerator unit in a manner that would not likely affect the capability of the unit to meet the regulatory performance standards but which would change the operating conditions or monitoring requirements specified in the permit. The Director may require a new trial burn to demonstrate compliance with the regulatory performance standards 2

PERMANENT

PERMANENT

5. Operating requirements:

a. Modification of the limits specified in the permit for minimum combustion gas temperature, minimum combustion gas residence time, or oxygen concentration in the secondary combustion chamber. The Director will require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means 3

b. Modification of any stack gas emission limits specified in the permit, or modification of any conditions in the permit concerning emergency shutdown or automatic waste feed cutoff procedures or controls 3

c. Modification of any other operating condition or any inspection or recordkeeping requirement specified in the permit 2

6. Incineration of different wastes:

a. If the waste contains a POHC that is more difficult to incinerate than authorized by the permit or if incineration of the waste requires compliance with different regulatory performance standards than specified in the permit. The Director will require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means 3

b. If the waste does not contain a POHC that is more difficult to incinerate than authorized by the permit and if incineration of the waste does not require compliance with different regulatory performance standards than specified in the permit 2

Note: See (g) of this subsection for modification procedures to be used for the management of newly listed or identified wastes.

7. Shakedown and trial burn:

a. Modification of the trial burn plan or any of the permit conditions applicable during the shakedown period for determining operational readiness after construction, the trial burn period, or the period immediately following the trial burn 2

b. Authorization of up to an additional 720 hours of waste incineration during the shakedown period for determining operational readiness after construction, with the prior approval of the Director 11

c. Changes in the operating requirements set in the permit for conducting a trial burn, provided the change is minor and has received the prior approval of the Director 11

d. Changes in the ranges of the operating requirements set in the permit to reflect the results of the trial burn, provided the change is minor and has received the prior approval of the Director 11

8. Substitution of an alternate type of fuel that is not specified in the permit 1

¹ Class 1 modifications requiring prior Agency approval.

(5) Permit termination. The department shall follow the applicable procedures in WAC 173-303-840, procedures for decision making, in terminating any permit. The following are causes for terminating a permit during its term or for denying a permit renewal application:

(a) Noncompliance by the permittee with any condition of the permit;

(b) The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time; or

(c) A determination that the permitted activity endangers public health or the environment and can only be regulated to acceptable levels by permit modification or termination.

(6) Schedules of compliance.

(a) General. The permit may, when appropriate, specify a schedule of compliance leading to compliance with chapter 173-303 WAC.

(b) Time for compliance. Any schedules of compliance under this section shall require compliance as soon as possible.

(c) Interim dates. If a permit establishes a schedule of compliance which exceeds one year from the date of permit issuance, the schedule shall set forth interim requirements and the dates for their achievement as follows;

(i) The time between interim dates shall not exceed one year; or

(ii) If the time necessary for completion of any interim requirement (such as the construction of a control facility) is more than one year and is not readily divisible into stages for completion, the permit shall specify interim dates for the submission of reports of progress toward completion of the interim requirements and indicate a projected completion date.

(d) Reporting. The permit shall be written to require that no later than fourteen days following each interim date and the final date of compliance, the permittee shall notify the department in writing of its compliance or noncompliance with the interim or final requirements.

M. Corrective Action

1. Approval of a corrective action management unit pursuant to WAC 173-303-646 (4), (5), and (6) . . class 1.

2. Approval of a temporary unit or time extension for a temporary unit pursuant to WAC 173-303-646(7) class 2.

AMENDATORY SECTION (Amending Order DE 84-22, filed 6/27/84)

WAC 173-303-840 Procedures for decision making.

(1) Application and completeness.

(a) The department will not begin the processing of a permit until the applicant has fully complied with the application requirements for the permit. Permit applications must comply with the signature and certification requirements of WAC 173-303-810 (12) and (13).

(b) The department shall review for completeness each application for a permit under this chapter. Each application for a permit should be reviewed for completeness within sixty days of its receipt. Upon completing the review, the department shall notify the applicant in writing whether or not the application is complete. If the application is incomplete, the department shall list the information necessary to make the application complete, and shall specify in the notice of deficiency a date for submitting the necessary information. After the application is completed, the department may request additional information from an applicant but only when necessary to clarify, modify, or supplement previously submitted material. Requests for such additional information will not render an application incomplete.

(c) If an applicant fails or refuses to correct deficiencies in the application, the permit may be denied and appropriate enforcement actions may be taken under chapter 70.105 RCW.

(d) If the department decides that a site visit is necessary for any reason in conjunction with the processing of an application, then the department shall notify the applicant and a date shall be scheduled.

(e) The effective date of an application is the date on which the department notifies the applicant that the application is complete as provided in (b) of this subsection.

(2) Draft permits.

(a) A draft permit is a document prepared by the department indicating the tentative decision to issue, deny, modify, revoke and reissue, or terminate a permit.

(b) When an application is ~~((completed))~~ complete, the department shall tentatively decide whether to prepare a draft permit, or to deny the application.

(c) If the department tentatively decides to deny the permit application, then the department shall issue a notice of intent to deny. A notice of intent to deny the permit application is a type of draft permit which follows the same procedures as any draft permit prepared under this subsection. If the department's final decision is that the tentative decision to deny was incorrect, then the department shall withdraw the notice of intent to deny and proceed to prepare a draft permit under this subsection.

(d) If the department decides to prepare a draft permit, it shall contain the following information:

(i) All conditions applicable to permits under WAC 173-303-810;

(ii) Applicable conditions under WAC 173-303-830; and

(iii) All applicable standards for storage, treatment and disposal, and other permit conditions.

(e) All draft permits must be accompanied by a fact sheet that is supported by administrative record and made available for public comment.

(f) Fact sheet; statement of basis.

(i) A fact sheet shall be prepared for every draft permit for a major dangerous waste management facility, and for every draft permit which the department finds is the subject of wide-spread public interest or raises major issues.

(ii) The fact sheet shall briefly set forth the principal facts and the significant factual, legal, methodological, and policy questions considered in preparing the draft permit. The department shall send this fact sheet to the applicant and, on request, to any other person.

(iii) The fact sheet shall include, when applicable:

(A) A brief description of the type of facility or activity which is the subject of the draft permit;

(B) The type and quantity of wastes, fluids, or pollutants which are proposed to be or are being treated, stored, disposed, injected, emitted, or discharged;

(C) A brief summary of the basis for the draft permit conditions including supporting references;

(D) Reasons why any requested variances or alternatives to required standards do or do not appear justified; and

(E) A description of the procedures for reaching a final decision on the draft permit including:

(I) The beginning and ending dates of the comment period and the address where comments will be received;

(II) Procedures for requesting a hearing and the nature of that hearing;

(III) Any other procedures by which the public may participate in the final decision; and

(IV) Name and telephone number of a person to contact for additional information.

(iv) The department shall prepare a statement of basis for every draft permit for which a fact sheet is not prepared. The statement of basis shall briefly describe the derivation of the conditions of the draft permit and the reasons for them or, in the case of notices of intent to deny or terminate, reasons supporting the tentative decision. The statement of basis shall be sent to the applicant and, on request, to any other person.

(3) Public notice and involvement.

(a) The department shall give public notice that the following actions have occurred:

(i) A draft permit has been prepared or an application is tentatively being denied;

(ii) A hearing on a permit has been scheduled; or

(iii) An appeal on a permit has been filed with the pollution control hearings board.

(b) No public notice is required when a request for permit modification, revocation and reissuance, or termination is denied. A written notice of the denial shall be given to the person who requested the permit change and to the permittee.

(c) The public notice may describe more than one permit or permit action.

(d) Public notice of the preparation of a draft permit, including a notice of intent to deny a permit application shall allow at least forty-five days for public comment. Public notice of a public hearing shall be given at least thirty days before the hearing.

(e) Public notice of activities described in this subsection shall be given by the following methods:

(i) By mailing a copy of a notice to the following persons (any person otherwise entitled to receive notice under this paragraph may waive his or her rights to receive notice for any classes and categories of permits):

(A) The applicant;

(B) Any other agency which the department knows has issued or is required to issue a permit for the same activity or facility;

(C) Federal and state agencies with jurisdiction over fish, shellfish, and wildlife resources and over coastal zone management plans, the advisory council on historic preservation, state historic preservation officers, and other appropriate government authorities, including any affected states;

(D) Persons on the mailing list developed by:

(I) Including those who request in writing to be on the list;

(II) Soliciting persons for an area list from participants in past permit proceedings in that area; and

(III) Notifying the public of the opportunity to be put on the mailing list through periodic publications in the public press and in appropriate publications of the department;

(E) Any unit of local government having jurisdiction over the area where the facility is proposed to be located, and each state agency having any authority under state law with respect to construction or operation of such facility;

(ii) For major permits, by publication of a notice in a daily or weekly newspaper within the area affected by the facility;

(iii) For all permits, by publication of notice in a daily or weekly major local newspaper of general circulation, and local radio broadcast of the public notice; and

(iv) By any other method reasonably calculated to give notice of the action in question to the persons potentially affected by it, including press releases or any other forum or medium to elicit public participation.

(4) Contents of the public notice.

(a) All public notices issued shall contain the following minimum information:

(i) Name and address of the office processing the permit action for which notice is being given;

(ii) Name and address of the permittee or permit applicant and, if different, of the facility or activity regulated by the permit;

(iii) A brief description of the business conducted at the facility or activity described in the permit application or the draft permit;

(iv) Name, address, and telephone number of a person from whom interested persons may obtain further information, including copies of the draft permit, fact sheet or statement of basis, and the application;

(v) A brief description of the comment procedures and the time and place of any hearing that will be held, including a statement of procedures to request a hearing (unless a hearing has already been scheduled) and other procedures by which the public may participate in the final permit decision;

(vi) And any additional information considered necessary or proper.

(b) In addition to the general public notice described in (a) of this subsection, public notice of a hearing under subsection (5) of this section shall contain the following information:

(i) Date, time, and place of the hearing;

(ii) Reference to the date of the previous public notice relating to the permit; and

(iii) A brief description of the nature and purpose of the hearing including the applicable rules and procedures.

(c) In addition to the general public notice all persons identified in WAC 173-303-840 (3)(e)(i)(A), (B), and (C) shall be mailed a copy of the fact sheet, the permit application (if any), and the draft permit (if any).

(d) Public comments and request for public hearings. During the public comment period any interested person may submit written comments on the draft permit and may request a public hearing, if no hearing has already been scheduled. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. All comments shall be considered in making the final decision and shall be answered according to WAC 173-303-840(9).

(5) Public hearings.

(a) The department shall hold a public hearing whenever, on the basis of requests, there is a significant degree of public interest in a draft permit or there is written notice of opposition and the director receives a request for a hearing during the forty-five day comment period. The department also may hold a public hearing at its discretion, whenever, for instance, such a hearing might clarify one or more issues

involved in the permit decision. Public notice of the hearing shall be given as specified in WAC 173-303-840(3). Whenever possible, the department shall schedule a public hearing under this subsection at a location convenient to the nearest population center to the proposed facility.

(b) Any person may submit oral or written statements and data concerning the draft permit. Reasonable limits may be set upon the time allowed for oral statements, and the submission of statements in writing may be required. The public comment period under WAC 173-303-840(3) shall automatically be extended to the close of any public hearing under this subsection. The hearing officer may also extend the comment period by so stating at the hearing.

(c) A tape recording or written transcript of the hearing shall be made available to the public.

(6) Obligation to raise issues and provide information during the public comment period.

(a) All persons, including applicants, who believe any condition of a draft permit is inappropriate, or that the department's tentative decision to deny an application, terminate a permit, or prepare a draft permit is inappropriate, must raise all reasonably ascertainable issues and submit all reasonably available arguments and factual grounds supporting their position, including all supporting material, by the close of the public comment period (including any public hearing) under WAC 173-303-840(3).

(b) All supporting materials shall be included in full and may not be incorporated by reference, unless they are already part of the administrative record in the same proceeding, or consist of state or federal statutes and regulations, documents of general applicability, or other generally available reference materials. Commenters shall make supporting material not already included in the administrative record available to the department. A comment period longer than thirty days will often be necessary in complicated proceedings to give commenters a reasonable opportunity to comply with the requirements of this subsection. Commenters may request a longer comment period.

(7) Reopening of the public comment period. If any data, information, or arguments submitted during the public comment period, including information or arguments required under subsection (6) of this section, appear to raise substantial new questions concerning a permit, the department may take one or more of the following actions:

(a) Prepare a new draft permit, appropriately modified;

(b) Prepare a revised statement of basis, a fact sheet or revised fact sheet, and reopen the comment period; or

(c) Reopen or extend the comment period to give interested persons an opportunity to comment on the information or arguments submitted.

Comments filed during the reopened comment period shall be limited to the substantial new questions that caused its reopening. The public notice shall define the scope of the reopening.

(8) Issuance and effective date of permit.

(a) After the close of the public comment period under WAC 173-303-840(5) on a draft permit, the department shall issue a final permit decision (or a decision to deny a permit for the active life of a RCRA dangerous waste facility or unit under WAC 173-303-840). The department shall notify the applicant and each person who has submitted written comments or requested notice of the final permit decision.

For purposes of this section, a final permit means a final decision to issue, deny, modify, revoke and reissue, or terminate a permit.

(b) A final permit decision shall become effective thirty days after the service of notice of the decision, unless:

(i) A later effective date is specified in the decision; or

(ii) No comments requested a change in the draft permit, in which case the permit shall become effective immediately upon issuance.

(9) Response to comments. At the time that any final permit is issued, the department shall issue a response to comments. This response shall specify which provisions, if any, of the draft permit have been changed in the final permit decision and the reason for the change, and briefly describe and respond to all significant comments of the draft permit raised during the public comment period or during any hearing. The response to comments shall be available to the public.

(10) Decision-making procedure for modification, revocation and reissuance, or termination of permits.

(a) Permits may be modified, revoked and reissued, or terminated either at the request of any interested person (including the permittee) or upon the department's initiative. However, permits may only be modified or revoked and reissued for the reasons specified in WAC 173-303-830 (3) and (4), or terminated for the reasons specified in WAC 173-303-805 or 173-303-806. All requests shall be in writing and shall contain facts or reasons supporting the request.

(b) If the department tentatively decides to modify or revoke and reissue a permit under WAC 173-303-830(3), it shall prepare the draft permit under WAC 173-303-840(2), incorporating the proposed changes. The department may request additional information and, in the case of a modified permit, may require the submission of an updated permit application. In the case of revoked and reissued permits, the department shall require the submission of a new application.

(c) In a permit modification under this section, only those conditions to be modified shall be reopened when a new draft permit is prepared. All other aspects of the existing permit shall remain in effect for the duration of the unmodified permit. When a permit is revoked and reissued under this section, the entire permit is reopened just as if the permit had expired and was being reissued. During any revocation and reissuance proceeding the permittee shall comply with all conditions of the existing permit until a new final permit is reissued.

(d) "Minor modifications" as defined in WAC 173-303-830(4) are not subject to the requirements of this section.

(e) If the department tentatively decides to terminate an interim status permit under WAC 173-303-805 or a final permit under WAC 173-303-806, it shall issue a notice of intent to terminate. A notice of intent to terminate is a type of draft permit which follows the same procedures as any draft permit prepared under WAC 173-303-840(2).

AMENDATORY SECTION (Amending Order DE 81-33, filed 2/10/82)

WAC 173-303-900 Public involvement and participation. (1) Intent. Public involvement and participation plays a significant role in the decision making process. The department intends to foster public awareness, information

and consultation, and to respond actively to public concerns. The department will inform the public of major issues, proposed projects, and regulatory changes, and will consult interested and affected segments of the public before making important decisions. The overall goal of the department is to provide knowledge to the public about dangerous waste issues that vitally affect the state, to encourage broader understanding of the public role in dangerous wastes and their proper management, and to promote an open dialogue between the public, industry, and government.

(2) Applicable requirements. In fulfilling the intent of public involvement and participation in the decision making process, the department will refer to and, where applicable, follow the requirements and guidance set forth in the following:

(a) Chapter 34.04 RCW, Administrative Procedure Act;

(b) Chapter 34.08 RCW, Washington State Register Act of 1977;

(c) Chapter 42.17 RCW, Public Records Act;

(d) Chapter ((197-10)) 197-11 WAC, Guidelines Interpreting and Implementing the State Environmental Policy Act;

(e) 40 CFR Part 25, Public Participation in Programs Under the Resource Conservation and Recovery Act, the Safe Drinking Water Act, and the Clean Water Act; and

(f) The Washington state solid waste management plan, December 1980.

AMENDATORY SECTION (Amending Order DE 83-36, filed 1/5/88, effective 2/5/88)

WAC 173-303-910 Petitions. (1) General petitions.

(a) Any person may petition the department to modify or revoke any provision in this chapter. This subsection sets forth general requirements which apply to all such petitions. The remaining subsections of this section describe additional requirements for specific types of petitions.

(b) Each petition must be submitted to the department by certified mail and must include:

(i) The petitioner's name and address;

(ii) A statement of the petitioner's interest in the proposed action;

(iii) A description of the proposed action, including (where appropriate) suggested regulatory language; and

(iv) A statement of the need and justification for the proposed action, including any supporting tests, studies, or other information.

(c) The department will make a tentative decision to grant or deny the petition and give public notice of the tentative decision in writing. The notice shall be distributed to interested persons on a mailing list developed specifically for petitions and persons expressing interest in amendments to this chapter. The public comment period shall be a minimum of forty-five days.

(d) Upon the written request of any interested person, the director may, at his discretion, hold a conference to consider oral comments on the action proposed in the petition. A person requesting a conference must state the issues to be raised and explain why written comments would not suffice to communicate the person's views. The director may in any case decide on his own motion to hold a conference.

(e) After evaluating all public comments the department will make a final decision in accordance with RCW ((34.04.060)) 34.05.330 or ((34.04.080)) 34.05.240. The department will either deny the petition in writing (stating its reasons for denial); or grant the petition and, when appropriate, initiate rule-making proceedings in accordance with RCW ((34.04.025)) 34.05.330.

(2) Petitions for equivalent testing or analytical methods.

(a) Any person seeking to add a testing or analytical method to WAC 173-303-110 may petition for a regulatory amendment under this section. To be successful, the person must demonstrate to the satisfaction of the department that the proposed method is equal to or superior to the corresponding method prescribed in WAC 173-303-110, in terms of its sensitivity, accuracy, and precision (i.e., reproducibility).

(b) Each petition must include, in addition to the information required by subsection (1) of this section:

(i) A full description of the proposed method, including all procedural steps and equipment used in the method;

(ii) A description of the types of wastes or waste matrices for which the proposed method may be used;

(iii) Comparative results obtained from using the proposed method with those obtained from using the relevant or corresponding methods prescribed in WAC 173-303-110;

(iv) An assessment of any factors which may interfere with, or limit the use of, the proposed method; and

(v) A description of the quality control procedures necessary to ensure the sensitivity, accuracy and precision of the proposed method.

(c) After receiving a petition for an equivalent testing or analytical method, the department may request any additional information on the proposed method which it may reasonably require to evaluate the proposal.

(d) If the department amends the regulations to permit use of a new testing method, the method will be incorporated in a document which will be available from the department.

(3) Petitions for exempting dangerous wastes from a particular generator.

(a) Any generator seeking to exempt his dangerous waste may petition the department for exemption from the requirements of WAC 173-303-070 through ((473-303-103)) 173-303-100.

(b) To be successful, the generator must make the demonstrations required in WAC 173-303-072(3) and, where applicable, (4) and (5).

(c) Each petition must include, in addition to the information required by subsection (1) of this section:

(i) The name and address of the laboratory facility performing the sampling or tests of the waste;

(ii) The names and qualifications of the persons sampling and testing the waste;

(iii) The dates of sampling and testing;

(iv) The location of the generating facility;

(v) A description of the manufacturing processes or other operations and feed materials producing the waste and an assessment of whether such processes, operations, or feed materials can or might produce a waste that is not covered by the demonstration;

(vi) A description of the waste and an estimate of the average and maximum monthly and annual quantities of waste covered by the demonstration;

(vii) Pertinent data on and discussion of the factors delineated in WAC 173-303-072(3) and, where applicable, (4) and (5);

(viii) A description of the methodologies and equipment used to obtain the representative samples;

(ix) A description of the sample handling and preparation techniques, including techniques used for extraction, containerization and preservation of the samples;

(x) A description of the tests performed (including results);

(xi) The names and model numbers of the instruments used in performing the tests and the date of the last calibration for instruments which must be calibrated according to manufacturer's instructions; and

(xii) The following statement signed by the generator of the waste or his authorized representative:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this demonstration and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

(d) After receiving a petition for a dangerous waste exemption, the department may request any additional information which it may reasonably require to evaluate the petition.

(e) An exemption will only apply to the waste generated by the particular generator covered by the demonstration and will not apply to waste from any other generator.

(f) The department may exempt only part of the waste for which the demonstration is submitted where there is reason to believe that variability of the waste justifies a partial exemption.

(g) The department may (but shall not be required to) grant a temporary exemption before making a final decision under subsection (1) of this section, whenever it finds that there is a substantial likelihood that an exemption will be finally granted.

(h) Any waste for which an exemption is sought will remain designated and be subject to the applicable requirements of this chapter until the generator of the waste is notified by the department that his waste is exempt.

(4) Petition for exclusion.

(a) Any generators seeking exclusion of a class of similar or identical wastes under WAC 173-303-071, excluded categories of waste, may petition the department for exclusion. To be successful, the generator(s) must make the demonstrations required in WAC 173-303-072(6) for all those wastes generated in the state which might be excluded pursuant to granting a petition submitted under this subsection. No class of wastes will be excluded if any of the wastes are regulated as hazardous waste under 40 CFR Part 261.

(b) Each petition for exclusion must include the information required by subsections (1) and (3)(c) of this section and any other information required by the department.

(c) After receiving a petition for exclusion, the department may request any additional information it deems necessary to evaluate the petition.

(5) Petition for designation change. The provisions of (a)(i) of this subsection do not apply to any dangerous waste which is also designated as a hazardous waste under 40 CFR Part 261 Subpart D.

(a) A generator may petition the department to change the designation of his waste as follows:

(i) A waste which is designated only for toxicity pursuant to WAC ((473-303-084 or 173-303-101)) 173-303-100 but which is toxic solely because it is highly acidic or basic (i.e., due to high or low pH) may be subject only to the requirements for corrosive dangerous wastes, provided that the generator can demonstrate this fact to the department's satisfaction through information provided under (b) of this subsection; and

(ii) A waste which is designated EHW may be redesignated DW, provided that the generator can demonstrate that such redesignation is appropriate through information provided under (b) of this subsection.

(b) A petition under this subsection must include:

(i) The information required by subsections (1) and (3)(c) of this section; and

(ii) Such other information as required by the department.

(c) A designation change under this subsection will become effective only after the department has approved the change and notified the generator of such approval.

(6) Petitions to allow land disposal of a waste restricted under WAC 173-303-140.

(a) Any person seeking a land disposal restriction exemption allowed under WAC 173-303-140(6) must submit a petition to the department. The petition must include the following general information:

(i) The petitioner's name and address;

(ii) A statement of the petitioner's interest in the proposed action;

(iii) A description of the proposed action;

(iv) A statement of the need and justification for the proposed action;

(v) An identification of the specific waste and the specific land disposal unit for which the exemption is desired;

(vi) A waste analysis to describe fully the chemical and physical characteristics of the subject waste. All waste and environmental sampling, test, and analysis data must be accurate and reproducible to ((~~the~~)) the extent that state-of-the-art techniques allow; and

(vii) A quality assurance and quality control plan that addresses all sampling and testing aspects of the information provided in the petition.

(b) In addition to the general information requirements in subsection (a) of this section, the following specific information must be provided in the petition for individual case-by-case exemptions.

(i) Petition for land disposal exemption for treatment residuals. Petitions for exemption of treatment residuals, as allowed under WAC 173-303-140 (6)(a), must:

(A) Provide the type of waste management or treatment method applied to the waste and the rationale for selecting this method as the best achievable management method; and

(B) Document that the land disposal of the treatment residual would not pose a greater risk to public health and the environment than land disposal of the original wastes, including an analysis of the treatment residuals to fully describe their chemical and physical characteristics; and

(C) Provide the management alternatives for the treatment residuals and the factors which, if an exemption is not granted, would prevent the utilization of the best achievable management method for the original dangerous waste.

(ii) Petition for economic hardship exemption. Petitions for exemption on the basis of economic hardship, as allowed under WAC 173-303-140 (6)(b), must:

(A) Supply the current management costs and the projected management costs to comply with the requirements of WAC 173-303-140; and

(B) Provide the source of information utilized in determining the economic estimates; and

(C) Provide a discussion of how the projected compliance costs would impose an unreasonable economic burden.

(iii) Petition for leachable inorganic waste exemption. Petitions for exemption of leachable inorganic wastes, as allowed under WAC 173-303-140 (6)(c), must:

(A) Provide information demonstrating that the stabilization of the dangerous waste is less protective of public health and the environment than landfilling; or

(B) Provide a list of stabilization facilities that could accept the dangerous waste and information demonstrating that they do not have available capacity to stabilize the waste; or

(C) Provide information describing the types of stabilization utilized which did not reduce the solubility and mobility of the dangerous waste constituents and describe any other stabilization methods that have been considered but not utilized.

(iv) Petition for organic/carbonaceous waste exemption. Petitions for exemption of organic/carbonaceous wastes, as allowed under WAC 173-303-140 (6)(d), must:

(A) Provide information demonstrating that recycling, treatment and incineration facilities are unavailable for the waste, including a map marked both with the point of waste generation and the point(s) of the nearest treatment, recycling and incineration facility(s) that could manage the dangerous waste; or

(B) Provide information demonstrating that the alternative management methods for organic/carbonaceous waste are less protective of public health and the environment than stabilization and landfilling; or

(C) Provide information demonstrating that:

(I) Recycling and treatment facilities are unavailable for the waste, including a map marked both with the point of waste generation and the point(s) of the nearest treatment, recycling and incineration facility(s) that could manage the dangerous waste; and

(II) The organic/carbonaceous waste has a heat content less than 3,000 BTU/LB or a moisture content greater than sixty-five percent.

(c) Each petition must include the following statement signed by the petitioner or an authorized representative:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this petition and all attached docu-

ments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

(d) Each petition must be submitted to:

Department of Ecology
Hazardous Waste Land
Disposal Exemption
Mailstop PV-11
Olympia, WA 98504-8711

(e) After receiving a petition, the department may request any additional information that reasonably may be required to evaluate the petition and accompanying demonstration, such as a comprehensive characterization of the disposal unit site including an analysis of background air, soil, and water quality. Simulation models must be calibrated for the specific waste and site conditions, and verified for accuracy by comparison with actual measurements.

(f)(i) The department will make a tentative decision to grant or deny the petition and give public notice of the tentative decision in writing. The notice shall be distributed to interested persons on a mailing list developed specifically for petitions and persons expressing interest in amendments to this chapter. The public comment period shall be a minimum of forty-five days.

(ii) Upon the written request of any interested person, the department may, at its discretion, hold a conference to consider oral comments on the action proposed in the petition. A person requesting a conference must state the issues to be raised and explain why written comments would not suffice to communicate the person's views. The department may in any case decide on its own motion to hold a conference.

(iii) After evaluating all public comments the department will make a final decision in accordance with RCW 34.04.060 or 34.04.080. The department will either deny the petition in writing (stating its reasons for denial), or grant the petition.

(g) Prior to the department's decision, the applicant is required to comply with all restrictions on land disposal under WAC 173-303-140. The department should respond to a petition within ninety days.

(h) If an exemption is granted, the department may include specific conditions as deemed necessary by the department to protect public health and the environment.

(i) If granted, the exemption will apply to land disposal of the specific restricted waste at the individual disposal unit described in the petition and accompanying demonstration. The exemption will not apply to any other restricted waste at that disposal unit, nor will it apply to that specific restricted waste at any other disposal unit.

(j) If an exemption is granted, the department may withdraw the exemption on the following bases:

(i) If there is a threat to public health and the environment; or

(ii) If there is migration of dangerous waste constituents from the land disposal unit or site for as long as the waste remains dangerous; or

(iii) If the department finds reason to believe that the information submitted in a petition is inaccurate or has been falsified such that the petition should have been denied.

(k) The term of an exemption granted under this subsection will be established by the department at the time of issuance.

(l) Any exemption granted by the department does not relieve the petitioner of his responsibilities in the management of dangerous waste under chapter 173-303 WAC.

(m) The department may (but shall not be required to) grant a temporary exemption before making a final decision, whenever it finds that there is a substantial likelihood that an exemption will be finally granted. Temporary exemptions shall not be subject to the procedures of (f) of this subsection. Temporary exemptions shall not be a cause of delaying final decision making on the petition request.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-9903 Discarded chemical products list.

DISCARDED CHEMICAL PRODUCTS LIST

| Dangerous Waste No. | CAS No. | Substance | WDOE Hazard Designation | Reason for Designation* |
|--|-------------------|---|-------------------------|-------------------------|
| ACUTELY DANGEROUS CHEMICAL PRODUCTS | | | | |
| P023 | <u>107-20-0</u> | Acetaldehyde, chloro- | EHW | B H |
| U001 | <u>75-07-0</u> | Acetaldehyde | EHW | C |
| U034 | <u>75-87-6</u> | Acetaldehyde, trichloro- | EHW | H |
| P002 | <u>591-08-2</u> | Acetamide, N-(aminothioxomethyl)- | EHW | B |
| P057 | <u>640-19-7</u> | Acetamide, 2-fluoro- | EHW | B H |
| U240 | <u>94-75-7</u> | <u>Acetic acid, (2,4-dichlorophenoxy)-, salts & esters</u> | <u>EHW</u> | <u>CH</u> |
| P058 | <u>67-74-8</u> | Acetic acid, fluoro-, sodium salt | EHW | A H |
| U144 | <u>301-04-2</u> | Acetic acid, lead (2+) salt | EHW | D ((EP)) TC |
| P066 | <u>16752-77-5</u> | Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester | EHW | B |
| U003 | <u>75-05-8</u> | Acetonitrile | EHW | C I |
| P001 | <u>81-81-2</u> | 3-(alpha-Acetyl-benzyl)-4-hydroxycoumarin and salts | EHW | A |
| P002 | <u>591-08-2</u> | 1-Acetyl-2-thiourea | EHW | B |
| U006 | <u>75-36-5</u> | Acetyl chloride | EHW | C H O R |
| P003 | <u>107-02-8</u> | Acrolein | EHW | X I |
| U007 | <u>79-06-1</u> | Acrylamide | EHW | C |
| U008 | <u>79-10-7</u> | Acrylic acid | EHW | C O I |
| U009 | <u>107-13-1</u> | Acrylonitrile | EHW | C ((+)) I |
| P070 | <u>116-06-3</u> | Aldicarb | EHW | B |
| P004 | <u>309-00-2</u> | Aldrin | EHW | X H |
| P005 | <u>107-18-6</u> | Allyl alcohol | EHW | B I |
| P006 | <u>20859-73-8</u> | Aluminum phosphide (R,T) | EHW | B R |
| P007 | <u>2763-96-4</u> | 5-(Aminomethyl)-3-isoxazolol | EHW | B |
| P008 | <u>504-24-5</u> | 4-alpha-((Aminopyridine)) <u>Aninopyridine</u> | EHW | B |
| P009 | <u>131-74-8</u> | Ammonium picrate | EHW | R |
| P119 | <u>7803-55-6</u> | Ammonium vanadate | EHW | B |
| U012 | <u>62-53-3</u> | Aniline | EHW | C I |
| P099 | <u>506-61-6</u> | <u>Argentate(1-), bis(cyano-C)-, potassium</u> | <u>EHW</u> | <u>BR</u> |
| P010 | <u>7778-39-4</u> | Arsenic acid | EHW | B |
| P012 | <u>1327-53-3</u> | Arsenic (III) oxide | EHW | B ((+)) |
| P011 | <u>1303-28-2</u> | Arsenic (V) oxide | EHW | B |
| P011 | <u>1303-28-2</u> | Arsenic pentoxide | EHW | B |
| P012 | <u>1327-53-3</u> | Arsenic trioxide | EHW | B ((+)) |
| P038 | <u>692-42-2</u> | Arsine, diethyl- | EHW | B |
| P036 | <u>696-28-6</u> | <u>Arsonous dichloride, phenyl-</u> | <u>EHW</u> | <u>?</u> |
| U015 | <u>115-02-6</u> | Azaserine | EHW | C ((+)) |
| P054 | <u>151-56-4</u> | Aziridine | EHW | B ((+)) |
| P067 | <u>75-55-8</u> | <u>Aziridine, 2-methyl-</u> | <u>EHW</u> | <u>I</u> |
| U010 | <u>50-07-7</u> | Azirino(2',3':3,4)pyrrolo(1,2a)indole-4,7-dione, 6-amino-8-(((aminocarbonyl)oxy)methyl)-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-[1aS-(1alpha, 8beta, 8alpha)]- | EHW | B ((+)) |
| P013 | <u>542-62-1</u> | Barium cyanide | EHW | A |
| U157 | <u>56-49-5</u> | Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- | EHW | H P |
| U017 | <u>98-87-3</u> | Benzal chloride | EHW | D H |
| U018 | <u>56-55-3</u> | Benz[a]anthracene | EHW | P ((+)) |
| U018 | <u>56-55-3</u> | 1,2-Benzanthracene | EHW | P ((+)) |
| U094 | <u>57-97-6</u> | 1,2-Benzanthracene, 7,12-dimethyl- | EHW | C P |
| U012 | <u>62-53-3</u> | Benzenamine | EHW | C I |
| P024 | <u>106-47-8</u> | Benzenamine, 4-chloro- | EHW | C H |
| U049 | <u>3165-93-3</u> | Benzenamine, 4-chloro-2-methyl-, hydrochloride | EHW | H |
| U093 | <u>60-11-7</u> | Benzenamine, N, N-dimethyl-4-(phenylazo)- | EHW | C ((+)) |
| U158 | <u>101-14-4</u> | Benzenamine, 4,4-methylenebis(2-chloro- | EHW | H ((+)) |
| P077 | <u>100-01-6</u> | Benzenamine, 4-nitro- | EHW | D ? |
| P028 | <u>100-44-7</u> | Benzene, (chloromethyl)- | EHW | B H ((+)) |

PERMANENT

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|------|-------------------|---|------------|-----------|
| U019 | <u>71-43-2</u> | Benzene | EHW | C ((+)) I |
| U038 | <u>510-15-6</u> | Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl) -alpha-hydroxy, ethylester | EHW | H |
| U030 | <u>101-55-3</u> | Benzene, 1-bromo-4-phenoxy- | EHW | H |
| U035 | <u>305-03-3</u> | <u>Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-</u> | <u>EHW</u> | <u>H</u> |
| U037 | <u>108-90-7</u> | Benzene, chloro- | EHW | B H I |
| U190 | <u>85-44-9</u> | 1,2-Benzenedicarboxylic acid anhydride | EHW | C |
| U070 | <u>95-50-1</u> | Benzene, 1,2-dichloro- | EHW | B H |
| U071 | <u>541-73-1</u> | Benzene, 1,3-dichloro- | EHW | B H |
| U072 | <u>106-46-7</u> | Benzene, 1,4-dichloro- | EHW | B H |
| U017 | <u>98-87-3</u> | Benzene, (dichloromethyl)- | EHW | D H |
| U223 | <u>26471-45-8</u> | Benzene, 1,3-diisocyanatomethyl- | EHW | B R |
| U239 | <u>1330-20-7</u> | Benzene, dimethyl- | EHW | C I |
| U201 | <u>108-46-3</u> | 1,3-Benzenediol | EHW | C |
| P046 | <u>122-09-8</u> | <u>Benzeneethanamine, alpha, alpha-dimethyl-</u> | <u>EHW</u> | <u>?</u> |
| U127 | <u>118-74-1</u> | Benzene, hexachloro- | EHW | H |
| U056 | <u>110-82-7</u> | Benzene, hexahydro- | EHW | C I |
| U188 | <u>108-95-2</u> | Benzene, hydroxy- | EHW | C |
| U220 | <u>108-88-3</u> | Benzene, methyl- | EHW | C I |
| U105 | <u>121-14-2</u> | Benzene, 1-methyl-2,4-dinitro | EHW | C |
| U106 | <u>606-20-2</u> | Benzene, ((1-methyl-2,6-dinitro-) 2 Methyl-1,3 dinitro- | EHW | C |
| U055 | <u>98-82-8</u> | Benzene, (1,methylethyl)- | EHW | C I |
| U169 | <u>98-95-3</u> | Benzene, nitro- | EHW | C I |
| U183 | <u>608-93-5</u> | Benzene, pentachloro | EHW | H |
| U185 | <u>82-68-8</u> | Benzene, pentachloronitro- | EHW | D H ((+)) |
| U020 | <u>98-09-9</u> | Benzenesulfonic acid chloride | EHW | D H O R |
| U020 | <u>98-09-9</u> | Benzenesulfonyl chloride | EHW | D H O R |
| U207 | <u>95-94-3</u> | Benzene, 1,2,4,5-tetrachloro- | EHW | D H |
| U247 | <u>72-43-5</u> | <u>Benzene, 1,1'-(2,2,2-trichloroethylidene) bis[4-methoxy-H</u> | <u>EHW</u> | <u>DH</u> |
| U023 | <u>98-07-7</u> | Benzene, (trichloromethyl)- | EHW | H O R |
| P042 | <u>51-43-4</u> | 1,2-Benzenediol, 4-[1-hydroxy-2- (methyl-amino)ethyl]- | EHW | B |
| P014 | <u>108-98-5</u> | Benzenethiol | EHW | A |
| U021 | <u>97-87-5</u> | Benzidine | EHW | B ((+)) |
| U064 | <u>189-55-9</u> | <u>Benzo[rs]t]pentaphene</u> | <u>EHW</u> | <u>P</u> |
| P001 | <u>81-81-2</u> | <u>2H- 1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1 -phenylbutyl)-, & salts, when present at concentrations greater than 0.3%</u> | <u>EHW</u> | <u>B</u> |
| U022 | <u>50-32-8</u> | Benzo[a]pyrene | EHW | P ((+)) |
| U022 | <u>50-32-8</u> | 3,4-Benzopyrene | EHW | P ((+)) |
| U197 | - - | p-Benzoquinone | EHW | C |
| U023 | <u>98-07-7</u> | Benzotrichloride | EHW | H O R |
| U050 | <u>218-01-9</u> | 1,2-Benzphenanthrene | EHW | P ((+)) |
| P028 | <u>100-44-7</u> | Benzyl chloride | EHW | B H ((+)) |
| P015 | <u>7440-41-7</u> | Beryllium ((dust)) | EHW | C ((+)) |
| U085 | <u>1464-53-5</u> | 2,2'-Bioxirane | EHW | B I |
| U021 | <u>97-87-5</u> | ((±))(1,1"-Biphenyl)-4,4'-diamine | EHW | B ((+)) |
| U073 | <u>91-94-1</u> | (1,1'-Biphenyl-4,4'-diamine, 3,3'- dichloro- | EHW | H ((+)) |
| U095 | <u>119-93-7</u> | (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethyl- | EHW | C ((+)) |
| U024 | <u>111-91-1</u> | Bis(2-chloroethoxy) methane | EHW | C H |
| U027 | <u>108-60-1</u> | Bis(2-chloroisopropyl) ether | EHW | C H O |
| P016 | <u>542-88-1</u> | Bis(chloromethyl) ether | EHW | B H ((+)) |
| U246 | <u>506-68-3</u> | Bromine cyanide | EHW | C H |
| P017 | <u>598-31-2</u> | Bromoacetone | EHW | C H |
| U225 | <u>75-25-2</u> | Bromoform | EHW | H |
| U030 | <u>101-55-3</u> | 4-Bromophenyl phenyl ether | EHW | H |
| P018 | <u>357-57-3</u> | Brucine | EHW | A |
| U128 | <u>87-68-3</u> | 1,3-Butadiene, 1,1,2,3,4,4- hexachloro- | EHW | C H |
| U035 | <u>305-03-3</u> | Butanoic acid, 4-[bis(2-chloroethyl) amino] benzene- | EHW | H ((+)) |
| P045 | <u>39196-18-4</u> | <u>2-Butanone, 3,3-dimethyl-1-(methylthio)- O- [methylamino]carbonyl] oxime</u> | <u>EHW</u> | <u>B</u> |
| U160 | <u>1338-23-4</u> | 2-Butanone peroxide | EHW | B R |
| U053 | <u>4170-30-3</u> | 2-Butenal | EHW | B I |
| U074 | <u>764-41-0</u> | 2-Butene, 1,4-dichloro- | EHW | C H I |
| U143 | <u>303-34-4</u> | <u>2-Butanoic acid, 2-methyl-, 7-[[2,3-dihydroxy- 2-(1-methoxyethyl)-3 methyl-1-oxobutoxy]methyl]-2,3,5,7a- tetrahydro- 1H-pyrrolizin-1yl ester, [1S-[1alspha(Z), 7(2S*,3R*),7aalpha]]-</u> | <u>EHW</u> | <u>C</u> |

| | | | | |
|------|-------------------|--|-----|------------------------|
| U032 | <u>13765-19-0</u> | Calcium chromate | EHW | C ((+EP)) TC |
| P021 | <u>592-01-8</u> | Calcium cyanide | EHW | B |
| P021 | <u>592-01-8</u> | Calcium cyanide Ca(CN) ₂ | EHW | R |
| P123 | <u>8001-35-2</u> | Camphene, octachloro- | EHW | X H |
| U178 | <u>615-53-2</u> | Carbamic acid, methylnitroso-, ethylester | EHW | C ((+)) |
| U176 | <u>759-73-9</u> | Carbamide, N-ethyl-N-nitroso- | EHW | C ((+)) |
| U177 | <u>684-93-5</u> | Carbamide, N-methyl-N-nitroso- | EHW | C ((+)) |
| U219 | <u>62-56-6</u> | Carbamide, thio- | EHW | C ((+)) |
| P103 | <u>630-10-4</u> | Carbamimidoseleonic acid | EHW | B |
| U062 | <u>2303-16-4</u> | Carbathioic acid, bis (1-methylethyl)-, S-(2,3-dichloro-2propenyl)ester | EHW | C H |
| U097 | <u>79-44-7</u> | Carbamoyl chloride, dimethyl- | EHW | D H ((+)) |
| P022 | <u>75-15-0</u> | Carbon bisulfide | EHW | D I ? |
| P022 | <u>75-15-0</u> | Carbon disulfide | EHW | D I ? |
| U156 | <u>79-22-1</u> | Carbonochloridic acid, methyl ester | EHW | B H I |
| U033 | <u>353-50-4</u> | Carbon oxyfluoride | EHW | B H R |
| U211 | <u>56-23-5</u> | Carbon tetrachloride | EHW | C H ((+)) |
| P095 | <u>75-44-5</u> | ((Carbonyl chloride)) Carbonic dichloride | EHW | B H |
| U033 | <u>353-50-4</u> | Carbonic difluoride | EHW | BH |
| U033 | <u>353-50-4</u> | Carbonyl fluoride | EHW | B H R |
| U035 | <u>305-03-3</u> | Chlorambucil | EHW | H ((+)) |
| U036 | <u>57-74-9</u> | Chlordane, ((technical)) alpha and gamma isomers | EHW | X H |
| P033 | <u>506-77-4</u> | Chlorine cyanide | EHW | A H |
| U026 | <u>494-03-1</u> | Chlornaphazine | EHW | H ((+)) |
| P023 | <u>107-20-0</u> | Chloroacetaldehyde | EHW | B H |
| P024 | <u>106-47-8</u> | p-Chloroaniline | EHW | C H |
| U037 | <u>108-90-7</u> | Chlorobenzene | EHW | B H I |
| U038 | <u>510-15-6</u> | Chlorobenzilate | EHW | DH |
| U039 | <u>59-50-7</u> | ((4))P-Chloro-m-cresol | EHW | H |
| U041 | <u>106-89-8</u> | 1-Chloro-2,3-epoxypropane | EHW | C H ((+)) I |
| U042 | <u>110-75-8</u> | 2-Chloroethyl vinyl ether | EHW | C H |
| U044 | <u>67-66-3</u> | Chloroform | EHW | C H ((+)) |
| U046 | <u>107-30-2</u> | Chloromethyl methyl ether | EHW | D H ((+)) I |
| U047 | <u>91-58-7</u> | beta-Chloronaphthalene | EHW | D H |
| U048 | <u>95-57-8</u> | o-Chlorophenol | EHW | D H |
| P026 | <u>5344-82-1</u> | 1-(o-Chlorophenyl)thiourea | EHW | A H |
| P027 | <u>542-76-7</u> | 3-Chloropropionitrile | EHW | B H |
| U049 | <u>3165-93-3</u> | 4-Chloro-o-toluidine, hydrochloride | EHW | H |
| U032 | <u>13765-19-0</u> | Chromic acid, calcium salt | EHW | C ((+EP)) TC |
| U050 | <u>218-01-9</u> | Chrysene | EHW | P ((+)) |
| P029 | <u>544-92-3</u> | Copper cyanide Cu(CN) | EHW | R |
| P029 | <u>544-92-3</u> | Copper cyanides | EHW | B |
| U052 | <u>1319-77-3</u> | Cresols | EHW | B |
| U052 | <u>1319-77-3</u> | Cresylic acid | EHW | B |
| U053 | <u>4170-30-3</u> | Crotonaldehyde | EHW | B I |
| U055 | <u>98-82-8</u> | Cummene | EHW | C I |
| P030 | <u>xx-xx-x</u> | Cyanides (soluble cyanide salts), not elsewhere specified | EHW | A |
| P031 | <u>460-19-5</u> | Cyanogen | EHW | B I |
| U246 | <u>506-68-3</u> | Cyanogen bromide | EHW | C H |
| P033 | <u>506-77-4</u> | Cyanogen chloride | EHW | A H |
| U197 | <u>106-51-4</u> | ((1,4-Cyclohexadienedione)) 2,5-Cyclohexadiene-1,4-dione | EHW | C |
| U056 | <u>110-82-7</u> | Cyclohexane | EHW | C I |
| U129 | <u>58-89-9</u> | Cyclohexane, 1,2,3,4,5,6-hexachloro-(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- | EHW | C H |
| U057 | <u>108-94-1</u> | Cyclohexanone | EHW | C I |
| P034 | <u>131-89-5</u> | 2-Cyclohexyl-4,6-dinitrophenol | EHW | C |
| U130 | <u>77-47-4</u> | 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexa-chloro- | EHW | X H |
| U058 | <u>50-18-0</u> | Cyclophosphamide | EHW | C H ((+)) I |
| U240 | <u>94-75-7</u> | 2,4-D, salts and esters | EHW | B H |
| U060 | <u>72-54-8</u> | DDD | EHW | C H ((+)) |
| U061 | <u>50-29-3</u> | DDT | EHW | X H ((+)) |
| U142 | <u>143-50-0</u> | Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one | EHW | X H |
| U062 | <u>2303-16-4</u> | Diallate | EHW | C H ((+)) |
| U133 | <u>302-01-2</u> | Diamine | EHW | B ((+)) R |
| U063 | <u>55-70-3</u> | Dibenz[a,h]anthracene | EHW | A P ((+)) |
| U063 | <u>55-70-3</u> | 1,2:5,6-Dibenzanthracene | EHW | P ((+)) A |
| U064 | <u>189-55-9</u> | 1,2:7,8-Dibenzopyrene | EHW | P ((+)) |
| U064 | <u>189-55-9</u> | Dibenz[a,i]pyrene | EHW | P ((+)) |
| U066 | <u>96-12-8</u> | 1,2-Dibromo-3-chloropropane | EHW | C H ((+)) |
| U062 | <u>2303-16-4</u> | S-(2,3-Dichloroallyl) diisopropylthiocarbamate | EHW | C H ((+)) C H ((+)) |

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| U070 | <u>95-50-1</u> | o-Dichlorobenzene | EHW | B H |
| U071 | <u>541-73-1</u> | m-Dichlorobenzene | EHW | B H |
| U072 | <u>106-46-7</u> | p-Dichlorobenzene | EHW | B H |
| U073 | <u>91-94-1</u> | 3,3'-Dichlorobenzidine | EHW | H ((+)) |
| U074 | <u>764-41-0</u> | 1,4-Dichloro-2-butene | EHW | C H I |
| U075 | <u>75-71-8</u> | Dichlorodifluoromethane | EHW | H |
| U060 | <u>72-54-8</u> | Dichloro diphenyl dichloroethane | EWH | C H ((+)) |
| U061 | <u>50-29-3</u> | Dichloro diphenyl trichloroethane | EWH | X H ((+)) |
| U078 | <u>75-35-4</u> | 1,1-Dichloroethylene | EHW | C H ((+)) |
| U079 | <u>156-60-5</u> | 1,2-Dichloroethylene | EHW | D H |
| U025 | <u>111-44-4</u> | Dichloroethyl ether | EHW | C H |
| U027 | <u>108-60-1</u> | Dichloroisopropyl ether | <u>EHW</u> | <u>CHR</u> |
| P016 | <u>542-88-1</u> | <u>Dichloromethyl ether</u> | <u>EHW</u> | <u>HI</u> |
| U081 | <u>120-83-2</u> | 2,4-Dichlorophenol | EHW | D H |
| U082 | <u>87-65-0</u> | 2,6-Dichlorophenol | EHW | D H |
| U240 | <u>94-75-7</u> | 2,4-Dichlorophenoxyacetic acid, salts and esters | EHW | B H |
| P036 | <u>696-28-6</u> | Dichlorophenylarsine | EHW | B H |
| U083 | <u>78-87-5</u> | 1,2-Dichloropropane | EHW | C H I |
| U084 | <u>542-75-6</u> | 1,3-Dichloropropene | EHW | C H |
| P037 | <u>60-57-1</u> | Dieldrin | EHW | X H ((+)) |
| U085 | <u>1464-53-5</u> | 1,2:3,4-Diepoxybutane | EHW | B I |
| P038 | <u>692-42-2</u> | Diethylarsine | EHW | B |
| P039 | <u>298-04-4</u> | O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate | EHW | A |
| U087 | <u>3288-58-2</u> | O,O-Diethyl-S-methyl-dithiophosphate | EHW | B |
| P041 | <u>311-45-5</u> | Diethyl-p-nitrophenyl phosphate | EHW | A |
| P040 | <u>297-97-2</u> | O,O-Diethyl O-((pyrazonyl) pyrazinyl) phosphorothioate | EHW | A |
| P043 | <u>55-91-4</u> | Diisopropyl fluorophosphate | EHW | B H |
| P004 | <u>309-00-2</u> | <u>1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a, -hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-</u> | <u>EHW</u> | <u>B H</u> |
| P060 | <u>465-73-6</u> | <u>1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro - 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)</u> | EHW | B H |
| P037 | <u>60-57-1</u> | <u>2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9, 9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-</u> | <u>EHW</u> | <u>B H</u> |
| P051 | <u>72-20-8</u> | <u>2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9, 9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octohydro-, (1alpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)- & metabolites</u> | EHW | B H |
| P044 | <u>60-51-5</u> | Dimethoate | EHW | A |
| U092 | <u>124-40-3</u> | Dimethylamine | EHW | C I |
| U093 | <u>60-11-7</u> | P-Dimethylaminoazobenzene | EHW | C ((+)) |
| U094 | <u>57-97-6</u> | 7,12-Dimethylbenz[a]anthracene | EWH | C P |
| U095 | <u>119-93-7</u> | 3,3'-Dimethylbenzidine | EHW | C ((+)) |
| U096 | <u>80-15-9</u> | alpha, alpha-Dimethylbenzylhydro peroxide | EHW | C R |
| U097 | <u>79-44-7</u> | Dimethylcarbamoyl chloride | EHW | D H ((+)) |
| U099 | <u>540-73-8</u> | 1,2-Dimethylhydrazine | EHW | C ((+)) I |
| P045 | <u>39196-18-4</u> | 3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino) carbonyl] oxime | EHW | B |
| P071 | <u>298-00-0</u> | O,O-Dimethyl O-p-nitrophenyl phosphorothioate | EHW | A |
| P082 | <u>62-75-9</u> | Dimethylnitrosamine | EHW | B ((+)) |
| P046 | <u>122-09-8</u> | alpha, alpha-Dimethylphenethylamine | EHW | C |
| U103 | <u>77-78-1</u> | Dimethyl sulfate | EHW | C O ((+)) |
| P047 | <u>534-52-1</u> | 4,6-Dinitro-o-cresol and salts | EHW | B |
| P034 | <u>131-89-5</u> | 4,6-Dinitro-o-cyclohexylphenol | EHW | C |
| P048 | <u>51-28-5</u> | 2,4-Dinitrophenol | EHW | B |
| U105 | <u>121-14-2</u> | 2,4-Dinitrotoluene | EHW | C |
| U106 | <u>606-20-2</u> | 2,6-Dinitrotoluene | EHW | C |
| P020 | <u>88-85-7</u> | Dinoseb | EHW | B |
| U109 | <u>122-66-7</u> | 1,2-Diphenylhydrazine | EHW | C |
| ((P035)) | | | | |
| P085 | <u>152-16-9</u> | Diphosphoramidate, octamethyl | EHW | ? |
| P111 | <u>107-49-3</u> | <u>Diphosphoric acid, tetraethyl ester</u> | <u>EHW</u> | <u>A</u> |
| U110 | <u>142-84-7</u> | Dipropylamine | EHW | C I |
| U111 | <u>621-64-7</u> | Di-n-propylnitrosamine | EHW | C ((+)) |
| P039 | <u>298-04-4</u> | Disulfoton | EHW | A |
| P049 | <u>541-53-7</u> | ((2,4-))Dithiobiuret | EHW | A |
| P109 | <u>3689-24-5</u> | Dithiopyrophosphoric acid, tetraethyl ester | EHW | A |

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| P050 | <u>115-29-7</u> | Endosulfan | EHW | X H |
| P088 | <u>145-73-3</u> | Endothall | EHW | B |
| P051 | <u>72-20-8</u> | Endrin | EHW | X H |
| P051 | <u>72-20-8</u> | <u>Endrin, & metabolites</u> | EHW | B H |
| U041 | <u>106-89-8</u> | <u>Epichlorhydrin</u> | <u>EHW</u> | <u>B I R</u> |
| P042 | <u>51-43-4</u> | Epinephrine | EHW | B |
| U001 | <u>75-07-0</u> | Ethanal | EHW | C |
| U174 | <u>55-18-4</u> | Ethanamine, N-ethyl-N-nitroso- | EHW | C ((+)) |
| P046 | <u>122-09-8</u> | Ethanamine, 1,1-dimethyl-2-phenyl- | EHW | C |
| U067 | <u>106-93-4</u> | Ethane, 1,2-dibromo- | EHW | C H ((+)) |
| U076 | <u>75-34-3</u> | Ethane, 1,1-dichloro- | EHW | D H |
| U077 | <u>107-06-2</u> | Ethane, 1,2-dichloro- | EHW | D H |
| P031 | <u>460-19-5</u> | <u>Ethanedinitrite</u> | <u>EHW</u> | <u>R</u> |
| U114 | <u>111-54-6</u> | 1,2-Ethanediylobiscarbamodithioic acid | EHW | B |
| U131 | <u>67-72-1</u> | Ethane, ((1,1,1,2,2,2))hexachloro- | EHW | H |
| U024 | <u>111-91-1</u> | Ethane, 1,1'-[methylenebis(oxy)] bis[2-chloro- | EHW | C H |
| U247 | <u>72-43-5</u> | Ethane, 1,1,1-trichloro-2,2-bis(p-methoxy phenyl) | EHW | D H |
| U003 | <u>75-05-8</u> | Ethanenitrile | EHW | C |
| U025 | <u>111-44-4</u> | Ethane, 1,1'-oxybis[2-chloro- | EHW | C H |
| U184 | <u>76-01-7</u> | Ethane, pentachloro- | EHW | A H |
| U208 | <u>630-20-6</u> | Ethane, 1,1,1,2-tetrachloro- | EHW | H |
| U209 | <u>79-34-5</u> | Ethane, 1,1,2,2-Tetrachloro- | EHW | H |
| U227 | <u>79-00-5</u> | Ethane, 1,1,2-trichloro- | EHW | C H |
| P066 | <u>16752-77-5</u> | <u>Ethanimidothioc acid, N-[[[(methylamino) carbonyl]oxy]-, methyl ester</u> | <u>EHW</u> | <u>B</u> |
| P084 | <u>4549-40-0</u> | Ethenamine, N-methyl-N-nitroso | EHW | B ((+)) |
| U043 | <u>75-01-4</u> | Ethene, chloro- | EHW | D H ((+)) |
| U042 | <u>110-75-8</u> | Ethane, 2-chloroethoxy- | EHW | C H |
| U078 | <u>75-35-4</u> | Ethene, 1,1-dichloro- | EHW | C H ((+)) |
| U079 | <u>156-60-5</u> | Ethene, ((trans-1,2-dichloro-)) 1,2-cichloro-, (E)- | EHW | D H |
| U210 | <u>127-18-4</u> | Ethene, ((1,1,2,2))tetrachloro- | EHW | C H |
| U006 | <u>75-36-5</u> | Ethanoyl chloride | EHW | C H O R |
| P101 | <u>107-12-0</u> | Ethyl cyanide | EHW | B |
| U038 | <u>510-15-6</u> | Ethyl 4,4'-dichlorobenzilate | EHW | D H |
| U114 | <u>111-54-6</u> | Ethylenebis(dithiocarbamic acid), salts and esters | EHW | B |
| U067 | <u>106-93-4</u> | Ethylene dibromide | EHW | C H |
| U077 | <u>75-34-3</u> | Ethylene dichloride | EHW | D H |
| U115 | <u>75-21-8</u> | Ethylene oxide | EHW | C I |
| P054 | <u>151-56-4</u> | Ethylenimine | EHW | B ((+)) |
| U076 | <u>75-34-3</u> | Ethylidene dichloride | EHW | D H |
| P097 | | Famphur | EHW | A |
| P056 | <u>7782-41-4</u> | Fluorine | EHW | B |
| P057 | <u>640-19-7</u> | Fluoroacetamide | EHW | B H |
| P058 | <u>62-74-8</u> | Fluoroacetic acid, sodium salt | EHW | A H |
| U122 | <u>50-00-0</u> | Formaldehyde | EHW | C |
| P065 | <u>628-86-4</u> | Fulminic acid, mercury (II) salt | EHW | R ? |
| U125 | <u>98-01-1</u> | 2-Furancarboxaldehyde | EHW | C I |
| U147 | <u>108-31-6</u> | 2,5-Furandione | EHW | C |
| U125 | <u>98-01-1</u> | Furfural | EHW | C I |
| U126 | <u>765-34-4</u> | Glycidylaldehyde | EHW | C ((+)) |
| U163 | <u>70-25-7</u> | Guanidine, ((N-nitroso-N-methyl-N'-nitro-)) N-methyl-N'-nitro-N-nitroso- | EHW | C ((+)) |
| P059 | <u>76-44-8</u> | Heptachlor | EHW | X H ((+)) |
| U127 | <u>118-74-1</u> | Hexachlorobenzene | EHW | H |
| U128 | <u>87-68-3</u> | Hexachlorobutadiene | | EHWC H |
| U129 | <u>58-89-9</u> | Hexachlorocyclohexane (gamma isomer) | EHW | H ((+)) |
| U130 | <u>77-47-4</u> | Hexachlorocyclopentadiene | EHW | X H |
| P051 | <u>72-20-8</u> | 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo, endo-1,4,5,8-dimethanophthalene | EHW | X H |
| P037 | <u>60-57-1</u> | 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo, exo-1,4,5,8-dimethanophthalene | EHW | X H ((+)) |
| U131 | <u>67-72-1</u> | Hexachloroethane | EHW | H |
| P060 | <u>465-73-6</u> | 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo, endo-dimethanonaphthalene | EHW | B H |
| P004 | <u>309-00-2</u> | 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo, exodimethanonaphthalene | EHW | B H |

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| P060 | <u>465-73-6</u> | Hexachlorohexahydro-endo, endo-dimethanonaphthalene | EHW | B H |
| U132 | <u>70-30-4</u> | Hexachlorophene | EHW | C H |
| U243 | <u>1888-71-7</u> | Hexachloropropene | EHW | H |
| P062 | <u>757-58-4</u> | Hexaethyl tetraphosphate | EHW | B |
| U133 | <u>302-01-2</u> | Hydrazine | EHW | B ((+)) R |
| P116 | <u>79-19-6</u> | Hydrazinecarbothioamide | EHW | B |
| U099 | <u>540-73-8</u> | Hydrazine, 1,2-dimethyl- | EHW | C ((+)) I |
| U109 | <u>122-66-7</u> | Hydrazine, 1,2-diphenyl- | EHW | C |
| P068 | <u>60-34-4</u> | Hydrazine, methyl- | EHW | A I |
| P063 | <u>74-90-8</u> | Hydrocyanic acid | EHW | A |
| P063 | <u>74-90-8</u> | Hydrogen cyanide | EHW | A |
| P096 | <u>7803-51-2</u> | Hydrogen phosphide | EHW | B I |
| U135 | <u>7783-06-4</u> | Hydrogen sulfide | EHW | B I |
| U096 | <u>80-15-9</u> | Hydroperoxide, 1-methyl-1-phenylethyl- | EHW | C R |
| U245 | <u>53-86-1</u> | Indomethacin | EHW | B H |
| P064 | <u>624-83-9</u> | Isocyanic acid, methyl ester | EHW | I ? |
| P060 | <u>465-73-6</u> | <u>Isodrin</u> | EHW | <u>B H</u> |
| P007 | <u>2763-96-4</u> | 3(2H)-Isoxazolone, 5-(aminomethyl)- | EHW | B |
| U142 | <u>143-50-0</u> | Kepone | EHW | X H |
| U143 | <u>303-34-4</u> | Lasiocarpine | EHW | C ((+)) |
| U144 | <u>301-04-2</u> | Lead acetate | EHW | D ((EP)) <u>TC</u> |
| U129 | <u>58-89-9</u> | Lindane | EHW | H ((+)) |
| U163 | <u>70-25-7</u> | <u>MNNG</u> | EHW | C |
| U147 | <u>108-31-6</u> | Maleic anhydride | EHW | C |
| U149 | <u>109-77-3</u> | Malononitrile | EHW | C |
| U151 | <u>7439-97-6</u> | Mercury | EHW | ((EP)) <u>TC</u> |
| P092 | <u>62-38-4</u> | Mercury, (acetato-O)phenyl- | EHW | B |
| P065 | <u>628-86-4</u> | Mercury fulminate | EHW | R ? |
| U152 | <u>126-98-7</u> | Methacrylonitrile | EHW | B I |
| U092 | <u>124-40-3</u> | Methanamine, N-methyl- | EHW | C I |
| P082 | <u>62-75-9</u> | <u>Methanamine, N-methyl-N-nitroso-</u> | EHW | ? |
| P016 | <u>542-88-1</u> | Methane, oxybis(chloro)- | EHW | B H ((+)) |
| P112 | <u>509-14-8</u> | Methane, tetranitro- | EHW | A R |
| U029 | <u>74-83-9</u> | Methane, bromo- | EHW | H |
| U045 | <u>74-87-3</u> | Methane, chloro- | EHW | H I |
| U046 | <u>107-30-2</u> | Methane, chloromethoxy- | EHW | D H ((+)) I |
| U068 | <u>74-95-3</u> | Methane, dibromo- | EHW | C H ((+)) |
| U080 | <u>75-09-2</u> | Methane, dichloro- | EHW | C H |
| U075 | <u>75-71-8</u> | Methane, dichlorodifluoro- | EHW | H |
| U138 | <u>74-88-4</u> | Methane, iodo- | EHW | H ((+)) |
| P064 | <u>624-83-9</u> | <u>Methane isocyanato-</u> | EHW | <u>C I R</u> |
| U211 | <u>56-23-5</u> | Methane, tetrachloro- | EHW | C H ((+)) |
| P118 | <u>75-70-7</u> | Methanethiol, trichloro- | EHW | H |
| U153 | <u>74-93-1</u> | Methanethiol | EHW | B I |
| U225 | <u>75-25-2</u> | Methane, tribromo | EHW | H |
| U121 | <u>75-69-4</u> | Methane, trichlorofluoro- | EHW | H |
| U044 | <u>67-66-3</u> | Methane, trichloro- | EHW | C H ((+)) |
| P050 | <u>115-29-7</u> | <u>6,9-Methano-2,4,3-benzodioxathiepin,</u> <u>6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-,3-oxide</u> | EHW | B H |
| P059 | <u>76-44-8</u> | 4,7-Methano-1H-indene, 1,4,5,6,7, 8,8-heptachloro-3a,4,7,7a-tetrahydro- | EHW | X H ((+)) |
| U036 | <u>57-74-9</u> | ((4,7-Methanoindan, 1,2,4,5,6,7,8,8-octa chloro 3a,4,7,7a tetrahydro-)) 4,7,Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro- | EHW | X H |
| U142 | <u>143-50-0</u> | <u>1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one,</u> <u>1,1a3,3a,4,5,5a,5b,6-decachlorooctahydro-</u> | EHW | C H |
| P066 | <u>16752-77-5</u> | Methomyl | EHW | B |
| U247 | <u>72-43-5</u> | <u>Methoxychlor</u> | EHW | <u>D H</u> |
| P067 | <u>75-55-8</u> | 2-Methylaziridine | EHW | B ((+)) I |
| P068 | <u>60-34-4</u> | Methyl hydrazine | EHW | A I |
| P064 | <u>624-83-9</u> | Methyl isocyanate | EHW | I ? |
| P069 | <u>75-86-5</u> | 2-Methylactonitrile | EHW | A |
| P071 | <u>298-00-0</u> | Methyl parathion | EHW | A |
| U029 | <u>74-83-9</u> | Methyl bromide | EHW | H |
| U045 | <u>74-87-3</u> | Methyl chloride | EHW | H I |
| U156 | <u>79-22-1</u> | Methyl chlorocarbonate | EHW | B H I |
| U226 | <u>71-55-6</u> | Methylchloroform | EHW | C H |
| U157 | <u>56-49-5</u> | 3-Methylcholanthrene | EHW | H P |
| U158 | <u>101-14-4</u> | 4,4'-Methylenebis(2-chloroaniline) | EHW | H ((+)) |
| U132 | <u>70-30-4</u> | 2,2'-Methylenebis(3,4,6-trichlorophenol) | EHW | C H |
| U068 | <u>74-95-3</u> | Methylene bromide | EHW | C H ((+)) |
| U080 | <u>75-09-2</u> | Methylene chloride | EHW | C H |
| U122 | <u>50-00-0</u> | Methylene oxide | EHW | C |

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| U160 | <u>1338-23-4</u> | Methyl ethyl ketone peroxide | EHW | B R |
| U138 | <u>74-88-4</u> | Methyl iodide | EHW | H ((+)) |
| U163 | <u>70-25-7</u> | N-Methyl-N'-nitro-N-nitrosoguanidine | EHW | C ((+)) R |
| U010 | <u>50-07-7</u> | Mitomycin C | EHW | B ((+)) |
| U165 | <u>91-20-3</u> | Naphthalene | EHW | B |
| U047 | <u>91-58-7</u> | Naphthalene, 2-chloro- | EHW | D H |
| U166 | <u>130-15-4</u> | 1,4-Naphthalenedione | EHW | C |
| U236 | <u>72-57-1</u> | 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-(1,1'-biphenyl)-4,4'-diyl)]-bis (azo)bis(5-amino-4-hydroxy)-, tetrasodium salt | EHW | H ((+)) |
| U166 | <u>130-15-4</u> | 1,4-Naphthoquinone | EHW | C |
| U167 | <u>134-32-7</u> | 1-((Naphthylamine))Naphthalenamine | EHW | B((+)) |
| U168 | <u>91-59-8</u> | 2-((Naphthylamine))Naphthalenamine | EHW | B ((+)) |
| U167 | <u>134-32-7</u> | alpha-((Naphthylamine))Naphthalenamine | EHW | B ((+)) |
| U168 | <u>91-59-8</u> | beta-((Naphthylamine))Naphthalenamine | EHW | B ((+)) |
| U026 | <u>494-03-1</u> | 2-((Naphthylamine))Naphthalenamine, N,N-bis(2-chloroethyl)- | EHW | H ((+)) |
| P072 | <u>86-88-4</u> | alpha-Naphthylthiourea | EHW | B |
| P073 | <u>13463-39-3</u> | Nickel carbonyl | EHW | B |
| P073 | <u>13463-39-3</u> | Nickel carbonyl Ni(CO) ₄ , (T-4)- | EHW | I |
| P074 | <u>557-19-7</u> | Nickel cyanide | EHW | D R ? |
| P074 | <u>557-19-7</u> | Nickel (II) cyanide | EHW | D R ? |
| P073 | <u>13463-39-3</u> | Nickel tetracarbonyl | EHW | B |
| P075 | <u>54-11-5</u> | Nicotine and salts | EHW | B |
| U217 | <u>10102-45-1</u> | Nitric acid, thallium(I+)salt | EHW | ? |
| P076 | <u>10102-43-9</u> | Nitric oxide | EHW | B |
| P077 | <u>100-01-6</u> | p-Nitroaniline | EHW | D ? |
| U169 | <u>98-95-3</u> | Nitrobenzene | EHW | C I |
| P078 | <u>10102-44-0</u> | Nitrogen dioxide | EHW | A |
| P076 | <u>10102-43-9</u> | Nitrogen (II) oxide | EHW | B |
| P078 | <u>10102-44-0</u> | Nitrogen (IV) oxide | EHW | A |
| P081 | <u>55-63-0</u> | Nitroglycerine | EHW | R ? |
| U170 | <u>100-02-7</u> | p-Nitrophenol | EHW | C |
| U171 | <u>79-46-9</u> | 2-Nitropropane | EHW | C I |
| U174 | <u>55-18-4</u> | N-Nitrosodiethylamine | EHW | C ((+)) |
| P082 | <u>62-75-9</u> | N-Nitrosodimethylamine | EHW | B ((+)) |
| U176 | <u>759-73-9</u> | N-Nitroso-N-ethylurea | EHW | C ((+)) |
| U177 | <u>684-93-5</u> | N-Nitroso-N-methylurea | EHW | C ((+)) |
| U178 | <u>615-53-2</u> | N-Nitroso-N-methylurethane | EHW | C ((+)) |
| P084 | <u>4549-40-0</u> | N-Nitrosomethylvinylamine | EHW | B ((+)) |
| U179 | <u>100-75-4</u> | N-Nitrosopiperidine | EHW | C ((+)) |
| U111 | <u>621-64-7</u> | N-Nitroso-n-propylamine | EHW | C ((+)) |
| P050 | <u>115-29-7</u> | 5-Norbornene-2,3,-dimethanol, 1,4,5,6,7,7-hexachloro, cyclic sulfite | EHW | X H |
| P085 | <u>152-16-9</u> | Octamethylpyrophosphoramidate | EHW | A |
| P087 | <u>20816-12-0</u> | Osmium oxide | EHW | B |
| P087 | <u>20816-12-0</u> | Osmium tetroxide | EHW | B |
| P088 | <u>145-73-3</u> | 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid | EHW | B |
| U058 | <u>62-74-8</u> | 2H-1,3,2-Oxazaphosphorine((2-bis(2-chloroethyl)amino)tetrahydro-, 2-oxide))-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide | EHW | C H I ((+)) |
| U115 | <u>75-21-8</u> | Oxirane | EHW | C I |
| U041 | <u>106-89-8</u> | Oxirane, ((2-))(chloromethyl)- | EHW | C H ((+)) I |
| P089 | <u>56-38-2</u> | Parathion | EHW | X |
| U183 | <u>608-93-5</u> | Pentachlorobenzene | EHW | H |
| U184 | <u>76-01-7</u> | Pentachloroethane | EHW | A H |
| U185 | <u>82-68-8</u> | Pentachloronitrobenzene (PCNB) | EHW | D H ((+)) |
| See | F027 | Pentachlorophenol | EHW | A H |
| U188 | <u>108-95-2</u> | Phenol | EHW | C |
| P034 | <u>131-89-5</u> | Phenol, 2-cyclohexyl-4,6-dinitro- | EHW | C |
| P048 | <u>51-28-5</u> | Phenol, 2,4-dinitro- | EHW | B |
| P047 | <u>534-52-1</u> | Phenol, 2-methyl-4,6 dinitro-, and salts | EHW | B |
| P020 | <u>88-85-7</u> | Phenol, 2,4-dinitro-6-(1-methylpropyl)- | EHW | B |
| P020 | <u>88-85-7</u> | Phenol, 2-(1-methylpropyl)-4,6-dinitro | EHW | B I |
| P009 | <u>131-74-8</u> | Phenol, 2,4,6-trinitro-, ammonium salt | EHW | R |
| U048 | <u>95-57-8</u> | Phenol, 2-chloro- | EHW | D H |
| U039 | <u>59-50-7</u> | Phenol, 4-chloro-3-methyl- | EHW | H |
| U081 | <u>120-83-2</u> | Phenol, 2,4-dichloro- | EHW | D H |
| U082 | <u>87-65-0</u> | Phenol, 2,6-dichloro- | EHW | D H |

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| U132 | 70-30-4 | Phenol, 2,2'-methylenebis[3,4,6-trichloro- | EHW | C H I |
| U170 | 100-02-7 | Phenol, 4-nitro- | EHW | C |
| See | | | | |
| F027 | 87-86-5 | Phenol, pentachloro- | EHW | A H |
| See | | | | |
| F027 | 58-90-2 | Phenol, 2,3,4,6-tetrachloro- | EHW | C H |
| See | | | | |
| F027 | 95-95-4 | Phenol, 2,4,5-trichloro- | EHW | A H |
| See | | | | |
| F027 | 88-06-2 | Phenol, 2,4,6-trichloro- | EHW | A H |
| U150 | 148-82-3 | L-Phenylalanine, 4-[bis(2-chloroethyl)amino] | EHW | B H |
| P036 | 696-28-6 | Phenyl dichloroarsine | EHW | B H |
| P092 | 62-38-4 | ((Phenylmercurio)) Phenylmercury acetate | EHW | B |
| P093 | 103-85-5 | ((N-Phenylthiourea)) Phenylthiourea | EHW | A |
| P094 | 298-02-2 | Phorate | EHW | X |
| P095 | 75-44-5 | Phosgene | EHW | B H |
| P096 | 7803-51-2 | Phosphine | EHW | B I |
| P041 | 311-45-5 | Phosphoric acid, diethyl p-nitrophenyl ester | EHW | A |
| P039 | 298-04-4 | Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester | EHW | A |
| P044 | 60-51-5 | Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester | EHW | A |
| P043 | 55-91-4 | Phosphorofluoridic acid, bis(1-methyl-ethyl)ester | EHW | B H |
| P094 | 298-02-2 | Phosphorothiac acid, O,O-diethyl S-(ethylthio)methyl ester | EHW | X |
| P097 | 52-85-7 | Phosphorothioic acid, O,O-dimethyl O-[p-(dimethylamino)-sulfonyl]phenyl]ester | EHW | A |
| P071 | 298-00-0 | Phosphorothioic acid, O,O -dimethyl O-(4-nitrophenyl) ester | EHW | B I |
| P089 | 56-38-2 | Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl)ester | EHW | X |
| P040 | 297-97-2 | Phosphorothioic acid, O,O-diethyl O-pyra-zinyl ester | EHW | A |
| U189 | 1314-80-3 | Phosphorus sulfide | EHW | B I R |
| U190 | 85-44-9 | Phthalic anhydride | EHW | C |
| U191 | 109-06-8 | 2-Picoline | EHW | C |
| U179 | 100-75-4 | Piperidine, 1-nitroso- | EHW | C |
| P110 | 78-00-2 | Plumbane, tetraethyl- | EHW | A |
| P098 | 150-50-8 | Potassium cyanide | EHW | A |
| P098 | 151-50-8 | Potassium cyanide K(CN) | EHW | B R |
| P099 | 506-61-6 | Potassium silver cyanide | EHW | A |
| P070 | 116-06-3 | Propanal, 2-methyl-2(methylthio)-O-[(methylamino)carbonyl]oxime | EHW | B |
| U194 | 107-10-8 | 1-Propanamine | EHW | C I |
| U111 | 621-64-7 | 1-Propanamine, N-nitroso-N-propyl | EHW | C |
| U110 | 142-84-7 | 1-Propanamine, N-propyl- | EHW | C I |
| U066 | 96-12-8 | Propane, 1,2-dibromo-3-chloro- | EHW | C H ((+)) |
| U149 | 109-77-3 | Propanedinitrile | EHW | C |
| P101 | 107-12-0 | Propanenitrile | EHW | B |
| P027 | 542-76-7 | Propanenitrile, 3-chloro- | EHW | B H |
| ((P079)) | | | | |
| P069 | - - | Propanenitrile, 2-hydroxy-2-methyl- | EHW | A |
| U083 | 78-87-5 | Propane, 1,2-dichloro- | EHW | D H I |
| U171 | 79-46-9 | Propane, 2-nitro- | EHW | C I |
| U027 | 108-60-1 | Propane, 2,2'oxybis[2-chloro- | EHW | C H O |
| P081 | 55-63-0 | 1,2,3-Propanetriol, trinitrate- | EHW | R ? |
| U235 | 126-72-7 | 1-Propanol, 2,3-dibromo-, phosphate (3:1) | EHW | D H |
| U126 | 765-34-4 | 1-Propanol, 2,3-epoxy- | EHW | C ((+)) |
| P017 | 598-31-2 | 2-Propanone, 1-bromo- | EHW | C H |
| P102 | 107-19-7 | Propargyl alcohol | EHW | X |
| P003 | 107-02-8 | 2-Propenal | EHW | X |
| U007 | 79-06-1 | 2-Propenamide | EHW | C |
| U084 | 542-75-6 | Propene, 1,3-dichloro- | EHW | C H |
| U243 | 1888-71-7 | 1-Propene, 1,1,2,3,3,3-hexachloro- | EHW | H |
| U009 | 107-13-1 | 2-Propenenitrile | EHW | C ((+)) I |
| U152 | 126-98-7 | 2-Propenenitrile, 2-methyl- | EHW | B I |
| U008 | 79-10-7 | 2-Propenoic acid | EHW | C O I |
| P005 | 107-18-6 | 2-Propen-1-ol | EHW | B I |
| ((See | F027 | Propionic acid, 2 (2,4,5-trichlorophenoxy)-)) | EHW | B H |
| U194 | 107-10-8 | n-Propylamine | EHW | C I |

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| U083 | <u>78-87-5</u> | Propylene dichloride | EHW | C H I |
| P067 | <u>75-55-8</u> | 1,2-Propylenimine | EHW | B ((+)) I |
| P102 | <u>107-19-7</u> | 2-Propyn-1-ol | EHW | X |
| P008 | <u>504-24-5</u> | 4-Pyridinamine | EHW | B |
| P075 | <u>54-11-5</u> | Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts | EHW | B |
| U196 | <u>110-86-1</u> | Pyridine | EHW | C I |
| U179 | <u>100-75-4</u> | Pyridine, hexahydro-N-nitroso- | EHW | C ((+)) |
| U191 | <u>109-06-8</u> | Pyridine,2-methyl- | EHW | C |
| U237 | <u>66-75-1</u> | <u>2,4-(1H,3H)-Pyrimidinedione, 5-[(bis(2-chloroethyl)amino)-</u> | <u>EHW</u> | <u>B H</u> |
| P111 | <u>107-49-3</u> | Pyrophosphoric acid, tetraethyl ester | EHW | A |
| U201 | <u>108-46-3</u> | Resorcinol | EHW | C |
| P114 | <u>12039-52-0</u> | Selenious acid, dithallium (1+) salt | <u>EHW</u> | <u>?</u> |
| U205 | <u>7488-56-4</u> | Selenium sulfide SeS2 | <u>EHW</u> | <u>C</u> |
| P103 | <u>630-10-4</u> | Selenourea | <u>EHW</u> | <u>B</u> |
| U015 | <u>115-02-6</u> | L-Serine, diazoacetate (ester) | EHW | C ((+)) |
| See | <u>F027</u> | <u>Silvex</u> | | |
| P104 | <u>506-64-9</u> | Silver cyanide | EHW | C |
| P104 | <u>506-64-9</u> | Silver cyanide AG(CN) | <u>EHW</u> | <u>C R</u> |
| ((See | <u>F027</u> | <u>Silvex</u> | <u>EHW</u> | <u>B H))</u> |
| P105 | <u>26628-22-8</u> | Sodium azide | EHW | A |
| P106 | <u>143-33-9</u> | Sodium cyanide | EHW | A |
| P106 | <u>143-33-9</u> | Sodium cyanide NA(CN) | <u>EHW</u> | <u>B R</u> |
| P107 | <u>1314-96-1</u> | Strontium sulfide | <u>EHW</u> | <u>R</u> |
| P108 | <u>57-24-9</u> | Strychnidin-10-one, and salts | EHW | B |
| P018 | <u>357-57-3</u> | Strychnidin-10-one, 2,3-dimethoxy- | EHW | A |
| P108 | <u>57-24-9</u> | Strychnine and salts | EHW | B |
| U135 | <u>7783-06-4</u> | Sulfur hydride | EHW | B I |
| U103 | <u>77-78-1</u> | Sulfuric acid, dimethyl ester | EHW | C O ((+)) |
| P115 | <u>7446-18-6</u> | Sulfuric acid, thallium (I) salt | EHW | B |
| U189 | <u>1314-80-3</u> | Sulfur phosphide | EHW | B I R |
| See | | | | |
| F027 | <u>93-76-5</u> | 2,4,5-T | EHW | B H ((+)) |
| ((See | <u>F027))</u> | | | |
| U207 | <u>95-94-3</u> | 1,2,4,5-Tetrachlorobenzene | EHW | D H |
| U208 | <u>630-20-8</u> | 1,1,1,2-Tetrachloroethane | EHW | H |
| U209 | <u>79-34-5</u> | 1,1,2,2-Tetrachloroethane | EHW | H |
| U210 | <u>127-18-4</u> | Tetrachloroethylene | EHW | C H ((+)) |
| U212 | <u>58-90-2</u> | 2,3,4,6-Tetrachlorophenol | EHW | C H |
| P109 | <u>3689-24-5</u> | Tetraethylthiopyrophosphate | EHW | A |
| P110 | <u>78-00-2</u> | Tetraethyl lead | EHW | A |
| P111 | <u>107-49-3</u> | Tetraethylpyrophosphate | EHW | A |
| P112 | <u>509-14-8</u> | Tetranitromethane | EHW | A R |
| P062 | <u>757-58-4</u> | Tetraphosphoric acid, hexaethyl ester | EHW | B |
| P113 | <u>1314-32-5</u> | Thallic oxide | EHW | B |
| P113 | <u>1314-32-5</u> | Thallium (III) oxide | EHW | B |
| P114 | <u>12039-52-0</u> | Thallium (I) selenide | EHW | C |
| P115 | <u>7446-18-6</u> | Thallium (I) sulfate | EHW | B |
| P109 | <u>3689-24-5</u> | Thiodiphosphoric acid, tetraethyl ester | <u>EHW</u> | <u>B</u> |
| P045 | <u>39196-18-6</u> | Thiofanox | <u>EHW</u> | <u>B</u> |
| P049 | <u>541-53-7</u> | Thioimidodicarbonic diamide | EHW | A |
| U153 | <u>74-93-1</u> | Thiomethanol | EHW | B I |
| P014 | <u>108-98-5</u> | Thiophenol | EHW | A |
| P116 | <u>79-19-6</u> | Thiosemicarbazide | EHW | B H ((+)) |
| U219 | <u>62-56-6</u> | Thiourea | EHW | C((+)) |
| P026 | <u>5344-82-1</u> | Thiourea, (2-chlorophenyl)- | EHW | A H |
| P072 | <u>86-88-4</u> | Thiourea, 1-naphthalenyl- | EHW | B |
| P093 | <u>103-85-5</u> | Thiourea, phenyl- | EHW | A |
| U220 | <u>108-88-3</u> | Toluene | EHW | C I |
| U223 | <u>26471-62-5</u> | Toluene diisocyanate | EHW | B R |
| P123 | <u>8001-35-2</u> | Toxaphene | EHW | X H |
| U226 | <u>71-55-6</u> | 1,1,1-Trichloroethane | EHW | C H |
| U227 | <u>79-00-5</u> | 1,1,2-Trichloroethane | EHW | C H |
| U228 | <u>79-01-6</u> | Trichloroethene | EHW | C H ((+)) |
| U228 | <u>79-01-6</u> | Trichloroethylene | EHW | C H ((+)) |
| P118 | <u>75-70-7</u> | Trichloromethanethiol | EHW | H |
| U121 | <u>75-69-4</u> | Trichloromonofluoromethane | EHW | H |
| See | | | | |
| F027 | <u>95-95-4</u> | 2,4,5-Trichlorophenol | EHW | A H |
| See | | | | |
| F027 | <u>88-06-2</u> | 2,4,6-Trichlorophenol | EHW | A H |
| U232 | <u>93-76-4</u> | 2,4,5-Trichlorophenoxy-acetic acid, salts and esters | EHW | B H((+)) |

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| U233 | <u>93-72-1</u> | 2,4,5-Trichlorophenoxy-propionic acid, salts and esters | EHW | B H((+)) |
| U234 | <u>99-35-4</u> | <u>1,3,5-Trinitrobenzene</u> | EHW | C |
| U235 | <u>126-72-7</u> | Tris(2,3-dibromopropyl) phosphate | EHW | D H |
| U236 | <u>72-57-1</u> | Trypan blue | EHW | H ((+)) |
| U237 | <u>66-75-1</u> | Uracil, 5[bis(2-chloroethyl)amino]- | EHW | B H ((+)) |
| U237 | <u>66-75-1</u> | Uracil mustard | EHW | B H ((+)) |
| U176 | <u>759-73-9</u> | Urea, N-ethyl-N-nitroso- | EHW | C |
| U176 | <u>684-93-5</u> | Urea, N-methyl-N-nitroso- | EHW | C |
| P119 | <u>7803-55-6</u> | Vanadic acid, ammonium salt | EHW | B |
| P120 | <u>1314-62-1</u> | Vanadium pentoxide | EHW | B |
| P120 | <u>1314-62-1</u> | Vanadium (V) oxide | EHW | B |
| P084 | <u>4549-40-0</u> | Vinylamine, N-methyl-N-nitroso- | EHW | B |
| U043 | <u>75-01-4</u> | Vinyl chloride | EHW | D H ((+)) |
| P001 | <u>81-81-2</u> | Warfarin | EHW | A |
| U239 | <u>1330-20-7</u> | Xylene | EHW | C I |
| P121 | <u>557-21-1</u> | Zinc cyanide | EHW | C |
| P122 | <u>1314-84-7</u> | Zinc phosphide <u>when present at concentrations greater than 10%</u> | EHW | B R |

MODERATELY DANGEROUS CHEMICAL PRODUCTS

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|------|-------------------|--|----|---------|
| U187 | <u>62-44-2</u> | Acetamide, N-(4-ethoxyphenyl)- | DW | D ((+)) |
| U005 | <u>53-96-3</u> | Acetamide, N-9H-fluoren-2-yl- | DW | ? |
| U112 | <u>141-78-6</u> | Acetic acid, ethyl ester | DW | D I |
| U214 | <u>563-68-8</u> | Acetic acid, thallium(I) salt | DW | ? |
| U002 | <u>67-64-1</u> | Acetone | DW | D I |
| U004 | <u>98-86-2</u> | Acetophenone | DW | D |
| U005 | <u>53-96-3</u> | 2-Acetylaminofluorene | DW | ? |
| U150 | <u>148-82-3</u> | Alanine, 3-[p-bis(2-chloroethyl)amino] phenyl-, L- | DW | ((+)) |
| U328 | <u>95-53-4</u> | 2-Amino-1-methylbenzene | DW | D ((+)) |
| U353 | <u>106-49-0</u> | 4-Amino-1-methylbenzene | DW | D |
| U011 | <u>61-82-5</u> | Amitrole | DW | D ((+)) |
| U136 | <u>75-60-5</u> | Arsinic acid, dimethyl- | DW | D |
| U014 | <u>492-80-8</u> | Auramine | DW | ((+)) |
| U016 | <u>225-51-4</u> | Benz[c]acridine | DW | ((+)) |
| U016 | <u>225-51-4</u> | 3,4-Benzacridine | DW | ((+)) |
| U192 | <u>23950-58-5</u> | <u>Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-</u> | DW | ? |
| U014 | <u>492-80-8</u> | Benzenamine, 4,4-carbonimidoylbenzene (N,N-dimethyl-) | DW | ((+)) |
| U328 | <u>95-53-4</u> | <u>Benzenamine, 2-methyl-</u> | DW | D |
| U353 | <u>106-49-0</u> | <u>Benzenamine, 4-methyl-</u> | DW | D |
| U222 | <u>636-21-5</u> | Benzenamine, 2-methyl-, hydrochloride | DW | D ((+)) |
| U181 | <u>99-55-8</u> | Benzenamine, 2-methyl-5-nitro | DW | D |
| U221 | <u>25376-45-8</u> | <u>Benzenediamine, ar-methyl-</u> | DW | ? |
| U028 | <u>117-81-7</u> | 1,2-Benzenedicarboxylic acid, [bis(2-ethyl-hexyl)] ester | DW | ? |
| U069 | <u>84-74-2</u> | 1,2-Benzenedicarboxylic acid, dibutyl ester | DW | D |
| U088 | <u>84-66-2</u> | 1,2-Benzenedicarboxylic acid, diethyl ester | DW | ? |
| U102 | <u>131-11-3</u> | 1,2-Benzenedicarboxylic acid, dimethyl ester | DW | ? |
| U107 | <u>117-84-0</u> | 1,2-Benzenedicarboxylic acid, di-n-octyl ester | DW | ? |
| U203 | <u>94-59-7</u> | Benzene, 1,2-methylenedioxy-4-allyl- | DW | D ((+)) |
| U141 | <u>120-58-1</u> | Benzene, 1,2-methylenedioxy-4-propenyl- | DW | D ((+)) |
| U090 | <u>94-58-6</u> | Benzene, 1,2-methylenedioxy-4-propyl- | DW | D ((+)) |
| U234 | <u>99-35-4</u> | Benzene, 1,3,5-trinitro- | DW | D R |
| U202 | <u>81-07-2</u> | 1,2-Benzisothiazilin-3-one, 1,1-dioxide, and salts | DW | ((+)) |
| U203 | <u>94-59-7</u> | <u>1,3-Benzodioxole, 5-(2-propenyl)-</u> | DW | D |
| U141 | <u>120-58-1</u> | <u>1,3-Benzodioxole, 5-(1-propenyl)-</u> | DW | D |
| U090 | <u>94-58-6</u> | <u>1,3-Benzodioxole, 5-propyl-</u> | DW | D |
| U120 | <u>206-44-0</u> | Benzo[j,k]fluorene | DW | D |
| U248 | <u>81-81-2</u> | <u>2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less</u> | DW | ? |
| U091 | <u>119-90-4</u> | (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethoxy- | DW | D ((+)) |

| | | | | |
|-----------------|-------------------|---|---------------|--------------|
| U244 | | Bis(dimethylthiocarbomoyl) disulfide | DW | D |
| U028 | <u>117-81-7</u> | Bis(2-ethoxy) phthalate | DW | ? |
| U172 | <u>924-16-3</u> | 1-Butanamine, N-butyl-N-nitroso- | DW | D ((+)) |
| U031 | <u>71-36-3</u> | 1-Butanol | DW | D I |
| U159 | <u>78-93-3</u> | 2-Butanone | DW | D I |
| U031 | <u>71-36-3</u> | n-Butyl alcohol | DW | D I |
| U136 | <u>75-60-5</u> | Cacodylic acid | DW | D |
| U238 | <u>51-79-6</u> | Carbamic acid, ethyl ester | DW | ((+)) |
| U114 | <u>111-54-6</u> | Carbamodithioic acid, 1,2-ethanediybis-, salts & esters | DW | ? |
| U215 | <u>6533-73-9</u> | Carbonic acid, dithallium(I) salt | DW | ? |
| U034 | <u>75-87-6</u> | Chloral | DW | ? |
| U051 | - - | Creosote | DW | D |
| U059 | <u>20830-81-3</u> | Daunomycin | DW | ((+)) |
| U221 | <u>25376-45-8</u> | Diaminotoluene | DW | ? |
| U069 | <u>84-74-2</u> | Dibutyl phthalate | DW | D |
| U192 | <u>23950-58-5</u> | 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl) benzamide | DW | ? |
| U024 | <u>111-19-1</u> | Dichloromethoxy ethane | DW | ? |
| U108 | <u>123-91-1</u> | 1,4-Diethylene dioxide | DW | D ((+)) |
| U028 | <u>117-81-7</u> | Diethylhexyl phthalate | DW | ? |
| U086 | <u>1615-80-1</u> | N,N-Diethylhydrazine | DW | ((+)) |
| U088 | <u>84-66-2</u> | Diethyl phthalate | DW | ? |
| U089 | <u>56-53-1</u> | Diethylstilbestrol | DW | ((+)) |
| U148 | <u>123-33-1</u> | 1,2-Dihydro-3-,6-pyridizinedione | DW | D |
| U090 | <u>94-58-6</u> | Dihydrosafrole | DW | D ((+)) |
| U091 | <u>119-90-4</u> | 3,3'-Dimethoxybenzidine | DW | D ((+)) |
| U098 | <u>57-14-7</u> | 1,1-Dimethylhydrazine | DW | ((+) I |
| U101 | <u>105-67-9</u> | 2,4-Dimethylphenol | DW | D |
| U102 | <u>131-11-3</u> | Dimethyl phthalate | DW | ? |
| U107 | <u>117-84-0</u> | Di-n-octyl phthalate | DW | ? |
| U108 | <u>123-91-1</u> | 1,4-Dioxane | DW | D ((+)) |
| U155 | <u>91-80-5</u> | 1,2-Eethanediamine, N,N-dimethyl-N'2pyridinyl-N'-(2-thienylmethyl)- | DW | ? |
| U117 | <u>60-29-7</u> | Ethane, 1,1'-oxybis- | DW | D I |
| U218 | <u>65-55-5</u> | Ethanethioamide | DW | ((+)) |
| U226 | <u>71-55-6</u> | Ethane, 1,1,1-trichloro- | DW | D |
| U173 | <u>1116-54-7</u> | Ethanol, 2,2-(nitrosoimino)bis- | DW | ((+)) |
| U359 | <u>110-80-5</u> | Ethanol, 2-ethoxy- | DW | D I |
| U004 | <u>98-86-2</u> | Ethanone, 1-phenyl- | DW | D |
| U228 | <u>79-01-6</u> | Ethene, trichloro- | DW | I |
| U112 | <u>141-78-6</u> | Ethyl acetate | DW | D I |
| U113 | <u>140-88-5</u> | Ethyl acrylate | DW | D I |
| U238 | <u>51-79-6</u> | Ethyl carbamate (urethan) | DW | ((+)) |
| U359 | <u>110-80-5</u> | Ethylene glycol monoethyl ether | DW | D I |
| U116 | <u>96-45-7</u> | Ethylene thiourea | DW | D ((+)) |
| U117 | <u>60-29-7</u> | Ethyl ether | DW | D I |
| U118 | <u>97-63-2</u> | Ethyl methacrylate | DW | I |
| U119 | <u>62-50-0</u> | Ethyl methanesulfonate | DW | ((+)) |
| U139 | cancel | Ferrie dextran | DW | I |
| U120 | <u>206-44-0</u> | Fluoranthene | DW | D |
| U123 | <u>64-18-6</u> | Formic Acid | DW | D O |
| U124 | <u>110-00-9</u> | Furan | DW | I |
| U213 | <u>109-99-9</u> | Furan, tetrahydro- | DW | I |
| U124 | <u>110-00-9</u> | Furfuran | DW | I |
| U206 | <u>18883-66-4</u> | D-Glucopyranose, 2-deoxy-2(3-methyl-3-nitrosoureido)- | DW | ((+)) |
| U206 | | D-Glucose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D- | DW | |
| U086 | <u>1615-80-1</u> | Hydraxine, 1,2-diethyl- | DW | ((+)) |
| U098 | <u>57-14-7</u> | Hydrazine, 1,1-dimethyl- | DW | ((+) I |
| U134 | <u>7664-39-3</u> | Hydrofluoric acid | DW | D O |
| U134 | <u>7664-39-3</u> | Hydrogen fluoride | DW | D O |
| U135 | <u>7783-06-4</u> | Hydrogen sulfide H2S | DW | ? |
| U136 | <u>75-60-5</u> | Hydroxydimethylarsine oxide | DW | D |
| U190 | <u>85-44-9</u> | 1,3-Ibenzofurandione | DW | D |
| U116 | <u>96-45-7</u> | 2-Imidazolidinethione | DW | D ((+)) |
| U137 | <u>193-39-5</u> | Indeno[1,2,3-cd]pyrene | DW | ((+)) |
| U139 | cancel | Iron dextran | DW | ((+)) |
| U140 | <u>78-83-1</u> | Isobutyl alcohol | DW | D I |
| U141 | <u>120-58-1</u> | Isosafrole | DW | D ((+)) |
| U146 | <u>1335-32-6</u> | Lead, bis(acetato-O)tetrahydroxytri- | DW | ? |
| U145 | <u>7446-27-7</u> | Lead phosphate | DW | ((+)) |
| U146 | <u>1335-32-6</u> | Lead subacetate | DW | ((+)) |
| U148 | <u>123-33-1</u> | Maleic hydrazide | DW | D |
| U150 | <u>148-82-3</u> | Melphalan | DW | ((+)) |

PERMANENT

PERMANENT

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|------|---|--|----|---------|
| U119 | <u>62-50-0</u> | Methanesulfonic acid, ethyl ester | DW | ((+)) |
| U123 | <u>64-18-6</u> | Methanoic acid | DW | D O |
| U154 | <u>67-56-1</u> | Methanol | DW | D I |
| U155 | <u>91-80-5</u> | Methapyrilene | DW | D |
| U154 | <u>67-56-1</u> | Methyl alcohol | DW | D I |
| U186 | <u>504-60-9</u> | 1-Methylbutadiene | DW | D I |
| U159 | <u>78-93-3</u> | Methyl ethyl ketone (MEK) | DW | D I |
| U161 | <u>108-10-1</u> | Methyl isobutyl ketone | DW | D I |
| U162 | <u>80-62-6</u> | Methyl methacrylate | DW | D I |
| U161 | <u>108-10-1</u> | 4-Methyl-2-pentanone | DW | ((+)) |
| U164 | <u>56-04-2</u> | Methylthiouracil | DW | ((+)) |
| U059 | <u>20830-81-3</u> | 5,12-Naphthacenedione, ((8S-cis)-8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-)) | | |
| | | 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)- | DW | ((+) ? |
| U172 | <u>924-16-3</u> | N-Nitrosodi-n-butylamine | DW | D ((+)) |
| U173 | <u>1116-54-7</u> | N-Nitrosodiethanolamine | DW | ((+)) |
| U180 | <u>930-55-2</u> | N-Nitrosopyrrolidine | DW | D ((+)) |
| U181 | <u>99-55-8</u> | 5-Nitro-o-toluidine | DW | D |
| U193 | <u>1120-71-4</u> | 1,2-Oxathiolane, 2,2-dioxide | DW | ((+)) |
| U126 | <u>765-34-4</u> | Oxiranecarboxyaldehyde | DW | D I |
| U182 | <u>123-63-7</u> | Paraldehyde | DW | D I |
| U186 | <u>504-60-9</u> | 1,3-Pentadiene | DW | D I |
| U161 | <u>108-10-1</u> | Pentanol, 4-methyl- | DW | D I |
| U187 | <u>62-44-2</u> | Phenacetin | DW | D((+)) |
| U101 | <u>105-67-9</u> | Phenol, 2,4-dimethyl- | DW | D |
| U052 | <u>1319-77-3</u> | Phenol, methyl- | DW | D |
| U137 | <u>193-39-5</u> | 1,10-(1,2-Phenylene)pyrene | DW | ((+)) |
| U145 | <u>7446-27-7</u> | Phosphoric acid, lead (2+) salt (2:3) | DW | ((+)) |
| U087 | <u>3288-58-2</u> | Phosphorodithioic acid, O,O-diethyl-,S-methyl ester | DW | ? |
| U192 | <u>23950-58-5</u> | Pronamide | DW | ? |
| U193 | <u>1120-71-4</u> | 1,3-Propane sultone | DW | ((+)) |
| See | | | | |
| F027 | <u>Prioponic acid, 2-(2,4,5 trichlorophenoxy)</u> | | | |
| U140 | <u>78-83-1</u> | 1-Propanol, 2-methyl- | DW | D I |
| U002 | <u>67-64-1</u> | 2-Propanone | DW | D I |
| U113 | <u>140-88-5</u> | 2-Propenoic acid, ethyl ester | DW | D I |
| U118 | <u>97-63-2</u> | 2-Propenoic acid, 2-methyl-, ethyl ester | DW | I |
| U162 | <u>80-62-6</u> | 2-Propenoic acid, 2-methyl-, methyl ester | DW | D I |
| U148 | <u>123-33-1</u> | 3,6-Pyridazinedione, 1,-dihydro- | DW | D |
| U155 | <u>91-80-5</u> | Pyridine, 2-[(2dimethylamino)ethyl]- 2-phenylamino | | |
| U164 | <u>56-04-2</u> | 4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo- | DW | ((+)) |
| U180 | <u>930-55-2</u> | ((Pyrrole, tetrahydro-N nitroso-) Pyrrolidine, 1-nitroso | DW | D ((+)) |
| U200 | <u>50-55-5</u> | Reserpine | DW | ? |
| U202 | <u>81-07-2</u> | Saccharin and salts | DW | ((+)) |
| U203 | <u>94-59-7</u> | Safrole | DW | D ((+)) |
| U204 | <u>7783-00-8</u> | Seleniousacid | DW | O |
| U204 | <u>7783-00-8</u> | Selenium dioxide | DW | O |
| U205 | <u>7488-56-4</u> | Selenium ((disulfide)) sulfide | DW | R |
| U089 | <u>56-53-1</u> | 4,4'-Stilbenediol, alpha,alpha'-diethyl- | DW | ((+)) |
| U206 | <u>18883-66-4</u> | Streptozotocin | DW | ((+)) |
| U205 | <u>7488-56-4</u> | Sulfur selenide | DW | R |
| U213 | <u>109-99-9</u> | Tetrahydrofuran | DW | I |
| U214 | <u>563-68-8</u> | Thallium(1) acetate | DW | ? |
| U215 | <u>6533-73-9</u> | Thallium(1) carbonate | DW | ? |
| U216 | <u>7791-12-0</u> | Thallium(1) chloride | DW | ? |
| U216 | <u>7791-12-0</u> | Thallium chloride TlCl | DW | ? |
| U217 | <u>10102-45-1</u> | Thallium(1) nitrate | DW | ? |
| U218 | <u>62-55-5</u> | Thioacetamide | DW | ((+)) |
| U244 | <u>137-26-8</u> | Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl- | DW | D |
| U244 | <u>137-26-8</u> | Thiram | DW | D |
| U244 | <u>137-26-8</u> | Thiran | DW | D |
| U221 | <u>25376-45-8</u> | Toluenediamine | DW | ? |
| U328 | <u>95-53-4</u> | o-Toluidine | DW | D ((+)) |

| | | | | |
|------|-----------------|--|----|---------|
| U353 | <u>106-49-0</u> | p-Toluidine | DW | D |
| U222 | <u>636-21-5</u> | o-Toluidine hydrochloride | DW | D ((+)) |
| U011 | <u>61-82-5</u> | 1H-1,2,4-Triazol-3-amine | DW | D ((+)) |
| U234 | <u>99-35-4</u> | sym-Trinitrobenzene | DW | D R |
| U182 | <u>123-63-7</u> | 1,3,5-Trioxane, 2,4,6-trimethyl- | DW | D I |
| U248 | | <u>Warfarin, & salts, when present at concentrations of 0.3% or less</u> | | |
| U200 | <u>50-55-5</u> | Yohimban-16-carboxylic acid, 11, 17-di-methoxy-18-[(3,4,5-trimethoxy-benzoyl)oxy]-,methyl ester (3beta, 16 beta, 17alpha, 18 beta, 20alpha)- | DW | ? |
| U249 | | <u>Zinc phosphide Zn3P2, when present at concentrations of 10% or less</u> | | |

- * EHW = Extremely Hazardous Waste
 DW = Dangerous Waste
 X = Toxic, Category X
 A = Toxic, Category A
 B = Toxic, Category B
 C = Toxic, Category C
 D = Toxic, Category D
 ? = Toxic, Category not determined
 H = Persistent, Halogenated Hydrocarbon
 O = Corrosive
 P = Persistent, Polycyclic Aromatic Hydrocarbon
 ((+) IARC Animal or Human, Sufficient or Limited Carcinogen)
 I = Ignitable
 R = Reactive
 ((EB)) TC = Toxicity Characteristic

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-9904 Dangerous waste sources list.

DANGEROUS WASTE SOURCES LIST

| Dangerous Waste No. | Sources |
|---------------------|---------|
|---------------------|---------|

Nonspecific Sources

Generic:

- F001 The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; and sludges from the recovery of these solvents in degreasing operations. (See footnote 1, below.)
- F002 The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro- 1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane and 1,1,2 trichloroethane; and the still bottoms from the recovery of these solvents. (See footnote 1, below.)
- F003 The following spent nonhalogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol,

- cyclohexanone, and methanol; and the still bottoms from the recovery of these solvents.
- F004 The following spent nonhalogenated solvents: Cresols and cresylic acid, nitrobenzene; and the still bottoms from the recovery of these solvents.
- F005 The following spent nonhalogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane; and the still bottoms from the recovery of these solvents.
- F006 Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
- ~~((F019 Wastewater treatment sludges from the chemical conversion coating of aluminum.))~~
- F007 Spent cyanide plating bath solutions from electroplating operations.
- F008 Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.
- F009 Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.
- F010 Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.
- F011 Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.
- F012 Quenching wastewater treatment sludges from metal heat-treating operations where cyanides are used in the process.
- F019 Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.

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- F020 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of hexachlorophene from highly purified 2,4,5-trichlorophenol.) (See footnote 2, below.)
- F021 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives. (See footnote 2, below.)
- F022 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions. (See footnote 2, below.)
- F023 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (See footnote 2, below.) (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)
- F024 Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor cleanout wastes from the production of certain chlorinated aliphatic hydrocarbons by radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (See footnote 1, below.) (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed under specific sources, below.)
- F025 Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.
- F026 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions. (See footnote 2, below.)

- F027 Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (See footnote 2, below.) (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)
- F028 Residues resulting from the incineration or thermal treatment of soil contaminated with nonspecific sources wastes F020, F021, F022, F023, F026 and F027.
- ~~((F024 Wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor cleanout wastes from the production of chlorinated aliphatic hydrocarbons, having carbon content from one to five, utilizing free radical catalyzed processes. (See footnote 1, below.) (This listing does not include light ends, spent filters and filter aids, spent desiccants, wastewater, wastewater treatment sludges, spent catalysts, and wastes listed under specific sources, below.)))~~

Specific Sources

Wood Preservation:

- K001 Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol. (See footnote 1, below.)

Inorganic Pigments:

- K002 Wastewater treatment sludge from the production of chrome yellow and orange pigments.
- K003 Wastewater treatment sludge from the production of molybdate orange pigments.
- K004 Wastewater treatment sludge from the production of zinc yellow pigments.
- K005 Wastewater treatment sludge from the production of chrome green pigments.
- K006 Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
- K007 Wastewater treatment sludge from the production of iron blue pigments.
- K008 Oven residue from the production of chrome oxide green pigments.

Organic Chemicals:

- K009 Distillation bottoms from the production of acetaldehyde from ethylene.
- K010 Distillation side cuts from the production of acetaldehyde from ethylene.
- K011 Bottom stream from the wastewater stripper in the production of acrylonitrile.
- K013 Bottom stream from the acetonitrile column in the production of acrylonitrile.

- K014 Bottoms from the acetonitrile purification column in the production of acrylonitrile.
- K015 Still bottoms from the distillation of benzyl chloride. (See footnote 1, below.)
- K016 Heavy ends or distillation residues from the production of carbon tetrachloride. (See footnote 1, below.)
- K017 Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin. (See footnote 1, below.)
- K018 Heavy ends from the fractionation column in ethyl chloride production. (See footnote 1, below.)
- K019 Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production. (See footnote 1, below.)
- K020 Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production. (See footnote 1, below.)
- K021 Aqueous spent antimony catalyst waste from fluoromethanes production. (See footnote 1, below.)
- K022 Distillation bottom tars from the production of phenol/acetone from cumene.
- K023 Distillation light ends from the production of phthalic anhydride from naphthalene.
- K024 Distillation bottoms from the production of phthalic anhydride from naphthalene.
- K093 Distillation light ends from the production of phthalic anhydride from ortho-xylene.
- K094 Distillation bottoms from the production of phthalic anhydride from ortho-xylene.
- K025 Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
- K026 Stripping still tails from the production of methyl ethyl pyridines.
- K027 Centrifuge and distillation residues from toluene diisocyanate production.
- K028 Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane. (See footnote 1, below.)
- K029 Waste from the product steam stripper in the production of 1,1,1-trichloroethane. (See footnote 1, below.)
- K095 Distillation bottoms from the production of 1,1,1-trichloroethane. (See footnote 1, below.)
- K096 Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane. (See footnote 1, below.)
- K030 Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene. (See footnote 1, below.)
- K083 Distillation bottoms from aniline production.
- K103 Process residues from aniline extraction from the production of aniline.
- K104 Combined wastewater streams generated from nitrobenzene/aniline production.
- K085 Distillation of fractionation column bottoms from the production of chlorobenzenes. (See footnote 1, below.)
- K105 Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes. (See footnote 1, below.)
- K111 Product washwaters from the production of dinitrotoluene via nitration of toluene.
- K112 Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
- K113 Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
- K114 Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
- K115 Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
- K116 Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine. (See footnote 1, below.)
- K117 Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.
- K118 Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
- K136 Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
- Explosives:**
- K044 Wastewater treatment sludges from the manufacturing and processing of explosives.
- K045 Spent carbon from the treatment of wastewater containing explosives.
- K046 Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.
- K047 Pink/red water from TNT operations.
- Inorganic Chemicals:**
- K071 Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.
- K073 Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using

graphite anodes in chlorine production. (See footnote 1, below.)

K106 Wastewater treatment sludge from the mercury cell process in chlorine production.

Petroleum Refining:

K048 Dissolved air flotation (DAF) float from the petroleum refining industry.

K049 Slop oil emulsion solids from the petroleum refining industry.

K050 Heat exchanger bundle cleaning sludge from the petroleum refining industry.

K051 API separator sludge from the petroleum refining industry.

K052 Tank bottoms (leaded) from the petroleum refining industry.

Iron and Steel:

K061 Emission control dust/sludge from the primary production of steel in electric furnaces.

K062 Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).

Pesticides:

K031 Byproduct salts generated in the production of MSMA and cacodylic acid.

K032 Wastewater treatment sludge from the production of chlordane. (See footnote 3, below.)

K033 Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane. (See footnote 3, below.)

K034 Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane. (See footnote 3, below.)

K097 Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane. (See footnote 3, below.)

K035 Wastewater treatment sludges generated in the production of creosote.

K036 Still bottoms from toluene reclamation distillation in the production of disulfoton.

K037 Wastewater treatment sludges from the production of disulfoton.

K038 Wastewater from the washing and stripping of phorate production. (See footnote 3, below.)

K039 Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate. (See footnote 3, below.)

K040 Wastewater treatment sludge from the production of phorate. (See footnote 3, below.)

K041 Wastewater treatment sludge from the production of toxaphene. (See footnote 3, below.)

K098 Untreated process wastewater from the production of toxaphene. (See footnote 3, below.)

K042 Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T. (See footnote 1, below.)

K043 2,6-Dichlorophenol waste from the production of 2,4-D. (See footnote 1, below.)

K099 Untreated wastewater from the production of 2,4-D. (See footnote 1, below.)

K123 Process wastewater (including supernates, filtrates, and wastewaters) from the production of ethylenebisdithiocarbamic acid and its salts.

K124 Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.

K125 Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.

K126 Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.

K131 Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.

K132 Spent absorbent and wastewater separator solids from the production of methyl bromide.

Primary Copper:

K064 Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.

Primary Lead:

K065 Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.

Primary Zinc:

K066 Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.

Primary Aluminum:

K088 Spent potliners from primary aluminum reduction.

Ferroalloys:

K090 Emission control dust or sludge from ferrochromium-silicon production.

K091 Emission control dust or sludge from ferrochromium production.

Secondary Lead:

K069 Emission control dust/sludge from secondary lead smelting.

K100 Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.

Veterinary Pharmaceuticals:

- K084 Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
- K101 Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
- K102 Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.

Ink Formulation:

- K086 Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.

Coking:

- K060 Ammonia still-lime sludge from coking operations.
- K087 Decanter tank tar sludge from coking operations.

Footnotes

- 1 These wastes contain or may contain halogenated hydrocarbons. Although WAC 173-303-082 states that these wastes are DW, WAC 173-303-070(5), special knowledge, requires generators who know that their waste contains greater than one percent of these listed halogenated hydrocarbons to designate their waste EHW.
- 2 For wastes listed with the dangerous waste numbers F020, F021, F022, F023, F026, or F027 the quantity exclusion limit is 2.2 lbs. (1 kg) per month or per batch.
- 3 These wastes contain or may contain X Category toxic constituents. Although WAC 173-303-082 states that these wastes are DW, WAC 173-303-070(5), special knowledge, requires generators who know that their waste contains greater than 0.1 percent of these listed toxic constituents to designate their waste EHW.

State Sources

- W001 The following wastes generated from the salvaging, rebuilding, or discarding of transformers, bushing, or capacitors which contain polychlorinated biphenyls (PCB): Cooling and insulating fluids; cores, including core papers, from unrinsed transformers and capacitors; transformers and capacitors which will no longer be used for their intended use, except for those transformers or capacitors which have been rinsed; and, rinsate from the rinsing of transformers and capacitors. For the purposes of this listing, the rinsing of PCB containing items shall be conducted as follows: First, the item is drained of all free flowing liquid; second, the item is filled with solvent and allowed to stand for at least eighteen hours; last, the item is drained thoroughly and the solvent is collected. Solvents

may include kerosene, xylene, toluene and other solvents in which PCB are readily soluble. (Note—Certain PCB wastes are excluded from this listing under WAC 173-303-071 (3)(k). The generator should check that section to determine if his PCB waste is excluded from the requirements of chapter 173-303 WAC.)

AMENDATORY SECTION (Amending Order 88-24, filed 1/4/89)**WAC 173-303-9905 Dangerous waste constituents list.**

Acetic Acid,2,4,5-trichlorophenoxy-, salts and esters (2,4,5-T, salts and esters)
 Acetonitrile [Ethanenitrile]
 Acetophenone (Ethanone, 1-phenyl)
 -(alpha-Acetylbenzyl)-4-hydroxycoumarin and salts (Warfarin)
 2-Acetylaminofluorene (Acetamide,N-9H- fluoren-2-yl-)
 Acetyl chloride (Ethanoyl chloride)
 1-Acetyl-2-thiourea (Acetamide, N-(aminothioxomethyl)-)
 Acrolein (2-Propenal)
 Acrylamide (2-Propenamamide)
 Acrylonitrile (2-Propenenitrile)
 Aflatoxins
 Aldrin (1,2,3,4,10,10-Hexachloro- 1,4,4a,5,8,8a,-hexahydro-endo,exo- 1,4:5,8-Dimethanonaphthalene)
 Allyl alcohol (2-Propen-1-ol)
Allyl chloride (1-Propane, 3-chloro)
 Aluminum phosphide
 4-Aminobiphenyl ([1,1'-Biphenyl]-4-amine)
 6-Amino-1,1a,2,8,8a,8b-hexahydro-8-(hydroxymethyl)-8a-methoxy-5-methyl- carbamate azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, (ester) (Mitomycin C)
 (Azirino[2'3':3,4]pyrrolo(1,2-a)indole-4,7- dione, 6-amino-8[
 4-Aminopyridine(4-Pyridinamine)
 Arsenic and compounds, N.O.S.*
 Barium and compounds, N.O.S.*
 Barium cyanide
 Benz[c]acridine (3,4-Benzacridine)
 Benz[a]anthracene (1,2-Benzanthracene)
 Benzene (Cyclohexatriene)
 Benzenearsonic acid (Arsonic acid, phenyl-)
 Benzene, 2-amino-1-methyl (o-Toluidine)
 Benzene, 4-amino-1-methyl (p-Toluidine)
 Benzene, dichloromethyl- (Benzal chloride)
 Benzenethiol (Thiophenol)
 Benzidine ([1,1'-Biphenyl]-4,4' diamine)
 Benzo[b]fluoranthene (2,3-Benzofluoranthene)
 Benzo[j]fluoranthene (7,8-Benzofluoranthene)
 Benzo[a]pyrene (3,4-Benzopyrene)
 p Benzoquinone (1,4-Cyclohexadienedione)
 Benzotrichloride (Benzene, trichloromethyl-)
 Benzyl chloride (Benzene, (chloromethyl)-)
 Beryllium and compounds, N.O.S.*

- Bis(2-chloroethoxy)methane (Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-])
- Bis(2-chloroethyl) ether (Ethane, 1,1'-oxybis[2-chloro-])
- N,N-Bis(2-chloroethyl)-2-naphthylamine (Chlornaphazine)
- Bis(2-chloroisopropyl) ether (Propane, 2,2'-oxybis[2-chloro-])
- Bis(chloromethyl) ether (Methane, oxybis[chloro-])
- Bis(2-ethylhexyl) phthalate (1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester)
- Bromoacetone (2-Propanone, 1-bromo-)
- Bromomethane (Methyl bromide)
- 4-Bromophenyl phenyl ether (Benzene, 1-bromo-4-phenoxy-)
- Brucine (Strychnidin-10-one, 2,3-dimethoxy-)
- 2-Butanone peroxide (Methyl ethyl ketone, peroxide)
- Butyl benzyl phthalate (1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester)
- 2-sec-Butyl-4,6-dinitrophenol (DNBP) (Phenol, 2,4-dinitro-6-(1-methylpropyl)-)
- Cadmium and compounds, N.O.S.*
- Calcium chromate (Chromic acid, calcium salt)
- Calcium cyanide
- Carbamic Acid, ethyl ester
- Carbon disulfide (Carbon bisulfide)
- Carbon oxyfluoride (Carbonyl fluoride)
- Chloral (Acetaldehyde, trichloro-)
- Chlorambucil (Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene-)
- Chlordane (alpha and gamma isomers) (4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3,4,7,7a-tetrahydro-) (alpha and gamma isomers)
- Chlorinated benzenes, N.O.S.*
- Chlorinated ethane, N.O.S.*
- Chlorinated fluorocarbons, N.O.S.*
- Chlorinated naphthalene, N.O.S.*
- Chlorinated phenol, N.O.S.*
- Chloroacetaldehyde (Acetaldehyde, chloro-)
- Chloroalkyl ethers, N.O.S.*
- p-Chloroaniline (Benzenamine, 4-chloro-)
- Chlorobenzene (Benzene, chloro-)
- Chlorobenzilate (Benzenoacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-,ethyl ester)
- 2-Chloro-1,3-butadiene
- p-Chloro-m-cresol (Phenol, 4-Chloro-3-methyl)
- 1-Chloro-2,3-epoxypropane (Oxirane, 2-(chloromethyl)-)
- 2-Chloroethyl vinyl ether (Ethene, (2-chloroethoxy)-)
- Chloroform (Methane, trichloro-)
- Chloromethane (Methyl chloride)
- Chloromethyl methyl ether (Methane, chloromethoxy-)
- 2-Chloronaphthalene (Naphthalene, beta-chloro-)
- 2-Chlorophenol (Phenol, o-chloro-)
- 1-(o-Chlorophenyl)thiourea (Thiourea, (2-chlorophenyl)-)
- 3-Chloropropene
- 3-Chloropropionitrile (Propanenitrile, 3-chloro-)
- Chromium and compounds, N.O.S.*
- Chrysene (1,2-Benzphenanthrene)
- Citrus red No. 2 (2-Naphthol, 1-[(2,5-dimethoxyphenyl)azo]-)
- Coal tars
- Copper cyanide
- Creosote (Creosote, wood)
- Cresols (Cresylic acid) (Phenol, methyl-)
- Crotonaldehyde (2-Butenal)
- Cyanides (soluble salts and complexes), N.O.S.*
- Cyanogen (Ethanedinitrile)
- Cyanogen bromide (Bromine cyanide)
- Cyanogen chloride (Chlorine cyanide)
- Cycasin (beta-D-Glucopyranoside, (methyl-ONN-azoxy)methyl-)
- 2-Cyclohexyl-4,6-dinitrophenol (Phenol, 2-cyclohexyl-4,6-dinitro-)
- Cyclophosphamide (2H-1,3,2-Oxazaphosphorine, [bis(2-chloroethyl)amino]-tetrahydro-, 2-oxide)
- Daunomycin (5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxohexopyranosyl]oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-)
- DDD (Dichlorodiphenyldichloroethane) (Ethane, 1,1-dichloro-2,2-bis(p chlorophenyl)-)
- DDE (Ethylene, 1,1-dichloro-2,2-bis(4-chlorophenyl)-)
- DDT (Dichlorodiphenyltrichloroethane) (Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)-)
- Diallate (S-(2,3-dichloroallyl) diisopropylthiocarbamate)
- Dibenz[a,h]acridine (1,2,5,6-Dibenzacridine)
- Dibenz[a,j]acridine (1,2,7,8-Dibenzacridine)
- Dibenz[a,h]anthracene (1,2,5,6-Dibenzanthracene)
- 7H-Dibenzo[c,g]carbazole (3,4,5,6-Dibenzcarbazole)
- Dibenzo[a,e]pyrene (1,2,4,5-Dibenzpyrene)
- Dibenzo[a,h]pyrene (1,2,5,6-Dibenzpyrene)
- Dibenzo[a,i]pyrene (1,2,7,8-Dibenzpyrene)
- 1,2-Dibromo-3-chloropropane (Propane, 1,2-dibromo-3-chloro-)
- 1,2-Dibromoethane (Ethylene dibromide)
- Dibromomethane (Methylene bromide)
- Di-n-butyl phthalate (1,2-Benzenedicarboxylic acid, dibutyl ester)
- o-Dichlorobenzene (Benzene, 1,2-dichloro-)
- m-Dichlorobenzene (Benzene, 1,3-dichloro-)
- p-Dichlorobenzene (Benzene, 1,4-dichloro-)
- Dichlorobenzene, N.O.S.* (Benzene, dichloro-, N.O.S.*)
- 3,3'-Dichlorobenzidine ([1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-)
- 1,4-Dichloro-2-butene (2-Butene, 1,4-Butene, 1,4-dichloro-)
- Dichlorodifluoromethane (Methane, dichlorodifluoro-)
- 1,1-Dichloroethane (Ethylidene dichloride)
- 1,2-Dichloroethane (Ethylene dichloride)
- trans-1,2-Dichloroethene (1,2-Dichloroethylene)
- Dichloroethylene, N.O.S.* (Ethene, dichloro-, N.O.S.*)
- 1,1-Dichloroethylene (Ethene, 1,1-dichloro-)
- Dichloromethane (Methylene chloride)
- 2,4-Dichlorophenol (Phenol, 2,4-dichloro-)
- 2,6-Dichlorophenol (Phenol, 2,6-dichloro-)

- 2,4-Dichlorophenoxyacetic acid (2,4-D), salts and esters (Acetic acid, 2,4-dichlorophenoxy-, salts and esters)
- Dichlorophenylarsine (Phenyl dichloroarsine)
- Dichloropropane, N.O.S.* (Propane, dichloro-, N.O.S.*)
- 1,2-Dichloropropane (Propylene dichloride)
- Dichloropropanol, N.O.S.* (Propanol, dichloro-, N.O.S.*)
- Dichloropropene, N.O.S.* (Propene, dichloro-, N.O.S.*)
- 1,3-Dichloropropene (1-Propene, 1,3-dichloro-)
- Dieldrin (1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octa-hydro-endo, exo-1,4:5,8-Dimethanonaphthalene)
- 1,2:3,4-Diepoxybutane (2,2'-Bioxirane)
- Diethylarsine (Arsine, diethyl-)
- N,N'-Diethylhydrazine (Hydrazine, 1,2-diethyl)
- O,O-Diethyl S-methyl ester of phosphorodithioic acid (Phosphorodithioic acid, O,O-diethyl S-methyl ester)
- O,O-Diethylphosphoric acid, O-p-nitrophenyl ester (Phosphoric acid, diethyl p-nitrophenyl ester)
- Diethyl phthalate (1,2-Benzenedicarboxylic acid, diethyl ester)
- O,O-Diethyl O-2-pyrazinyl phosphorothioate (Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester)
- Diethylstilbesterol (4,4'-Stilbenediol, alpha,alpha-diethyl, bis(dihydrogen phosphate, (E)-)
- Dihydrosafrole (Benzene, 1,2-methylenedioxy-4-propyl-)
- 3,4-Dihydroxy-alpha-(methylamino)methyl benzyl alcohol (1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-)
- Diisopropylfluorophosphate (DFP) (Phosphorofluoridic acid, bis(1-methylethyl) ester)
- Dimethoate (Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester)
- 3,3'-Dimethoxybenzidine ([1,1'-Biphenyl]-4,4'-diamine, 3-3'-dimethoxy-)
- p-Dimethylaminoazobenzene (Benzenamine, N,N-dimethyl-4-(phenylazo)-)
- 7,12-Dimethylbenz[a]anthracene (1,2-Benzanthracene, 7,12-dimethyl-)
- 3,3'-Dimethylbenzidine ([1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-)
- Dimethylcarbamoyl chloride (Carbamoyl chloride, dimethyl-)
- 1,1-Dimethylhydrazine (Hydrazine, 1,1-dimethyl-)
- 1,2-Dimethylhydrazine (Hydrazine, 1,2-dimethyl-)
- 3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino) carbonyl]oxime (Thiofanox)
- alpha,alpha-Dimethylphenethylamine (Ethanamine, 1,1-dimethyl-2-phenyl)
- 2,4-Dimethylphenol (Phenol, 2,4-dimethyl-)
- Dimethyl phthalate (1,2-Benzenedicarboxylic acid, dimethyl ester)
- Dimethyl sulfate (Sulfuric acid, dimethyl ester)
- Dinitrobenzene, N.O.S.* (Benzene, dinitro-, N.O.S.*)
- 4,6-Dinitro-o-cresol and salts (Phenol, 2,4-dinitro-6-methyl-, and salts)
- 2,4-Dinitrophenol (Phenol, 2,4-dinitro-)
- 2,4-Dinitrotoluene (Benzene, 1-methyl-2,4-dinitro-)
- 2,6-Dinitrotoluene (Benzene, 1-methyl-2,6-dinitro-)
- Di-n-octyl phthalate (1,2-Benzenedicarboxylic acid, dioctyl ester)
- 1,4-Dioxane (1,4-Diethylene oxide)
- Diphenylamine (Benzenamine, N-Phenyl-)
- 1,2-Diphenylhydrazine (Hydrazine, 1,2-diphenyl-)
- Di-n-propylmitrosamine (N-Nitroso-di-n-propylamine)
- Disulfoton (O,O-diethyl S-[2-(ethylthio)ethyl] phosphorodithioate)
- 2,4-Dithiobiuret (Thioimidodicarbonic diamide)
- Endosulfan (5-Norbornene, 2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite)
- Endrin and metabolites (1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene, and metabolites)
- Ethyl carbamate (Urethan) (Carbamic acid, ethyl ester)
- Ethyl cyanide (propanenitrile)
- Ethylenebisdithiocarbamic acid, salts and esters (1,2-Ethanediylobiscarbamodithioic acid, salts and esters.
- Ethylene glycol monoethyl ether (2-Ethoxyethanol)
- Ethyleneimine (Aziridine)
- Ethylene oxide (Oxirane)
- Ethylenethiourea (2-Imidazolidinethione)
- Ethylmethacrylate (2-Propenoic acid, 2-methyl-, ethyl ester)
- Ethyl methanesulfonate (Methanesulfonic acid, ethyl ester)
- Fluoranthene (Benzo[j,k]fluorene)
- Fluorine
- 2-Fluoroacetamide (Acetamide, 2-fluoro-)
- Fluoroacetic acid, sodium salt (Acetic acid, fluoro-, sodium salt)
- Formaldehyde (Methylene, oxide)
- Formic acid (Methanoic acid)
- Glycidylaldehyde (1-Propanol-2,3-epoxy)
- Halomethane, N.O.S.*
- Heptachlor (4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-)
- Heptachlor epoxide (alpha, beta, and gamma isomers) (4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7-tetrahydro-, alpha, beta and gamma isomers)
- Hexachlorobenzene (Benzene, hexachloro-)
- Hexachlorobutadiene (1,3-Butadiene, hexachloro-)
- Hexachlorocyclohexane (all isomers) (Lindane and isomers)
- Hexachlorocyclopentadiene (1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-)
- Hexachlorodibenzo-p-dioxins
- Hexachlorodibenzofurans
- Hexachloroethane (Ethane, hexachloro-)
- 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,endo-dimethanonphthalene (Hexachlorohexahydro-endo,endo-dimethanonaphthalene)

- Hexachlorophene (2,2'-Methylenebis(3,4,6-trichlorophenol))
- Hexachloropropene (Propene, hexachloro-)
- Hexaethyl tetraphosphate (Tetraphosphoric acid, hexaethyl ester)
- Hydrazine (Diamine)
- Hydrocyanic acid (Hydrogen cyanide)
- Hydrofluoric acid (Hydrogen fluoride)
- Hydrogen sulfide (Sulfur hydride)
- Hydroxydimethylarsine oxide (Cacodylic acid)
- Indeno(1,2,3-cd)pyrene (1,10-(1,2-phenylene)pyrene)
- Iodomethane (Methyl iodide)
- Iron Dextran (Ferric dextran)
- Isocyanic acid, methyl ester (Methyl isocyanate)
- Isobutyl alcohol (1-Propanol, 2-methyl-)
- Isosafrole (Benzene, 1,2-methylenedioxy-4-allyl-)
- Kepone (Decachlorooctahydro-1,3,4-Methano-2H-cyclobuta[cd]pentalene-2-one)
- Lasiocarpine (2-Butanoic acid, 2-methyl-,7-[(2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy)methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester)
- Lead and compounds, N.O.S.*
- Lead acetate (Acetic acid, lead salt)
- Lead phosphate (Phosphoric acid, lead salt)
- Lead subacetate (Lead, bis(acetato-O)tetrahydroxytri-)
- Maleic anhydride (2,5-Furandione)
- Maleic hydrazide (1,2-Dihydro-3,6-pyridazinedione)
- Malononitrile (Propanedinitrile)
- Melphalan (Alanine, 3-[p-bis(2-chloroethyl)amino]phenyl-,L-)
- Mercury Fulminate (Fulminic acid, mercury salt)
- Mercury and compounds, N.O.S.*
- Methacrylonitrile (2-Propenenitrile, 2-methyl-)
- Methanethiol (Thiomethanol)
- Methapyrilene (Pyridine, 2-[(2-dimethylamino)ethyl]-2-thenylamino-)
- Metholonyl (Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-,methyl ester)
- Methoxychlor (Ethane, 1,1,1-trichloro-2,2'-bis(p-methoxyphenyl)-)
- 2-Methylaziridine (1,2-Propylenimine)
- 3-Methylcholanthrene (Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-)
- Methyl chlorocarbonate (Carbonochloridic acid, methyl ester)
- 4,4'-Methylenebis(2-chloroaniline) (Benzenamine, 4,4'-methylenebis-(2-chloro-)
- Methyl ethyl ketone (MEK) (2-Butanone)
- Methyl hydrazine (Hydrazine, methyl-)
- 2-Methylactonitrile (Propanenitrile, 2-hydroxy-2-methyl-)
- Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)
- Methyl methanesulfonate (Methanesulfonic acid, methyl ester)
- 2-Methyl-2-(methylthio)propionaldehyde-o-(methylcarbonyl) oxime
- N-Methyl-N'-nitro-N-nitrosoguanidine (Guanidine, N-nitros-N-methyl-N' nitro-)
- Methyl parathion (O,O-dimethyl O-(4-nitrophenyl) phosphorothioate)
- Methylthiouracil (4-1H-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-)
- Mustard gas (Sulfide, bis(2-chloroethyl)-)
- Naphthalene
- 1,4-Naphthoquinone (1,4-Naphthalenedione)
- 1-Naphthylamine (alpha-Naphthylamine)
- 2-Naphthylamine (beta-Naphthylamine)
- 1-Naphthyl-2-thiourea (Thiourea, 1-naphthalenyl-)
- Nickel and compounds, N.O.S.*
- Nickel carbonyl (Nickel tetracarbonyl)
- Nickel cyanide (nickel (II) cyanide)
- Nicotine and salts, Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts)
- Nitric oxide (Nitrogen (II) oxide)
- p-Nitroaniline (Benzenamine, 4-nitro-)
- Nitrobenzene (Benzene, nitro-) Nitrobenzene
- Nitrogen dioxide (Nitrogen (IV) oxide)
- Nitrogen mustard and hydrochloride salt (Ethanamine, 2-chloro-, N-(2-chloroethyl)-N-methyl-, and hydrochloride salt)
- Nitrogen mustard N-Oxide and hydrochloride salt (Ethanamine, 2-chloro-, N-(2-chloroethyl)-N-methyl-, N-oxide, and hydro-chloride salt)
- Nitroglycerine (1,2,3-Propanetriol, trinitrate)
- 4-Nitrophenol (Phenol, 4-nitro-)
- 2-Nitropropane (Propane 2-nitro)
- 4-Nitroquinoline-1-oxide (Quinoline, 4-nitro-1-oxide-)
- Nitrosamine, N.O.S.*
- N-Nitrosodi-n-butylamine (1-Butanamine, N-butyl-N-nitroso-)
- N-Nitrosodiethanolamine (Ethanol, 2,2'-(nitrosoimino)bis-)
- N-Nitrosodiethylamine (Ethanamine, N-Ethyl-N-nitroso-)
- N-Nitrosodimethylamine (Dimethylnitrosamine)
- N-Nitroso-N-ethylurea (Carbamide, N-ethyl-N-nitroso-)
- N-Nitrosomethylethylamine (Ethanamine, N-methyl-N-nitroso-)
- N-Nitroso-N-methylurea (Carbamide, N-methyl-N-nitroso-)
- N-Nitroso-N-methylurethane (Carbamic acid, methylnitroso-, ethyl ester)
- N-Nitrosomethylvinylamine (Ethenamine, N-methyl-N-nitroso-)
- N-Nitrosomorpholine (Morpholine, N-nitroso-)
- N-Nitrosornicotine (Nornicotine, N-nitroso-)
- N-Nitrosopiperidine (Pyridine, hexahydro-, N-nitroso-)
- N-Nitrosopyrrolidine (pyrrole, tetrahydro-, N-nitroso-)
- N-Nitrososarcosine (Sarcosine, N-nitroso-)
- 5-Nitro-o-toluidine (Benzenamine, 2-methyl-5-nitro-)
- Octamethylpyrophosphoramidate (Diphosphoramidate, octamethyl-)
- Osmium tetroxide (Osmium (VIII) oxide)
- 7-OCabicyclo[2.2.1]heptane-2,3-dicarbonylic acid (Endothal)
- Paraldehyde (1,3,5-Trioxane, 2,4,6-trinethyl-)
- Parathion (Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester)
- Pentachlorobenzene (Benzene, pentachloro-)
- Pentachlorodibenzo-p-dioxins
- Pentachlorodibenzofurans

- Pentachloroethane (Ethane, pentachloro-)
 Pentachloronitrobenzene (PCNB) (Benzene, pentachloronitro-)
 Pentachlorophenol (Phenol, pentachloro-)
 Perchloromethyl mercaptan (Methanesulferryl chloride, trichloro-)
 Phenacetin (Acetamide, N-(4-ethoxyphenyl)-)
 Phenol (Benzene, hydroxy-)
 Phenylenediamine (Benzenediamine)
 Phenylmercury acetate (Mercury, acetatophenyl-)
 N-Phenylthiourea (Thiourea, phenyl-)
 Phosgene (Carbonyl chloride)
 Phosphine (Hydrogen phosphide)
 Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester (Phorate)
 Phosphorothioic acid, O,O-dimethyl O-[p-((dimethylamino)sulfonyl)phenyl] ester (Famphur)
 Phthalic acid esters, N.O.S.* (Benzene, 1,2-dicarboxylic acid, esters, N.O.S.*
 Phthalic anhydride (1,2-Benzenedicarboxylic acid anhydride)
 2-Picoline (Pyridine, 2-methyl-)
 Polychlorinated biphenyl, N.O.S.*
 Potassium cyanide
 Potassium silver cyanide (Argentate(1-), dicyano-, potassium)
 Pronamide (3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide)
 1,3-Propanesultone (1,2-Oxathiolane, 2,2-dioxide)
 Propionic acid, 2-(2,4,5-trichlorophenoxy), salts and esters (2,4,5-TP, Silvex, salts and esters)
 n-Propylamine (1-Propane)
 Propylthiouracil (2,3 dihydro-6-propyl-2 thioxo-4(1H)-pyrimidinone)
 2-Propyn-1-ol (Propargyl alcohol)
 Pyridine
 Reserpine (Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester)
 Resorcinol (1,3-Benzenediol)
 Saccharin and salts (1,2-Benzoisothiazolin-3-one, 1,1-dioxide, and salts)
 Safrol (Benzene, 1,2-methylenedioxy-4-allyl-)
 Selenious acid (Selenium dioxide)
 Selenium and compounds, N.O.S.*
 Selenium sulfide (Sulfur selenide)
 Selenourea (Carbamimidoseleonic acid)
 Silver and compounds, N.O.S.*
 Silver cyanide
 Sodium cyanide
 Streptozotocin (D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-)
 Strontium sulfide
 Strychnine and salts (Strychnidin-10-one, and salts)
 1,2,4,5-Tetrachlorobenzene (Benzene, 1,2,4,5-tetrachloro-)
 Tetrachlorodibenzo-p-dioxins
 Tetrachlorodibenzofurans
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Dibenzo-p-dioxin, 2,3,7,8-tetrachloro-)
 Tetrachloroethane, N.O.S.* (Ethane, tetrachloro-, N.O.S.*)
 1,1,1,2-Tetrachlorethane (Ethane, 1,1,1,2-tetrachloro-)
 1,1,2,2-Tetrachlorethane (Ethane, 1,1,2,2-tetrachloro-)
 Tetrachlorethylene (Ethene, 1,1,2,2-tetrachloro-)¹
 Tetrachloromethane (Carbon tetrachloride)
 2,3,4,6-Tetrachlorophenol (Phenol, 2,3,4,6-tetrachloro-)
 Tetraethyldithiopyrophosphate (Dithiopyrophosphoric acid, tetraethyl-ester)
 Tetraethyl lead (Plumbane, tetraethyl-)
 Tetraethylpyrophosphate (Pyrophosphoric acid, tetraethyl ester)
 Tetranitromethane (Methane, tetranitro-)
 Thallium and compounds, N.O.S.*
 Thallic oxide (Thallium (III) oxide)
 Thallium (I) acetate (Acetic acid, thallium (I) salt)
 Thallium (I) carbonate (Carbonic acid, dithallium (I) salt)
 Thallium (I) chloride
 Thallium (I) nitrate (Nitric acid, thallium (I) salt)
 Thallium selenite
 Thallium (I) sulfate (Sulfuric acid, thallium (I) salt)
 Thioacetamide (Ethanethioamide)
 Thiosemicarbazide (Hydrazinecarbothioamide)
 Thiourea (Carbamide thio-)
 Thiuram (Bis(dimethylthioucarbonyl) disulfide)
 Toluene (Benzene, methyl-)
 Toluenediamine, N.O.S. (Toluene, 2,5-diamine-)
 2,4-Toluenediamine
 2,6-Toluenediamine
 3,4-Toluenediamine
 o-Toluidine hydrochloride (Benzenamine, 2-methyl-, hydrochloride)
 Tolyene diisocyanate (Benzene, 2,4- and 2,6-diisocyanato-methyl-)
 Toxaphene (Camphene, octachloro-)
 Tribromomethane (Bromoform)
 1,2,4-Trichlorobenzene (Benzene, 1,2,4-trichloro-)
 1,1,1-Trichloroethane (Methyl chloroform)
 1,1,2-Trichloroethane (Ethane, 1,1,2-trichloro-)
 Trichloroethene (Trichloroethylene)
 Trichloromonofluoromethane (Methane, trichlorofluoro-)
 2,4,5-Trichlorophenol (Phenol, 2,4,5-trichloro-)
 2,4,6-Trichlorophenol (Phenol, 2,4,6-trichloro-)
 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T, salts and esters) (Acetic acid, 2,4,5-trichlorophenoxy-, salts and esters)
 2,4,5-Trichlorophenoxypropionic acid (Propionic acid, 2-(2,4,5-trichlorophenoxy), salts and esters) (2,4,5-TP, Silvex, salts and esters)
 Trichloropropane, N.O.S.* (Propane, trichloro-, N.O.S.*)
 1,2,3-Trichloropropane (Propane, 1,2,3-trichloro-)
 O,O,O-Triethyl phosphorothioate (Phosphorothioic acid, O,O,O-triethyl ester)
 sym-Trinitrobenzene (Benzene, 1,3,5-trinitro-)
 Tris(1-aziridinyl) phosphine sulfide (Phosphine sulfide, tris(1-aziridinyl-))
 Tris(2,3-dibromopropyl) phosphate (1-Propanol, 2,3-dibromo-, phosphate)
 Trypan blue (2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl(1,1'-biphenyl)-4,4'-

diyl)bis(azo)]bis(5-amino-4-hydroxy-, tetrasodium salt)
 Undecamethylenediamine, N,N'-bis-(2-chloro-benzyl)-,dihydrochloride N,N'-Undecamethyl-enebis(2-chlorobenzylamine, dihydrochloride)
 Uracil mustard (Uracil 5-[bis(2-chlorethyl)amino]-)
 Vanadic acid, ammonium salt (ammonium vanadate)
 Vanadium pentoxide (Vanadium (V) oxide)

Vinyl chloride (Ethane, chloro-)
 Zinc cyanide
 Zinc phosphide

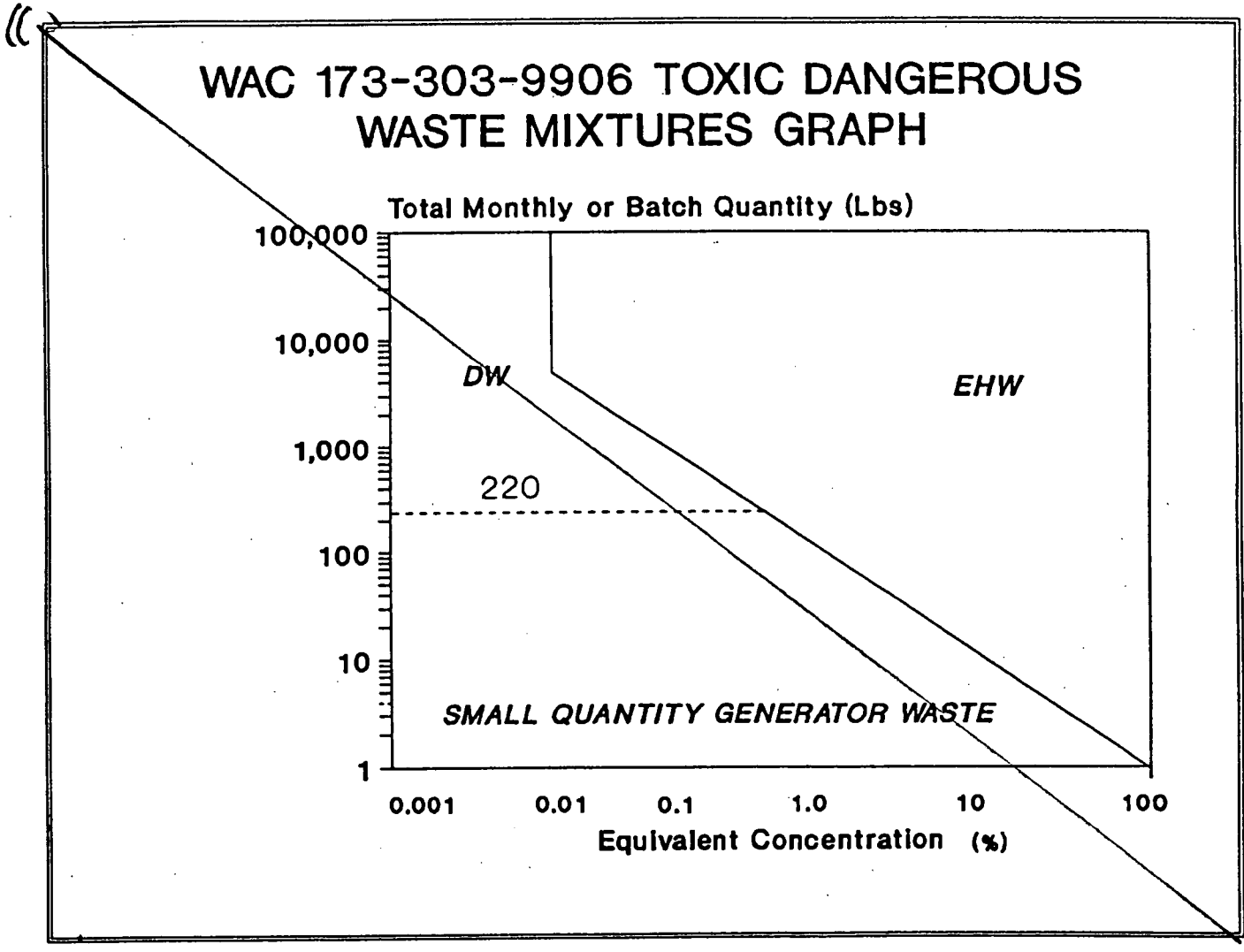
* The abbreviation N.O.S. signifies those members of the general class "not otherwise specified" by name in this listing.

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

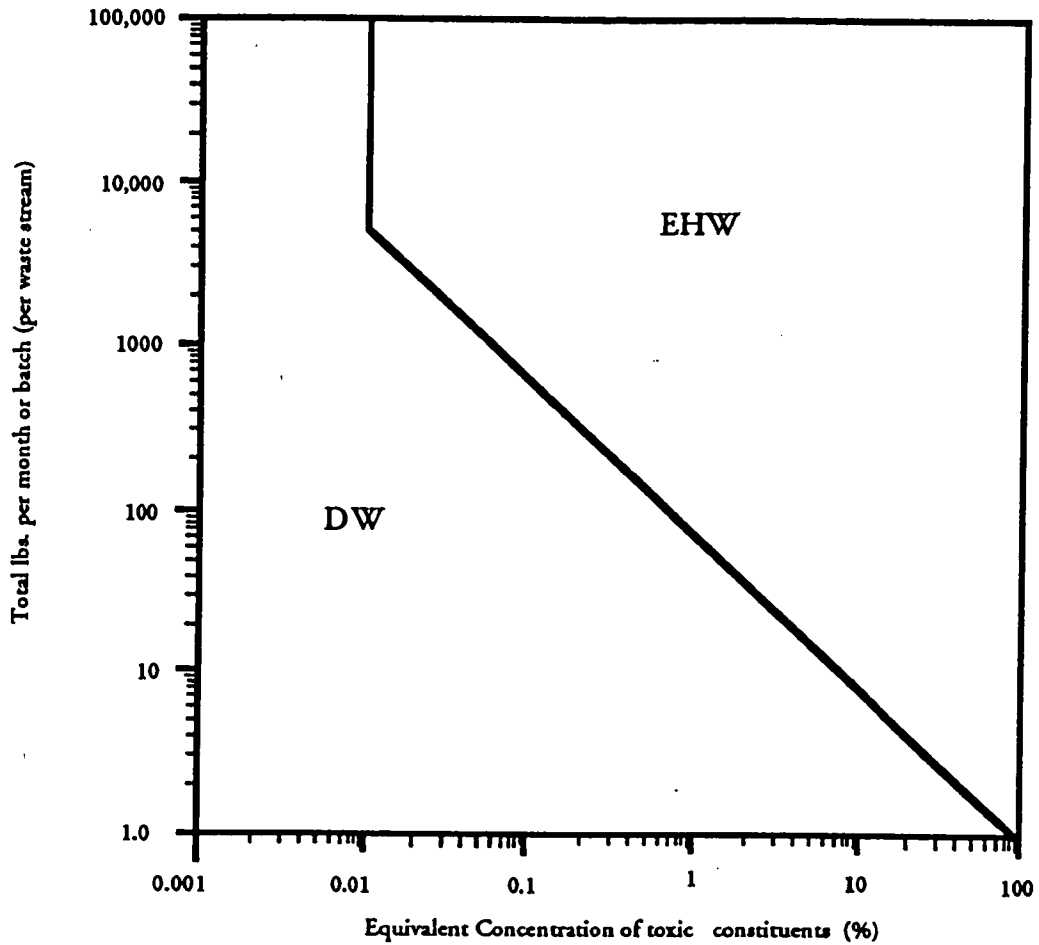
AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-9906 Toxic dangerous waste mixtures graph.

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WAC 173-303-9906 : Toxic Dangerous Waste Criteria Graph



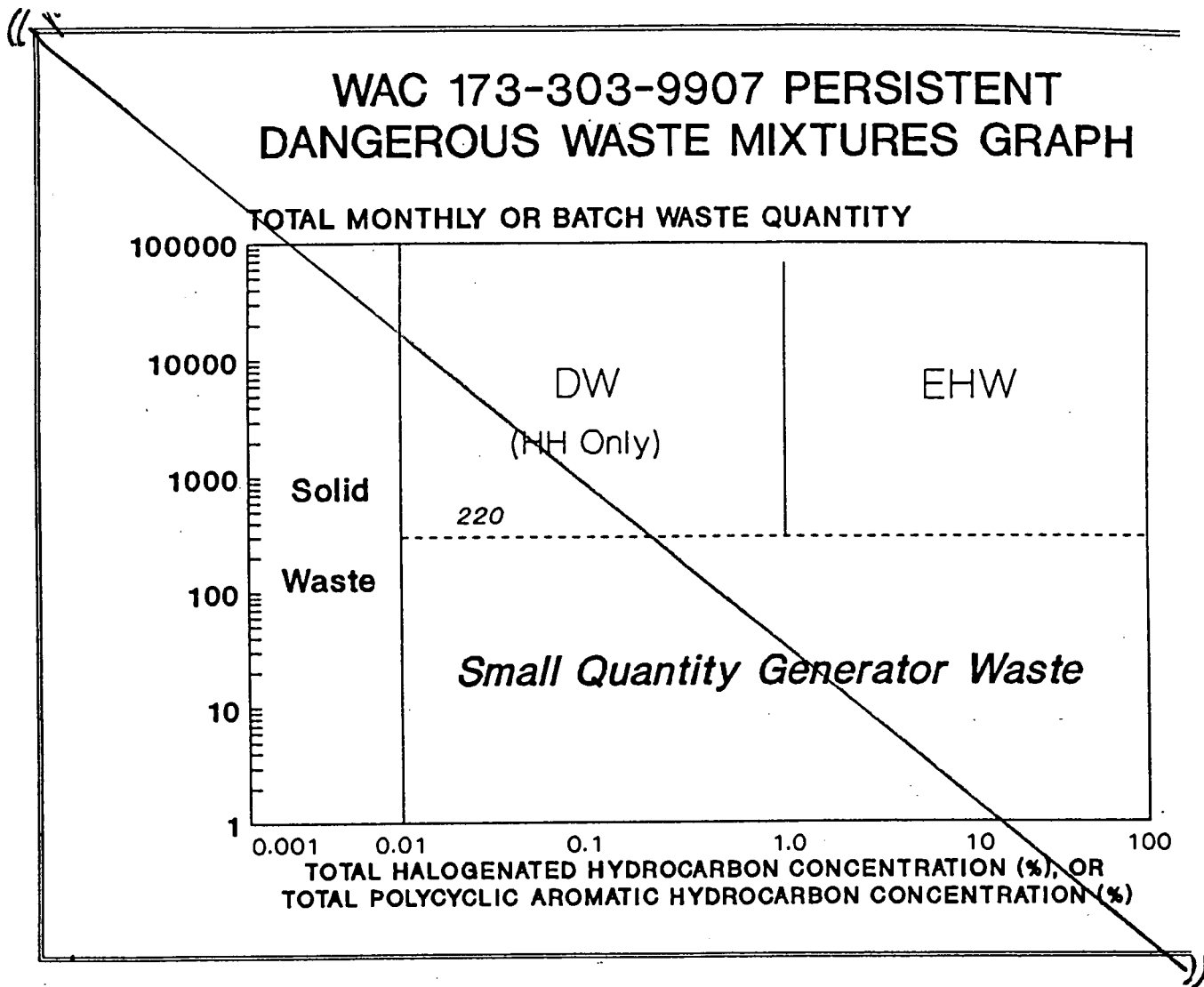
Note: The above graph should be used to determine whether a toxic waste (WAC 173-303-100(5)) is a dangerous waste (DW) or an extremely hazardous waste (EHW).

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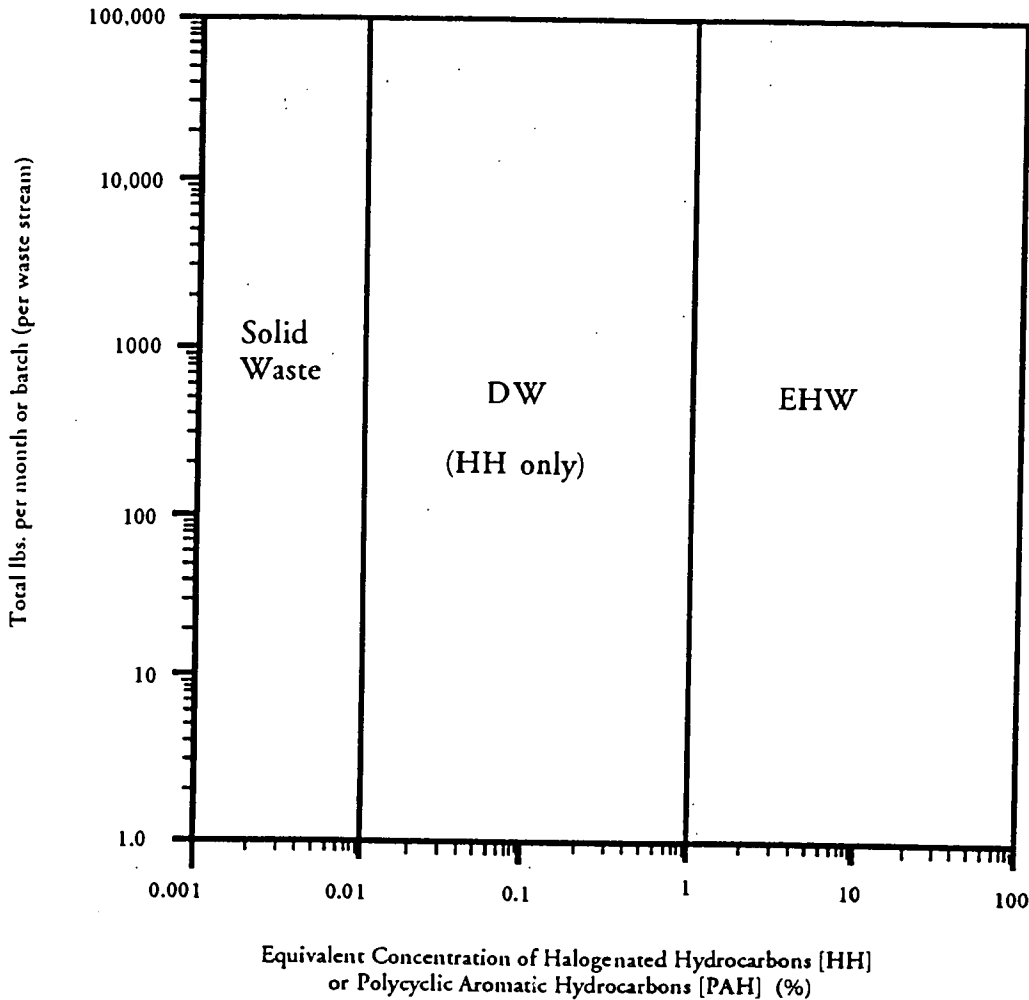
AMENDATORY SECTION (Amending Order 90-42, filed 3/7/91, effective 4/7/91)

WAC 173-303-9907 Persistent dangerous waste mixtures graph.

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WAC 173-303-9907 : Persistent Dangerous Waste Graph



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WSR 94-01-065
PERMANENT RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
 (Public Assistance)
 [Order 3679—Filed December 8, 1993, 3:26 p.m.]

Date of Adoption: December 8, 1993.

Purpose: Sets limits on speech, occupational, and physical therapy and deletes the need for approval up to these limits. Establishes limits on the number of therapy sessions that a client may receive without the need for prior approval.

Citation of Existing Rules Affected by this Order: Amending WAC 388-86-073 Occupational therapy, 388-86-090 Physical therapy, and 388-86-098 Speech therapy services.

Statutory Authority for Adoption: RCW 74.08.090.

Pursuant to notice filed as WSR 93-22-048 on October 28, 1993.

Effective Date of Rule: Thirty-one days after filing.
 December 8, 1993
 Dewey Brock, Chief
 Office of Vendor Services

AMENDATORY SECTION (Amending Orders 3053 and 3053A, filed 8/21/90 and 8/27/90, effective 9/21/90 and 9/1/90)

WAC 388-86-073 Occupational therapy. (1) The department shall pay for occupational therapy when the ((following conditions are met)) occupational therapy is provided:

- (a) By a licensed occupational therapist((,-or));
- (b) By a licensed occupational therapy assistant supervised by a licensed occupational therapist((,-provides the service));

~~((b)) Approval is obtained before services are performed as required for each program as designated in the division of medical assistance billing instructions; and)) or~~

(c) In schools, by an occupational therapy aide trained and supervised by a licensed occupational therapist.

(2) The department shall pay for occupational therapy ((is provided)):

((i)) (a) Effective September 1, 1993, as part of an outpatient treatment program ((when identified in the early and periodic screening, diagnosis, and treatment program of a recipient twenty years of age and younger)) for adults and children;

((ii)) (b) By a home health agency as described under WAC 388-86-045;

((iii)) (c) As part of the physical medicine and rehabilitation program as described under WAC 388-86-112; ((or

(iv)) (d) In a neuromuscular center; or

(e) By a school district or educational service district as part of an individual education program or individualized family service plan as described under WAC 388-86-022.

((2)) (3) The department shall not pay for occupational therapy when payment for occupational therapy is included ((in)) as part of the reimbursement ((of)) for other treatment programs including, but not limited to, hospital inpatient diagnosis related group services or nursing facility services.

((3)) (4) The department shall pay for the following occupational therapy services in a calendar year when the attending health professional determines the services are medically appropriate:

(a) One occupational therapy assessment;

(b) Two durable medical equipment needs assessments;

(c) Twelve occupational therapy sessions; and

(d) A maximum of twenty-four additional outpatient occupational therapy sessions if services are specifically identified in the medical assistance administration billing instructions and the diagnosis is associated with:

(i) A medically necessary condition for developmentally delayed clients;

(ii) Surgeries involving extremities:

(A) Fractures; or

(B) Open wounds with tendon involvement; or

(C) Dorsal rhizotomy.

(iii) Intracranial injuries;

(iv) Burns;

(v) Traumatic injuries;

(vi) Cerebral palsy;

(vii) Downs syndrome;

(viii) Meningomyelocele;

(ix) Severe oral/motor problems:

(A) Dyspraxia;

(B) Cleft palate and/or cleft lip; or

(C) That interfere with adequate nutrition.

(x) Symptoms involving nervous and musculoskeletal systems:

(A) Abnormality of gait; or

(B) Lack of coordination; or

(xi) Post-completed/approved inpatient physical medicine and rehabilitation program when the client no longer needs nursing services but continues to require specialized outpatient therapy.

(e) Additional sessions when requested and approved through department of health's children with special health care needs program.

(5) For the purposes of this section, a "session" means not less than fifteen minutes and up to one hour of therapy in one day.

(6) The department shall pay for occupational therapy provided to ((recipients)) a client eligible under the:

(a) Categorically needy, children's health, general assistance unemployable and ADATSA programs;

(b) Medically needy program only when the ((recipient)) client is:

(i) Twenty years of age ((and)) or younger and referred by a screening provider under the early and periodic screening, diagnosis and treatment program/healthy kids program as described under WAC 388-86-027; or

(ii) Receiving home health care services as described under WAC 388-86-045.

(c) Medically indigent program as part of the treatment program under home health care services as described under WAC 388-86-045

(7) The department shall pay for occupational therapy provided to a client receiving services from a school district or educational service district as part of an individual education program or individualized family service plan as described under WAC 388-86-022.

AMENDATORY SECTION (Amending Orders 3053 and 3053A, filed 8/21/90 and 8/27/90, effective 9/21/90 and 9/1/90)

WAC 388-86-090 Physical therapy. (1) The department shall pay for physical therapy as an outpatient service when:

(a) The attending physician prescribes physical therapy;

(b) A licensed physical therapist or physiatrist ((or)), a physical therapist assistant supervised by a licensed physical therapist, or, in schools, a physical therapy aide trained and supervised by a licensed physical therapist provides the treatment; and

(c) The therapy assists the ((recipient)) client:

(i) In avoiding hospitalization or nursing ((home)) facility care; or

(ii) In becoming employable; or

(iii) Who suffers from severe motor disabilities to obtain a greater degree of self-care or independence; or

(iv) As part of a treatment program intended to restore normal function of a body part following injury, surgery, or prolonged immobilization.

(2) The department shall ((require approval before services are performed for outpatient physical therapy sessions exceeding ten sessions per patient in a calendar year pay for the following physical therapy services in a calendar year when the attending health professional determines the services are medically appropriate:

(a) One medical diagnostic evaluation;

(b) Twelve physical therapy sessions; and

(c) A maximum of twenty-four additional outpatient sessions, when the services are specifically identified in the medical assistance administration billing instructions and are for:

(i) Post-completed/approved inpatient physical medicine and rehabilitation program when the client no longer needs nursing services but continues to require specialized outpatient therapy; or

(ii) Medically necessary conditions for developmentally delayed clients;

(iii) Surgeries involving extremities:

(A) Fractures;

(B) Open wounds with tendon involvement; or

(C) Dorsal rhizotomy.

(iv) Intracranial injuries;

(v) Burns;

(vi) Cerebral palsy;

(vii) Downs Syndrome;

(viii) Meningomyelocele;

(ix) Traumatic injuries; or

(x) Symptoms involving nervous and musculoskeletal systems:

(A) Abnormality of gait; and

(B) Lack of coordination.

(d) Additional sessions when requested and approved through department of health's children with special health care needs program.

~~(3) ((The medical director of the division of medical assistance (DMA) may waive the prior approval requirement for physical therapy provided:~~

~~(a) In facilities having contracts with DMA as neuro-muscular centers; and~~

~~(b) By school districts as part of an individual education program or individualized family service plan)) For the purposes of this section, "session" means not less than fifteen minutes and up to one hour of therapy in one day.~~

~~(4) The department shall not pay for physical therapy when payment for physical therapy is included ((~~it~~)) as part of the reimbursement ((~~as part of~~)) for other treatment programs including, but not limited to, hospital inpatient ((~~diagnostic~~)) diagnosis related group services and nursing ((~~home~~)) facility services.~~

~~(5) The department shall pay for outpatient physical therapy for ((~~recipients~~)) a client eligible under the:~~

~~(a) Categorically needy, children's health, general assistance unemployable and ADATSA programs;~~

~~(b) Medically needy program only when the ((~~recipient~~)) client is:~~

~~(i) Twenty years of age ((~~and~~)) or under and referred by a screening provider under the early and periodic screening, diagnosis, and treatment program/healthy kids program as described under WAC 388-86-027; or~~

~~(ii) Receiving home health care services as described under WAC 388-86-045.~~

~~(c) Medically indigent program when receiving home health care services as described under WAC 388-86-045.~~

(6) The department shall pay for outpatient physical therapy for a client receiving services provided by a school district or educational service district as part of an individual education program or individualized family service plan as described under WAC 388-86-022.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Orders 3053 and 3053A, filed 8/21/90 and 8/27/90, effective 9/21/90 and 9/1/90)

WAC 388-86-098 Speech therapy services. (1) The department shall pay for speech therapy for conditions which are the result of medically recognized diseases and defects.

(2) The department shall pay for speech therapy when the ~~((following conditions are met))~~ services are provided:

(a) By a speech pathologist ((~~is~~)) or audiologist who has been granted a certificate of clinical competence by the American Speech, Hearing and Language Association((~~-or~~));

(b) By a person who completed the equivalent educational and work experience necessary for such a certificate ((~~provides the service~~); and

~~(b) Approval is obtained before the service is performed for:~~

~~(i) All speech therapy for recipients three years of age through twenty years of age; and~~

~~(ii) Speech therapy sessions after the evaluation and twelve sessions in a calendar year for recipients three years of age or younger or twenty one years of age and over); or~~

(c) In schools as described under WAC 388-86-022, by a person trained and supervised by a speech pathologist or audiologist who has been granted a certificate of clinical competence by the American speech, hearing and language association or a person who has completed the equivalent educational and work experience necessary for such a certificate.

~~(3) The ((medical director of the division of medical assistance (DMA) may waive the prior approval requirement for speech therapy provided:~~

~~(a) In facilities having contracts with DMA as neuro-muscular centers; and~~

~~(b) By school districts as part of an individualized education program or individualized family service plan)) department shall pay for the following speech therapy services in a calendar year:~~

~~(a) One medical diagnostic evaluation;~~

~~(b) Twelve speech therapy sessions; and~~

(c) A maximum of twenty-four additional speech therapy sessions if the speech therapy service is for:

(i) Medically necessary conditions for developmentally delayed clients;

(ii) Cerebral Palsy;

(iii) Severe oral/motor problems:

(A) Dyspraxia;

(B) Cleft palate and/or cleft lip; or

(C) That interfere with adequate nutrition.

(iv) Meningomyelocele;

(v) Neurofibromatosis; or

(vi) Downs syndrome.

~~(4) The department shall not pay for speech therapy when the speech therapy payment is ((~~it~~)) part of the reimbursement ((~~as part of other~~)) for another treatment ((~~programs~~)) program including, but not limited to:~~

~~(a) Hospital inpatient diagnosis related group services; and~~

~~(b) Nursing ((~~home~~)) facility services.~~

~~(5) The department shall pay for speech therapy provided to ((~~recipients~~)) a client eligible under the:~~

- (a) ~~((The))~~ Categorically needy, children's health, general assistance unemployable and ADATSA programs;
- (b) ~~((The))~~ Medically needy program only when the ~~((recipient))~~ client is:
 - (i) Twenty years of age and under and referred by a screening provider under the early and periodic screening, diagnosis, and treatment program/healthy kids program; or
 - (ii) Receiving home health care services as described under WAC 388-86-045.
- (c) ~~((The))~~ Medically indigent program when receiving home health care services as described under WAC 388-86-045.
- (6) The department shall pay for speech therapy provided to a client receiving medical services from a school district or educational service district as part of an individual education program or individualized family service plan as described under WAC 388-86-022.

- (4) ~~((If waived, the department shall conduct an interview:~~
 - ~~(a) Through a scheduled home visit, or~~
 - ~~(b) Over the telephone.~~
- ~~(5))~~ The department shall waive ~~((an))~~ the required office interview if the household:
 - (a) ~~((Has no))~~ Does not have a responsible member able to visit the office because of hardships; and
 - (b) Is unable to appoint an authorized representative; and
 - (c) Requests a waiver; or
 - (d) Consists solely of recipients of aid to families with dependent children or general assistance grant assistance and:
 - (i) The food stamp recertification date is the same as the redetermination date for the assistance grant; and
 - (ii) The redetermination for the assistance grant does not require a face-to-face interview; and
 - (iii) The department conducts a face-to-face interview at least once every twelve months.
- (5) If the department waives the required office interview, the department shall conduct the interview:
 - (a) Through a scheduled home visit; or
 - (b) Over the telephone.

WSR 94-01-066
PERMANENT RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
 (Public Assistance)
 [Order 3680—Filed December 8, 1993, 3:28 p.m.]

Date of Adoption: December 8, 1993.

Purpose: Streamlines and saves workload in the food stamp application process and brings the food stamp interview requirements into conformity with the AFDC program which requires a face-to-face interview only yearly. Allows a waiver of the face-to-face interview requirement for food stamp certifications at alternating six-month reviews for combined public assistance food stamp households. Requires a telephone interview in place of the face-to-face interview.

Citation of Existing Rules Affected by this Order: Amending WAC 388-49-060 Interview process.

Statutory Authority for Adoption: RCW 74.04.050 (7 CFR 273.2 (e)(i)).

Pursuant to notice filed as WSR 93-22-025 on October 27, 1993.

Effective Date of Rule: Thirty-one days after filing.
 December 8, 1993
 Dewey Brock, Chief
 Office of Vendor Services

AMENDATORY SECTION (Amending Order 2575, filed 12/31/87)

WAC 388-49-060 Interview process. (1) The department shall conduct a face-to-face interview ~~((prior to))~~ before certification and recertification. The person ~~((interviewed))~~ the department interviews shall be:

- (a) Any responsible household member~~((s))~~;
- (b) An authorized representative.

(2) The person ~~((being interviewed))~~ the department interviews may bring any person to the interview.

(3) Unless waived, the department shall conduct ~~((an))~~ the interview at the:

- (a) ~~((At the))~~ CSO~~((s))~~; or
- (b) ~~((At the))~~ Social Security Administration district office for SSI households.

WSR 94-01-073
PERMANENT RULES
DEPARTMENT OF HEALTH
 [Filed December 9, 1993, 2:25 p.m.]

Date of Adoption: November 30, 1993.

Purpose: The rules and regulations for radiation protection have been changed to comply with updated nationally-recognized radiation protection standards, to remain compatible with United States Nuclear Regulatory Commission, to improve readability, and to clarify existing regulations.

Citation of Existing Rules Affected by this Order: Amending chapters 246-220, 246-221, 246-222, 246-224, 246-225, 246-235, 246-243, 246-250, and 246-252 WAC.

Statutory Authority for Adoption: RCW 70.98.050.
 Pursuant to notice filed as WSR 93-19-048 on September 9, 1993.

Changes Other than Editing from Proposed to Adopted Version: Metric and SI units were inserted throughout chapter 246-225 WAC. In chapters 246-220, 246-221, 246-222, 246-225, 246-227, and 246-235 WAC, changes were made to clarify regulations and in response to comments made at public information sessions, public hearings, and by the United States Nuclear Regulatory Commission.

Effective Date of Rule: Thirty-one days after filing.
 December 7, 1993
 Bruce Miyahara
 Secretary

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-220-002 Purpose. It is the purpose of these regulations to state such requirements as shall be applied to the use of all ionizing radiation, radiation machines, and radioactive materials to ensure the maximum protection of

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the public health and the maximum safety to all persons at, or in the vicinity of, the place of use, storage, or disposal thereof. These regulations are intended to be consistent with the best use of radiation machines and radioactive materials.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-220-007 Statement of philosophy. In accordance with the recommendations of the Environmental Protection Agency, formerly the Federal Radiation Council, approved by the president of the United States of America, persons engaged in activities under licenses issued by the Washington state department of health pursuant to the Atomic Energy Act of 1954, as amended, shall, in addition to complying with the requirements set forth in chapter 246-221 WAC, make every reasonable effort to maintain radiation exposures, and releases of radioactive materials in effluents to unrestricted areas, as low as is reasonably achievable. Such persons should make particular efforts to keep the radiation exposure of an embryo or fetus as low as is reasonably achievable during the entire gestation period as recommended by the National Council on Radiation Protection and Measurements. The term "as low as is reasonably achievable" means ((as low as is readily achievable)) making every reasonable effort to maintain exposures to radiation as far below the dose limits in these regulations as is practical, consistent with the purpose for which the licensed or registered activity is undertaken, taking into account the state of technology, ((and)) the economics of improvements in relation to the state of technology, the economics of improvements in relation to benefits to the public health and safety, and other socioeconomic considerations, and in relation to the utilization of nuclear energy, ionizing radiation, and radioactive materials in the public interest.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-220-010 Definitions. As used in these regulations, these terms have the definitions set forth below. Additional definitions used only in a certain part will be found in that part.

(1) " A_1 " means the maximum activity of special form radioactive material permitted to be transported in a Type A package. " A_2 " means the maximum activity of normal form radioactive material permitted to be transported in a Type A package. A_1 and A_2 values are assigned to individual radionuclides and are tabulated in Appendix A of WAC 246-220-110. Methods of calculating values are also given.

(2) "Absorbed dose" means the energy imparted by ionizing radiation per unit mass of irradiated material. The units of absorbed dose are the gray (Gy) and the rad.

(3) "Accelerator produced material" means any material made radioactive by exposing it in a particle accelerator.

~~((3))~~ (4) "Act" means Nuclear energy and radiation, chapter 70.98 RCW.

~~((4))~~ (5) "Activity" means the rate of disintegration or transformation or decay of radioactive material. The units of activity are the becquerel (Bq) and the curie (Ci).

(6) "Adult" means an individual eighteen or more years of age.

(7) "Agreement state" means any state with which the United States Nuclear Regulatory Commission has entered into an effective agreement under section 274 b. of the Atomic Energy Act of 1954, as amended (73 Stat. 689).

~~((5))~~ (8) "Airborne radioactive material" means any radioactive material dispersed in the air in the form of particulates, dusts, fumes, mists, vapors, or gases.

~~((6))~~ (9) "Airborne radioactivity area" means ~~((a))~~ a room, enclosure, or operating area in which airborne radioactive material exists in concentrations (a) in excess of the ((amounts specified in Appendix A, Table I, Column 1 of chapter 246-221 WAC; or (b) any room, enclosure, or operating area in which airborne radioactive material exists in concentrations which, averaged over the number of hours in any week during which individuals are in the area, exceed twenty-five percent of the amounts)) derived air concentration (DAC) specified in WAC 246-221-290, Appendix A, ((Table I, Column 1)) or (b) to such a degree that an individual present in the area without respiratory protective equipment could exceed, during the hours an individual is present in a week, an intake of 0.6 percent of the annual limit on intake (ALI) or twelve DAC-hours.

(10) "Annual limit on intake" (ALI) means the derived limit for the amount of radioactive material taken into the body of an adult worker by inhalation or ingestion in a year. ALI is the smaller value of intake of a given radionuclide in a year by the reference man that would result in a committed effective dose equivalent of 0.05 Sv (5 rem) or a committed dose equivalent of 0.5 Sv (50 rem) to any individual organ or tissue. ALI values for intake by ingestion and by inhalation of selected radionuclides are given in WAC 246-221-290.

(11) "Background radiation" means radiation from cosmic sources; naturally occurring radioactive materials, including radon, except as a decay product of source or special nuclear material, and including global fallout as it exists in the environment from the testing of nuclear explosive devices. "Background radiation" does not include sources of radiation from radioactive materials regulated by the department.

(12) "Becquerel" (Bq) means the SI unit of activity. One becquerel is equal to 1 disintegration or transformation per second (s^{-1}).

(13) "Bioassay" means the determination of kinds, quantities or concentrations, and, in some cases, the locations of radioactive material in the human body, whether by direct measurement, in vivo counting, or by analysis and evaluation of materials excreted or removed from the human body. For purposes of these regulations, "radiobioassay" is an equivalent term.

~~((7))~~ (14) "Brachytherapy" means a method of radiation therapy in which sealed sources are utilized to deliver a radiation dose at a distance of up to a few centimeters, by surface, intracavitary, or interstitial application.

~~((8))~~ (15) "Byproduct material" means: (a) Any radioactive material (except special nuclear material) yielded in or made radioactive by exposure to the radiation incident to the process of producing or utilizing special nuclear material, and (b) the tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore processed primarily for its source material content, including discrete surface wastes resulting from uranium or

thorium solution extraction processes. Underground ore bodies depleted by these solution extraction operations do not constitute "byproduct material" within this definition.

~~((9))~~ (16) "Calendar quarter" means not less than twelve consecutive weeks nor more than fourteen consecutive weeks. The first calendar quarter of each year shall begin in January and subsequent calendar quarters shall be so arranged such that no day is included in more than one calendar quarter and no day in any one year is omitted from inclusion within a calendar quarter. No licensee or registrant shall change the method of determining calendar quarters for purposes of these regulations except at the beginning of a calendar year.

~~((10))~~ (17) "Calibration" means the determination of (a) the response or reading of an instrument relative to a series of known radiation values over the range of the instrument, or (b) the strength of a source of radiation relative to a standard.

~~((11))~~ (18) "CFR" means Code of Federal Regulations.

~~((12))~~ (19) "Class" means a classification scheme for inhaled material according to its rate of clearance from the pulmonary region of the lung. Materials are classified as D, W, or Y, which applies to a range of clearance half-times: For Class D, Days, of less than ten days, for Class W, Weeks, from ten to one hundred days, and for Class Y, Years, of greater than one hundred days. For purposes of these regulations, "lung class" and "inhalation class" are equivalent terms. For "class of waste" see WAC 246-249-040.

(20) "Collective dose" means the sum of the individual doses received in a given period of time by a specified population from exposure to a specified source of radiation.

(21) "Committed dose equivalent" ($H_{T,50}$) means the dose equivalent to organs or tissues of reference (T) that will be received from an intake of radioactive material by an individual during the fifty-year period following the intake.

(22) "Committed effective dose equivalent" ($H_{E,50}$) is the sum of the products of the weighting factors applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to each of these organs or tissues ($H_{E,50} = \sum w_T H_{T,50}$).

(23) "Controlled area." See "Restricted area."

~~((13))~~ (24) "Curie" means a unit of (~~measurement~~) quantity of radioactivity. One curie (Ci) is that quantity of radioactive material which decays at the rate of 3.7×10^{10} transformations per second (tps). (~~Commonly used submultiples of the curie are the millicurie and the microcurie. One millicurie (mCi) = 0.001 curie = 3.7×10^7 tps. (Formerly referred to as disintegrations per seconds or dps.) One microcurie (uCi) = 0.000001 curie = 3.7×10^4 tps. One picocurie (pCi) = 10^{-12} Ci. One nanocurie (nCi) = 10^{-9} Ci. One tps = 60 dpm.~~)

(14)) (25) "Declared pregnant woman" means a woman who has voluntarily informed her employer, in writing, of her pregnancy, and her estimated date of conception.

(26) "Deep dose equivalent" (H_D), which applies to external whole body exposure, means the dose equivalent at a tissue depth of 1 centimeter (1000 mg/cm^2).

(27) "Department" means the department of health, division of radiation protection, which has been designated as the state radiation control agency.

~~((15))~~ (28) "Depleted uranium" means the source material uranium in which the isotope Uranium-235 is less than 0.711 percent by weight of the total uranium present. Depleted uranium does not include special nuclear material.

~~((16) "dpm" means disintegrations per minute. See also "curie."~~

~~(17) "Dose" as used in these regulations shall mean absorbed dose or dose equivalent as appropriate.~~

~~(a) "Absorbed dose" is the energy imparted to matter by ionizing radiation per unit mass of irradiated material at the place of interest. The special unit of absorbed dose is the rad. (See rad.)~~

~~(b) "Dose equivalent" is a quantity that expresses on a common scale for all radiation a measure of the postulated effect on a given organ. It is defined as the absorbed dose in rads times certain modifying factors. The unit of dose equivalent is the rem. (See rem.)~~

(18)) (29) "Derived air concentration" (DAC) means the concentration of a given radionuclide in air which, if breathed by the reference man for a working year of two thousand hours under conditions of light work, results in an intake of one ALI. For purposes of these regulations, the condition of light work is an inhalation rate of 1.2 cubic meters of air per hour for two thousand hours in a year. DAC values are given in WAC 246-221-290.

(30) "Derived air concentration-hour" (DAC-hour) means the product of the concentration of radioactive material in air, expressed as a fraction or multiple of the derived air concentration for each radionuclide, and the time of exposure to that radionuclide, in hours. A licensee or registrant may take two thousand DAC-hours to represent one ALI, equivalent to a committed effective dose equivalent of 0.05 Sv (5 rem).

(31) "Dose" is a generic term that means absorbed dose, dose equivalent, effective dose equivalent, committed dose equivalent, committed effective dose equivalent, total organ dose equivalent, or total effective dose equivalent. For purposes of these regulations, "radiation dose" is an equivalent term.

(32) "Dose commitment" means the total radiation dose to a part of the body that will result from retention in the body of radioactive material. For purposes of estimating the dose commitment, it is assumed that from the time of intake the period of exposure to retained material will not exceed fifty years.

~~((19) "Exposure" means the quotient of dQ by dm where "dQ" is the absolute value of the total charge of the ions of one sign produced in air when all the electrons (negatrons and positrons) liberated by photons in a volume element of air having "dm" are completely stopped in air. (The special unit of exposure is the roentgen (R).)*~~

Note: *When not underlined as above the term 'exposure' has a more general meaning in these regulations.

(20) "Exposure rate" means the exposure per unit of time, such as R/min., mR/h, etc.

~~(21))~~ (33) "Dose equivalent (H_T)" means the product of the absorbed dose in tissue, quality factor, and all other necessary modifying factors at the location of interest. The units of dose equivalent are the sievert (Sv) and rem.

(34) "Dose limits" means the permissible upper bounds of radiation doses established in accordance with these

regulations. For purposes of these regulations, "limits" is an equivalent term.

(35) "Dosimetry processor" means a person that processes and evaluates individual monitoring devices in order to determine the radiation dose delivered to the monitoring devices.

(36) "dpm" means disintegrations per minute. See also "curie."

(37) "Effective dose equivalent (H_E)" means the sum of the products of the dose equivalent to each organ or tissue (H_T) and the weighting factor (w_T) applicable to each of the body organs or tissues that are irradiated ($H_E = \sum w_T H_T$).

(38) "Embryo/fetus" means the developing human organism from conception until the time of birth.

(39) "Entrance or access point" means any opening through which an individual or extremity of an individual could gain access to radiation areas or to licensed radioactive materials. This includes entry or exit portals of sufficient size to permit human entry, without respect to their intended use.

(40) "Exposure" means (a), when used as a verb, being exposed to ionizing radiation or to radioactive material, or (b), when used as a noun, the quotient of ΔQ by Δm where " ΔQ " is the absolute value of the total charge of the ions of one sign produced in air when all the electrons (negatrons and positrons) liberated by photons in a volume element of air having mass " Δm " are completely stopped in air. The special unit of exposure is the roentgen (R) and the SI equivalent is the coulomb per kilogram. One roentgen is equal to 2.58×10^{-4} coulomb per kilogram of air.

(41) "Exposure rate" means the exposure per unit of time, such as roentgen per minute and milliroentgen per hour.

(42) "External dose" means that portion of the dose equivalent received from any source of radiation outside the body.

(43) "Extremity" means hand, elbow, arm below the elbow, foot, knee, and leg below the knee.

(44) "Eye dose equivalent" means the external dose equivalent to the lens of the eye at a tissue depth of 0.3 centimeter (300 mg/cm^2).

(45) "Former United States Atomic Energy Commission (AEC) or United States Nuclear Regulatory Commission (NRC) licensed facilities" means nuclear reactors, nuclear fuel reprocessing plants, uranium enrichment plants, or critical mass experimental facilities where AEC or NRC licenses have been terminated.

~~((22))~~ (46) "Generally applicable environmental radiation standards" means standards issued by the United States Environmental Protection Agency (EPA) under the authority of the Atomic Energy Act of 1954, as amended, that impose limits on radiation exposures or levels, or concentrations or quantities of radioactive material, in the general environment outside the boundaries of locations under the control of persons possessing or using radioactive material.

(47) "Gray" (Gy) means the SI unit of absorbed dose. One gray is equal to an absorbed dose of 1 joule/kilogram (100 rad).

(48) "Healing arts" means the disciplines of medicine, dentistry, osteopathy, chiropractic, podiatry, and veterinary medicine.

~~((23))~~ (49) "High radiation area" means any area, accessible to individuals, in which ~~((there exists))~~ radiation ~~((at such))~~ levels ~~((that a major portion of the body could receive in any one hour a dose in excess of 100 millirems))~~ could result in an individual receiving a dose equivalent in excess of 1 mSv (0.1 rem) in one hour at 30 centimeters from any source of radiation or from any surface that the radiation penetrates. For purposes of these regulations, rooms or areas in which diagnostic x-ray systems are used for healing arts purposes are not considered high radiation areas.

~~((24))~~ (50) "Highway route controlled quantity" means a quantity of radioactive material in a single package which exceeds:

- (a) 3,000 times the A_1 or A_2 quantity as appropriate; or
- (b) 30,000 curies, whichever is ~~((least))~~ less.

~~((25))~~ (51) "Human use" means the intentional internal or external administration of radiation or radioactive material to human beings.

~~((26))~~ (52) "Immediate" or "immediately" means as soon as possible but no later than four hours after the initiating condition.

(53) "IND" means investigatory new drug for which an exemption has been claimed under the United States Food, Drug and Cosmetic Act (Title 10 CFR).

~~((27))~~ (54) "Individual" means any human being.

~~((28))~~ (55) "Individual monitoring" means the assessment of:

(a) Dose equivalent (i) by the use of individual monitoring devices or (ii) by the use of survey data; or

(b) Committed effective dose equivalent (i) by bioassay or (ii) by determination of the time-weighted air concentrations to which an individual has been exposed, that is, DAC-hours.

(56) "Individual monitoring devices" means devices designed to be worn by a single individual for the assessment of dose equivalent. For purposes of these regulations, individual monitoring equipment, personnel monitoring device, personnel dosimeter, and dosimeter are equivalent terms. Examples of individual monitoring devices are film badges, thermoluminescent dosimeters (TLDs), pocket ionization chambers, and personal air sampling devices.

(57) "Inspection" means an official examination or observation by the department including but not limited to, tests, surveys, and monitoring to determine compliance with rules, regulations, orders, requirements and conditions of the department.

~~((29))~~ "Irretrievable source" means any sealed source containing licensed material which is pulled off or not connected to the wireline downhole and for which all reasonable effort at recovery, as determined by the department, has been expended.

~~((30))~~ (58) "Interlock" means a device arranged or connected such that the occurrence of an event or condition is required before a second event or condition can occur or continue to occur.

~~((31))~~ (59) "Internal dose" means that portion of the dose equivalent received from radioactive material taken into the body.

(60) "Irretrievable source" means any sealed source containing licensed material which is pulled off or not connected to the wireline downhole and for which all

reasonable effort at recovery, as determined by the department, has been expended.

(61) "License" means a license issued by the department in accordance with the regulations adopted by the department.

((32)) (62) "Licensed material" means radioactive material received, possessed, used, transferred, or disposed under a general or specific license issued by the department.

(63) "Licensee" means any person who is licensed by the department in accordance with these regulations and the act.

((33)) (64) "Licensing state" means any state with regulations equivalent to the suggested state regulations for control of radiation relating to, and an effective program for, the regulatory control of NARM and which has been granted final designation by the Conference of Radiation Control Program Directors, Inc.

((34)) (65) "Lost or missing licensed material" means licensed material whose location is unknown. This definition includes licensed material that has been shipped but has not reached its planned destination and whose location cannot be readily traced in the transportation system.

(66) "Major processor" means a user processing, handling, or manufacturing radioactive material exceeding Type A quantities as unsealed sources or material, or exceeding four times Type B quantities as sealed sources, but does not include nuclear medicine programs, universities, industrial radiographers, or small industrial programs. Type A and B quantities are defined in Section 71.4 of 10 CFR Part 71.

((35)) (67) "Member of the public" means an individual who does not meet the definition of a worker as defined in this subsection. A worker is considered a member of the public when not engaged in work for his or her employer.

(68) "Minor" means an individual less than eighteen years of age.

(69) "Monitoring" means the measurement of radiation, radioactive material concentrations, surface area activities or quantities of radioactive material and the use of the results of these measurements to evaluate potential exposures and doses. For purposes of these regulations, radiation monitoring and radiation protection monitoring are equivalent terms.

(70) "NARM" means any naturally occurring or accelerator-produced radioactive material (~~except source material~~). It does not include by-product, source, or special nuclear material. For the purpose of meeting the definition of a Licensing State by the Conference of Radiation Control Program Directors, Inc. (CRCPD), NARM refers only to discrete sources of NRAM. Diffuse sources of NARM are excluded from consideration by the CRCPD for Licensing State designation purposes.

((36)) (71) "Natural radioactivity" means radioactivity of naturally occurring nuclides.

((37)) (72) "NDA" means a new drug application which has been submitted to the United States Food and Drug Administration.

((38)) (73) "Nonstochastic effect" means a health effect, the severity of which varies with the dose and for which a threshold is believed to exist. Radiation-induced cataract formation is an example of a nonstochastic effect. For purposes of these regulations, a "deterministic effect" is an equivalent term.

(74) "Normal form radioactive material" means radioactive material which has not been demonstrated to qualify as "special form radioactive material."

((39)) (75) "Nuclear Regulatory Commission" (NRC) means the United States Nuclear Regulatory Commission or its duly authorized representatives.

(76) "Nuclear waste" as used in WAC 246-232-090(5) means any quantity of source or byproduct material, (not including radiography sources being returned to the manufacturer) required to be in Type B packaging while transported to, through, or across state boundaries to a disposal site, or to a collection point for transport to a disposal site. Nuclear waste, as used in these regulations, is a special classification of radioactive waste.

((40)) (77) "Occupational dose" means (~~exposure of an individual to radiation in a restricted area; or in the course of employment in which the individual's duties involve exposure to radiation: Provided, That occupational dose shall not be deemed to include any exposure of an individual to radiation for the purpose of diagnosis or therapy of such individual~~) the dose received by a worker in the course of employment from exposure to sources of radiation, whether in the possession of the licensee, registrant, or other person. Occupational dose does not include dose received: From background radiation, as a patient from medical practices, from voluntary participation in medical research programs, or as a member of the public.

((41)) (78) "Ore refineries" means all processors of a radioactive material ore.

((42)) (79) "Package" means the packaging together with its radioactive contents as presented for transport.

(80) "Particle accelerator" means any machine capable of accelerating electrons, protons, deuterons, or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of 1 MeV.

((43)) (81) "Permittee" means a person who has applied for, and received, a valid site use permit for use of the low-level waste disposal facility at Hanford, Washington.

((44)) (82) "Person" means any individual, corporation, partnership, firm, association, trust, estate, public or private institution, group, agency, political subdivision of this state, any other state or political subdivision or agency thereof, and any legal successor, representative, agent or agency of the foregoing, but shall not include federal government agencies.

((45)) (83) "Personal supervision" means supervision such that the supervisor is physically present at the facility and in such proximity that contact can be maintained and immediate assistance given as required.

((46)) (84) "Personnel monitoring equipment" (~~means devices (e.g., film badges, pocket dosimeters, and thermoluminescent dosimeters) designed to be worn or carried by an individual for the purpose of estimating the dose received by the individual~~). See individual monitoring devices.

((47)) (85) "Pharmacist" means an individual licensed by this state to compound and dispense drugs, and poisons.

((48)) (86) "Physician" means an individual licensed by this state to prescribe and dispense drugs in the practice of medicine.

~~((49))~~ (87) "Planned special exposure" means an infrequent exposure to radiation, separate from and in addition to the annual occupational dose limits.

(88) "Practitioner" means an individual licensed by the state in the practice of a healing art (i.e., physician, dentist, podiatrist, chiropractor, etc.).

~~((50))~~ (89) "Public dose" means the dose received by a member of the public from exposure to sources of radiation under the licensee's or registrant's control. It does not include occupational dose, dose received from background radiation, dose received as a patient from medical practices, or dose from voluntary participation in medical research programs.

(90) "Qualified expert" means an individual who has demonstrated to the satisfaction of the department ~~((possession of))~~ he/she has the knowledge ~~((and))~~, training, and experience to measure ionizing radiation, to evaluate safety techniques, and to advise regarding radiation protection needs. The department reserves the right to recognize the qualifications of an individual in specific areas of radiation protection.

~~((51))~~ (91) "Quality factor" (Q) means the modifying factor, listed in Tables I and II, that is used to derive dose equivalent from absorbed dose.

| | | |
|--|----|------|
| Alpha particles, multiple-charged particles, fission fragments and heavy particles of unknown charge | 20 | 0.05 |
| Neutrons of unknown energy | 10 | 0.1 |
| High-energy protons | 10 | 0.1 |

^a Absorbed dose in rad equal to 1 rem or the absorbed dose in gray equal to 1 Sv.

If it is more convenient to measure the neutron fluence rate rather than to determine the neutron dose equivalent rate in sievert per hour or rem per hour as required for Table I, then 0.01 Sv (1 rem) of neutron radiation of unknown energies may, for purposes of these regulations, be assumed to result from a total fluence of 25 million neutrons per square centimeter incident upon the body. If sufficient information exists to estimate the approximate energy distribution of the neutrons, the licensee or registrant may use the fluence rate per unit dose equivalent or the appropriate Q value from Table II to convert a measured tissue dose in gray or rad to dose equivalent in sievert or rem.

TABLE I
QUALITY FACTORS AND ABSORBED DOSE EQUIVALENCIES

| TYPE OF RADIATION | Quality Factor (Q) | Absorbed Dose Equal to A Unit Dose Equivalent ^a |
|--|--------------------|--|
| X, gamma, or beta radiation and high-speed electrons | 1 | 1 |

TABLE II
MEAN QUALITY FACTORS, Q, AND FLUENCE PER UNIT DOSE EQUIVALENT FOR MONOENERGETIC NEUTRONS

| Neutron Energy (MeV) | Quality Factor ^a (Q) | Fluence per Unit Dose Equivalent ^b (neutrons cm ⁻² rem ⁻¹) | Fluence per Unit Dose Equivalent ^b (neutrons cm ⁻² Sv ⁻¹) |
|------------------------|---------------------------------|--|---|
| (thermal) | | | |
| 2.5 x 10 ⁻⁸ | 2 | 980 x 10 ⁶ | 980 x 10 ⁸ |
| 1 x 10 ⁻⁷ | 2 | 980 x 10 ⁶ | 980 x 10 ⁸ |
| 1 x 10 ⁻⁶ | 2 | 810 x 10 ⁶ | 810 x 10 ⁸ |
| 1 x 10 ⁻⁵ | 2 | 810 x 10 ⁶ | 810 x 10 ⁸ |
| 1 x 10 ⁻⁴ | 2 | 840 x 10 ⁶ | 840 x 10 ⁸ |
| 1 x 10 ⁻³ | 2 | 980 x 10 ⁶ | 980 x 10 ⁸ |
| 1 x 10 ⁻² | 2.5 | 1010 x 10 ⁶ | 1010 x 10 ⁸ |
| 1 x 10 ⁻¹ | 7.5 | 170 x 10 ⁶ | 170 x 10 ⁸ |
| 5 x 10 ⁻¹ | 11 | 39 x 10 ⁶ | 39 x 10 ⁸ |
| 1 | 11 | 27 x 10 ⁶ | 27 x 10 ⁸ |
| 2.5 | 9 | 29 x 10 ⁶ | 29 x 10 ⁸ |
| 5 | 8 | 23 x 10 ⁶ | 23 x 10 ⁸ |
| 7 | 7 | 24 x 10 ⁶ | 24 x 10 ⁸ |
| 10 | 6.5 | 24 x 10 ⁶ | 24 x 10 ⁸ |
| 14 | 7.5 | 17 x 10 ⁶ | 17 x 10 ⁸ |
| 20 | 8 | 16 x 10 ⁶ | 16 x 10 ⁸ |
| 40 | 7 | 14 x 10 ⁶ | 14 x 10 ⁸ |
| 60 | 5.5 | 16 x 10 ⁶ | 16 x 10 ⁸ |
| 1 x 10 ² | 4 | 20 x 10 ⁶ | 20 x 10 ⁸ |
| 2 x 10 ² | 3.5 | 19 x 10 ⁶ | 19 x 10 ⁸ |
| 3 x 10 ² | 3.5 | 16 x 10 ⁶ | 16 x 10 ⁸ |
| 4 x 10 ² | 3.5 | 14 x 10 ⁶ | 14 x 10 ⁸ |

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- a Value of quality factor (Q) at the point where the dose equivalent is maximum in a 30-cm diameter cylinder tissue-equivalent phantom.
- b Monoenergetic neutrons incident normally on a 30-cm diameter cylinder tissue-equivalent phantom.

(92) "Quarter" means a period of time equal to one-fourth of the year observed by the licensee, approximately thirteen consecutive weeks, providing that the beginning of the first quarter in a year coincides with the starting date of the year and that no day is omitted or duplicated in consecutive quarters.

(93) "Rad" means the special unit of absorbed dose. One rad equals one-hundredth of a joule per kilogram of material; for example, if tissue is the material of interest, then 1 rad equals 100 ergs per gram of tissue. One rad is equal to an absorbed dose of 100 erg/gram or 0.01 joule/kilogram (0.01 gray).

((52)) (94) "Radiation" means ((ionizing radiation, i.e., gamma rays and x-rays, alpha and beta particles, high speed electrons, and other nuclear particles)) alpha particles, beta particles, gamma rays, x-rays, neutrons, high-speed electrons, high-speed protons, and other particles capable of producing ions. For purposes of these regulations, ionizing radiation is an equivalent term. Radiation, as used in these regulations, does not include magnetic fields or nonionizing radiation, such as radiowaves or microwaves, visible, infrared, or ultraviolet light.

((53)) (95) "Radiation area" means any area, accessible to individuals, in which ((there exists radiation at such levels that a major portion of the body could receive in any one hour a dose in excess of 5 millirems, or in any five consecutive days a dose in excess of 100 millirems)) radiation levels could result in an individual receiving a dose equivalent in excess of 0.05 mSv (0.005 rem) in one hour at thirty centimeters from the source of radiation or from any surface that the radiation penetrates.

((54)) (96) "Radiation machine" means any device capable of producing ionizing radiation except those ((which produce radiation only from radioactive material)) devices with radioactive materials as the only source of radiation.

((55)) (97) "Radiation safety officer" means ((one)) an individual who has the knowledge((-authority-)) and responsibility to apply appropriate radiation protection regulations and ((measures)) has been assigned such responsibility by the licensee or registrant.

((56)) (98) "Radiation source." See "Source of radiation."

((57)) (99) "Radioactive material" means any material (solid, liquid, or gas) which emits radiation spontaneously.

((58)) (100) "Radioactive waste" means any radioactive material which is no longer of use and intended for disposal or treatment for the purposes of disposal.

((59)) (101) "Radioactivity" means the transformation of unstable atomic nuclei by the emission of radiation.

((60)) (102) "Reference man" means a hypothetical aggregation of human physical and physiological characteristics determined by international consensus. These characteristics may be used by researchers and public health workers to standardize results of experiments and to relate biological insult to a common base.

(103) "Registrable item" means any radiation machine except those exempted by RCW 70.98.180 or exempted by the department pursuant to the authority of RCW 70.98.080.

((61)) (104) "Registrant" means any person who is registered by the department or is legally obligated to register with the department in accordance with these regulations and the act.

((62)) (105) "Registration" means registration with the department in accordance with the regulations adopted by the department.

((63)) (106) "Regulations of the United States Department of Transportation" means the regulations in 49 CFR Parts 170-189, 14 CFR Part 103, and 46 CFR Part 146.

((64) "Rem" means a measure of the dose of any radiation to body tissue in terms of its estimated biological effect relative to a dose received from an exposure to one roentgen (R) of x-rays. (One millirem (mrem) = 0.001 rem.) For the purpose of these regulations, any of the following is considered to be equivalent to a dose of one rem:

- (a) An exposure of 1 R of x, or gamma radiation;
- (b) A dose of 1 rad due to x, gamma, or beta radiation;
- (c) A dose of 0.05 rad due to particles heavier than protons and with sufficient energy to reach the lens of the eye;
- (d) A dose of 0.1 rad due to neutrons or high energy protons.*
- (e) A dose of 0.4 rad due to thermal neutrons.

Note: *If it is more convenient to measure the neutron flux, or equivalent, than to determine the neutron absorbed dose in rads, one rem of neutron radiation may, for purposes of these regulations, be assumed to be equivalent to fourteen million neutrons per square centimeter incident upon the body; or, if there exists sufficient information to estimate with reasonable accuracy the approximate distribution in energy of the neutrons, the incident number of neutrons per square centimeter equivalent to one rem may be estimated from the following table:

Neutron Flux Dose Equivalents

| Neutron energy (MeV) | Number of neutrons per square centimeter for a dose equivalent of 1 rem (neutrons/cm ²) | Average flux density to deliver 100 |
|----------------------|---|---|
| | | millirems in 40 hours (neutrons/cm ² per second) |
| Thermal | 970 x 10 ⁶ | 670 |
| 0.0001 | 720 x 10 ⁶ | 500 |
| 0.005 | 820 x 10 ⁶ | 570 |
| 0.02 | 400 x 10 ⁶ | 280 |
| 0.1 | 120 x 10 ⁶ | 80 |
| 0.5 | 43 x 10 ⁶ | 30 |
| 1.0 | 26 x 10 ⁶ | 18 |
| 2.5 | 29 x 10 ⁶ | 20 |
| 5.0 | 26 x 10 ⁶ | 18 |
| 7.5 | 24 x 10 ⁶ | 17 |
| 10.0 | 24 x 10 ⁶ | 17 |
| 10 to 30 | 14 x 10 ⁶ | 10 |

((65)) (107) "Rem" means the special unit of any of the quantities expressed as dose equivalent. The dose equivalent in rem is equal to the absorbed dose in rad multiplied by the quality factor (1 rem = 0.01 Sv).

(108) "Research and development" means: (a) Theoretical analysis, exploration, or experimentation; or (b) the extension of investigative findings and theories of a scientific

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or technical nature into practical application for experimental and demonstration purposes, including the experimental production and testing of models, devices, equipment, materials, and processes. Research and development does not include the internal or external administration of radiation or radioactive material to human beings.

~~((66))~~ (109) "Respiratory protective equipment" means an apparatus, such as a respirator, used to reduce an individual's intake of airborne radioactive materials.

(110) "Restricted area" ~~((controlled area))~~ means any area ~~((the access))~~ to which ~~((is controlled))~~ access is limited by the licensee or registrant for purposes of ~~((protection of))~~ protecting individuals against undue risks from exposure to radiation and radioactive material. "Restricted area" shall not include any areas used for residential quarters, although a separate room or rooms in a residential building may be set apart as a restricted area.

~~((67))~~ (111) "Roentgen" (R) means the special unit of ~~((exposure))~~ exposure. One roentgen equals 2.58×10^{-4} coulombs/kilogram of air ~~((see "Exposure"))~~.

~~((68))~~ (112) "Sanitary sewerage" means a system of public sewers for carrying off waste water and refuse, but excluding sewage treatment facilities, septic tanks, and leach fields owned or operated by the licensee or registrant.

(113) "Sealed source" means any device containing radioactive material ~~((that is permanently bonded or fixed in a capsule or matrix designed to prevent release and dispersal of the radioactive material under the most severe conditions which are likely to be encountered in normal use and handling))~~ to be used as a source of radiation which has been constructed in such a manner as to prevent the escape of any radioactive material.

~~((69))~~ (114) "Shallow dose equivalent" (H_s), which applies to the external exposure of the skin or an extremity, means the dose equivalent at a tissue depth of 0.007 centimeter (7 mg/cm^2) averaged over an area of 1 square centimeter.

(115) "SI" means an abbreviation of the International System of Units.

(116) "Sievert" means the SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sievert is equal to the absorbed dose in gray multiplied by the quality factor ($1 \text{ Sv} = 100 \text{ rem}$).

(117) "Site boundary" means that line beyond which the land or property is not owned, leased, or otherwise controlled by the licensee or registrant.

(118) "Source container" means a device in which radioactive material is transported or stored.

(119) "Source material" means: (a) Uranium or thorium, or any combination thereof, in any physical or chemical form, or (b) ores which contain by weight one-twentieth of one percent (0.05 percent) or more of (i) uranium, (ii) thorium, or (iii) any combination thereof. Source material does not include special nuclear material.

~~((70))~~ "Source of radiation" means any radioactive material, or any device or equipment emitting or capable of producing ionizing radiation.

~~(71)~~ "Source container" means a device in which radioactive material is transported or stored.

~~(72))~~ (120) "Source material milling" means ~~((any activity that results in the production of byproduct material as defined in subsection (8)(b) of this section))~~ the extraction

or concentration of uranium or thorium from any ore processing primarily for its source material content.

~~((73))~~ (121) "Source of radiation" means any radioactive material, or any device or equipment emitting or capable of producing ionizing radiation.

(122) "Special form radioactive material" means radioactive material which satisfies the following conditions:

(a) It is either a single solid piece or is contained in a sealed capsule that can only be opened by destroying the capsule;

(b) The piece or capsule has at least one dimension not less than five millimeters (0.197 inch); and

(c) It satisfies the test requirements ~~((of 10 CFR 71.75))~~ specified by the United States Nuclear Regulatory Commission. A special form encapsulation designed in accordance with the United States Nuclear Regulatory Commission requirements in effect on June 30, 1983, and constructed prior to July 1, 1985, may continue to be used. A special form encapsulation either designed or constructed after June 30, 1985, must meet requirements of this definition applicable at the time of its design or construction.

~~((74))~~ (123) "Special nuclear material" means:

(a) Plutonium, uranium-233, uranium enriched in the isotope 233 or in the isotope 235, and any other material that the United States Nuclear Regulatory Commission, pursuant to the provisions of section 51 of the Atomic Energy Act of 1954, as amended, determines to be special nuclear material, but does not include source material; or

(b) Any material artificially enriched in any of the foregoing, but does not include source material.

(124) "Special nuclear material in quantities not sufficient to form a critical mass" means uranium enriched in the isotope U-235 in quantities not exceeding three hundred fifty grams of contained U-235; Uranium-233 in quantities not exceeding two hundred grams; Plutonium in quantities not exceeding two hundred grams; or any combination of them in accordance with the following formula: For each kind of special nuclear material, determine the ratio between the quantity of that special nuclear material and the quantity specified above for the same kind of special nuclear material. The sum of such ratios for all of the kinds of special nuclear material in combination shall not exceed "1" (i.e., unity). For example, the following quantities in combination would not exceed the limitation and are within the formula:

$$\begin{array}{r}
 175(\text{grams contained U-235}) \\
 \hline
 350 \\
 + \\
 50(\text{grams U-233}) \\
 \hline
 200 \\
 + \\
 50(\text{grams Pu}) \\
 \hline
 200 < 1
 \end{array}$$

~~((75))~~ (125) "State" as used in WAC 246-232-090(5) means the several states of the union, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Trust Territory of the Pacific Islands, and the Commonwealth of the Northern Mariana Islands.

~~((76))~~ (126) "Stochastic effect" means a health effect that occurs randomly and for which the probability of the

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effect occurring, rather than its severity, is assumed to be a linear function of dose without threshold. Hereditary effects and cancer incidence are examples of stochastic effects. For purposes of these regulations, probabilistic effect is an equivalent term.

(127) "Survey" means an evaluation of the radiological conditions and potential hazards incident to the production, use, release, disposal, ~~((and))~~ or presence of sources of radiation ~~((under a specific set of conditions to determine actual or potential radiation hazards))~~. When appropriate, such evaluation includes, but is not limited to, tests, physical examinations, calculations and measurements of levels of radiation or concentration of radioactive material present.

~~((77))~~ (128) "Test" means (a) the process of verifying compliance with an applicable regulation, or (b) a method for determining the characteristics or condition of sources of radiation or components thereof.

~~((78))~~ (129) "These regulations" mean all parts of the rules for radiation protection of the state of Washington.

~~((79))~~ (130) "Total effective dose equivalent" (TEDE) means the sum of the deep dose equivalent for external exposures and the committed effective dose equivalent for internal exposures.

(131) "Total organ dose equivalent (TODE)" means the sum of the deep dose equivalent and the committed dose equivalent to the organ or tissue receiving the highest dose.

(132) "Type A packaging" means packaging designed in accordance with 49 CFR 173.411 and 173.412 to retain its integral containment and shielding under normal conditions of transport as demonstrated by tests described in 49 CFR 173.465 or 173.466 as appropriate. The contents are limited to A₁ or A₂ quantities. The package does not require competent authority approval.

~~((80))~~ (133) "Type A quantity" means a quantity of radioactive material less than or equal to the A₁ or A₂ value for a single radionuclide, or for which the sum of the fractions does not exceed unity for a mixture of radionuclides.

~~((81))~~ (134) "Type B packaging" means packaging approved by the United States Nuclear Regulatory Commission for the transport of quantities of radioactivity in excess of A₁ or A₂. It is defined in detail in 10 CFR 71.4.

~~((82))~~ (135) "Type B quantity" means a quantity of radioactive material in excess of a Type A quantity. It requires Type B packaging for transportation.

~~((83))~~ "Uncontrolled area." See "Unrestricted area."

~~((84))~~ (136) "United States Department of Energy" means the Department of Energy established by Public Law 95-91, August 4, 1977, 91 Stat. 565, 42 U.S.C. 7101 et seq., to the extent that the department exercises functions formerly vested in the United States Atomic Energy Commission, its chairman, members, officers and components and transferred to the United States Energy Research and Development Administration and to the administrator thereof pursuant to sections 104 (b), (c) and (d) of the Energy Reorganization Act of 1974 (Public Law 93-438, October 11, 1974, 88 Stat. 1233 at 1237, 42 U.S.C. 5814 effective January 19, 1975) and retransferred to the Secretary of Energy pursuant to section 301(a) of the Department of Energy Organization Act (Public Law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977).

~~((85))~~ (137) "Unrefined and unprocessed ore" means ore in its natural form prior to any processing, such as grinding, roasting, beneficiating, or refining.

~~((86))~~ (138) "Unrestricted area" (uncontrolled area) means any area ~~((access to which is not controlled by the licensee or registrant for purposes of protection of individuals from exposure to radiation and radioactive material, and any area used for residential quarters))~~ which is not a restricted area and where the external dose will not exceed 2 mrem in any one hour. In addition, the public dose, taking into account occupancy factors, will not exceed 100 mrem total effective dose equivalent in any one year.

(139) "Very high radiation area" means an area, accessible to individuals, in which radiation levels could result in an individual receiving an absorbed dose in excess of 5 Gy (500 rad) in one hour at one meter from a source of radiation or from any surface that the radiation penetrates.

~~((87))~~ (140) "Waste handling licensees" mean persons licensed to receive and store radioactive wastes prior to disposal and/or persons licensed to dispose of radioactive waste.

~~((88))~~ (141) "Week" means seven consecutive days starting on Sunday.

(142) "Weighting factor" w_T for an organ or tissue (T) means the proportion of the risk of stochastic effects resulting from irradiation of that organ or tissue to the total risk of stochastic effects when the whole body is irradiated uniformly. For calculating the effective dose equivalent, the values of w_T are:

ORGAN DOSE WEIGHTING FACTORS

| Organ or Tissue | w _T |
|-----------------|-------------------|
| Gonads | 0.25 |
| Breast | 0.15 |
| Red bone marrow | 0.12 |
| Lung | 0.12 |
| Thyroid | 0.03 |
| Bone surfaces | 0.03 |
| Remainder | 0.30 ^a |
| Whole Body | 1.00 ^b |

^a 0.30 results from 0.06 for each of 5 "remainder" organs, excluding the skin and the lens of the eye, that receive the highest doses.

^b For the purpose of weighting the external whole body dose, for adding it to the internal dose, a single weighting factor, w_T = 1.0, has been specified. The use of other weighting factors for external exposure will be approved on a case-by-case basis until such time as specific guidance is issued.

(143) "Whole body" means, for purposes of external exposure, head, trunk including male gonads, arms above the elbow, or legs above the knee.

(144) "Worker" means an individual engaged in work under a license or registration issued by the department and controlled by a licensee or registrant ~~((, but does not include the licensee or registrant))~~. Where the licensee or registrant is an individual rather than one of the other legal entities defined under "person," the radiation exposure limits for the worker also apply to the individual who is the licensee or registrant. If students of age eighteen years or older are subjected routinely to work involving radiation, then the

students are considered to be occupational workers. Individuals of less than eighteen years of age shall meet the requirements of WAC 246-221-050.

(145) "Working level" (WL) means any combination of short-lived radon daughters in 1 liter of air that will result in the ultimate emission of 1.3×10^5 MeV of potential alpha particle energy. The short-lived radon daughters are — for radon-222: polonium-218, lead-214, bismuth-214, and polonium-214; and for radon-220: polonium-216, lead-212, bismuth-212, and polonium-212.

(146) "Working level month" (WLM) means an exposure to one working level for one hundred seventy hours — two thousand working hours per year divided by twelve months per year is approximately equal to one hundred seventy hours per month.

(147) "Year" means the period of time beginning in January used to determine compliance with the provisions of these regulations. The licensee or registrant may change the starting date of the year used to determine compliance by the licensee or registrant provided that the change is made at the beginning of the year and that no day is omitted or duplicated in consecutive years.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-220-080 Prohibited uses. (1) Hand-held fluoroscopic screens shall not be used unless listed in the Registry of Sealed Sources and Devices or accepted for certifications by the United States Food and Drug Administration, Center for Devices and Radiological Health.

(2) Shoe-fitting fluoroscopic devices shall not be used.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-220-090 Communications. All communications and reports concerning these regulations, and applications filed thereunder, should be addressed to the Department of Health, Division of Radiation Protection, ((Mailstop LE-43)) P.O. Box 47827, Olympia, Washington 98504-7827. The emergency telephone number in Seattle, is 206-682-5327 or 206 (NUCLEAR).

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-220-120 Appendix B—Information on transportation special form licensed material. (1) "Special form" means any of the following physical forms of licensed material:

(a) The material is in solid form having no dimension less than 0.5 millimeter or at least one dimension greater than five millimeters; does not melt, sublime, or ignite in air at a temperature of 1,000 degrees Fahrenheit; will not shatter or crumble if subjected to the percussion test described in this section; and is not dissolved or converted into dispersible form to the extent of more than 0.005 percent by weight by immersion for one week in water at 68 degrees Fahrenheit or in air at 86 degrees Fahrenheit; or

(b) The material is securely contained in a capsule having no dimension less than 0.5 millimeter or at least one dimension greater than five millimeters, which will retain its

contents if subjected to the tests prescribed in this section; and which is constructed of materials which do not melt, sublime, or ignite in air at 1,475 degrees Fahrenheit, and do not dissolve, or convert into dispersible form, to the extent of more than 0.005 percent by weight by immersion for one week in water at 68 degrees Fahrenheit or in air at 86 degrees Fahrenheit.

(2) *Tests for special form licensed material.*

(a) Free drop - A free drop through a distance of thirty feet onto a flat essentially unyielding horizontal surface, striking the surface in such a position as to suffer maximum damage.

(b) Percussion - Impact of the flat circular end of a one inch diameter steel rod weighing three pounds, dropped through a distance of forty inches. The capsule or material shall be placed on a sheet of lead, of hardness number 3.5 to 4.5 on the Vickers scale, and not more than one inch thick, supported by a smooth essentially unyielding surface.

(c) Heating - Heating in air to a temperature of 1,475 degrees Fahrenheit and remaining at that temperature for a period of ten minutes.

(d) Immersion - Immersion for twenty-four hours in water at room temperature. The water shall be at pH 6-pH 8, with a maximum conductivity of ten ((microohms)) micromhos per centimeter.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-220-130 Appendix C—The international system of units (SI). ((This appendix does not contain any regulations, but is included for informational purposes only.

The Metric Conversion Act of 1975 (PL 94-168) urges the increasing awareness and use of the International System of Units (SI). This appendix is included to acquaint licensees and/or registrants with selected terms of SI units. Future revisions to chapters 246-220 through 246-255 WAC may use these units.

(1) *Absorbed dose.* The unit of absorbed dose is the gray (Gy) which is equal to 1 joule per kilogram. One rad is equal to 1×10^{-2} gray. A submultiple is the milligray (mGy).

(2) *Dose equivalent.* The unit of dose equivalent is the sievert (Sv) which is equal to 1 joule per kilogram as modified by the quality factor. One rem is equal to 1×10^{-2} sievert. A submultiple is the millisievert (mSv).

(3) *Exposure.* The unit of exposure is the coulombs per kilogram (C/kg). One roentgen is equal to 2.58×10^{-4} coulombs per kilogram of dry air. Multiples of this unit are the millicoulomb per kilogram (mC/kg) and the microcoulomb per kilogram (uC/kg) of dry air at standard temperature and pressure.

(4) *Radioactivity.* The unit of measurement of radioactivity is the becquerel (Bq) and is equal to one transformation per second. One curie is equal to 3.7×10^{10} becquerels. Multiples are megabecquerel (MBq) and gigabecquerel (GBq).) **Conversion factors.**

| Multiply | by | to obtain |
|------------|-------------------------|---------------------------|
| becquerels | 2.703×10^{-11} | curies |
| becquerels | 2.703×10^{-8} | millicuries |
| curies | 3.700×10^{10} | becquerels |
| curies | 2.220×10^{12} | disintegrations/min (dpm) |

| | | |
|---------------|---------------------------|---------------------------|
| curies | 10 ³ | millicuries |
| curies | 10 ⁶ | microcuries |
| curies | 10 ¹² | picocuries |
| dis/min (dpm) | 4.505 x 10 ⁻¹⁰ | millicuries |
| dis/min (dpm) | 4.505 x 10 ⁻⁷ | microcuries |
| dis/sec (Bq) | 2.703 x 10 ⁻⁸ | millicuries |
| dis/sec (Bq) | 2.703 x 10 ⁻⁵ | microcuries |
| gray | 100 | rad |
| microcuries | 3.700 x 10 ⁴ | becquerels |
| microcuries | 2.220 x 10 ⁶ | disintegrations/min (dpm) |
| millicuries | 3.700 x 10 ⁷ | becquerels |
| millicuries | 2.220 x 10 ⁹ | disintegrations/min (dpm) |
| rad | 0.01 | gray |
| rem | 0.01 | sievert |
| sievert | 100 | rem |

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-010 (~~(Radiation dose to individuals in restricted areas.)*~~) **Occupational dose limits for adults.** (1) (~~Except as provided in subsection (2) of this section no licensee or registrant shall possess, use, store, receive, or transfer sources of radiation in such a manner as to cause any individual in a restricted area to receive in any period of one calendar quarter from all sources of radiation in the licensee's or registrant's possession a dose in excess of the limits specified in the following table:~~

Rem per Calendar Quarter

| | |
|--|-------|
| Whole body; head and trunk; active blood forming organs; lens of eyes; or gonads | 1.25 |
| Hands and forearms; feet and ankles | 18.75 |
| Skin of whole body | 7.5 |

Note: ~~*For determining the doses specified in this section a dose from x or gamma rays up to 10 MeV may be assumed to be equivalent to the exposure measured by a properly calibrated appropriate instrument in air at or near the body surface in the region of the highest dose rate.~~

~~(2) A licensee or registrant may permit an individual in a restricted area to receive a dose to the whole body greater than that permitted under subsection (1) of this section, provided that:~~

~~(a) During any calendar quarter the dose to the whole body from sources of radiation in the licensee's or registrant's possession shall not exceed three rems; and~~

~~(b) The dose to the whole body, when added to the accumulated occupational dose to the whole body, shall not exceed 5(N-18) rems when "N" equals the individual's age in years at the individual's last birthday; and~~

~~(c) The licensee or registrant has determined the individual's accumulated occupational dose to the whole body on department Form RHF 4 or on a clear and legible record containing all the information required in that form and has otherwise complied with the requirements of WAC 246-221-020. As used in subsection (2) of this section "dose to the whole body" shall be deemed to include any dose to the whole body, gonads, active blood forming organs, head and trunk, or lens of the eye; and~~

~~(d) The licensee or registrant has determined that the predicted dose to the whole body is as low as is reasonably achievable and consistent with the statements in WAC 246-220-007. The licensee or registrant shall perform an evaluation of the expected whole body dose before permitting any individual to receive a whole body dose in excess of the limits specified in subsection (1) of this section.~~

~~A written record of the prior evaluation of this exposure shall be retained for inspection by the department.)~~ The licensee or registrant shall control the occupational dose to individual adults, except for planned special exposures pursuant to WAC 246-221-030, to the following dose limits:

- (a) An annual limit, which is the more limiting of:
 - (i) The total effective dose equivalent being equal to 0.05 Sv (5 rem); or
 - (ii) The sum of the deep dose equivalent and the committed dose equivalent to any individual organ or tissue other than the lens of the eye being equal to 0.50 Sv (50 rem).

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-001 Purpose and scope. (1) This chapter establishes standards for protection against radiation hazards. Except as otherwise specifically provided, this chapter applies to all licensees or registrants. The requirements of this chapter are designed to control the receipt, possession, use, transfer, and disposal of sources of radiation by any licensee or registrant so the total dose to an individual, including doses resulting from all sources of radiation other than background radiation, does not exceed the standards for protection against radiation prescribed in this chapter.

(2) The limits in this chapter do not apply to doses due to background radiation, to exposure of patients to radiation for the purpose of medical diagnosis or therapy, or to voluntary participation in medical research programs.

(3) Nothing in this chapter shall be interpreted as limiting ((the intentional exposure of patients to radiation for the purpose of medical diagnosis or therapy)) actions that may be necessary to protect health and safety in an emergency.

(4) The definitions contained in WAC 246-220-010 also apply to this chapter. WAC 246-220-007, Statement of philosophy, is directly applicable to this chapter.

NEW SECTION

WAC 246-221-005 Radiation protection programs.

(1) Each specific licensee shall develop, document, and implement a radiation protection program sufficient to ensure compliance with the provisions of this chapter.

(2) The licensee shall use, to the extent practicable, procedures and engineering controls based upon sound radiation protection principles to achieve occupational doses and doses to members of the public that are as low as is reasonably achievable (ALARA).

(3) The licensee shall review the radiation protection program content and implementation at the frequency specified in the license.

(4) Each licensee shall maintain records of the radiation protection program, including:

- (a) The provisions of the program; and
- (b) Audits, where required, and other reviews of program content and implementation.

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(b) The annual limits to the lens of the eye, to the skin, and to the extremities which are:

(i) An eye dose equivalent of 0.15 Sv (15 rem); and

(ii) A shallow dose equivalent of 0.50 Sv (50 rem) to the skin or to any extremity.

(2) Doses received in excess of the annual limits, including doses received during accidents, emergencies, and planned special exposures, must be subtracted from the limits specified in WAC 246-221-030 for planned special exposures that the individual may receive during the current year and during the individual's lifetime.

(3) The assigned deep dose equivalent and shallow dose equivalent shall be for the portion of the body receiving the highest exposure. The deep dose equivalent, eye dose equivalent and shallow dose equivalent may be assessed from surveys or other radiation measurements for the purpose of demonstrating compliance with the occupational dose limits, if the individual monitoring device was not in the region of highest potential exposure, or the results of individual monitoring are unavailable.

(4) Derived air concentration (DAC) and annual limit on intake (ALI) values are specified in WAC 246-221-290 and may be used to determine the individual's dose and to demonstrate compliance with the occupational dose limits.

(5) Notwithstanding the annual dose limits, the licensee shall limit the soluble uranium intake by an individual to 10 milligrams in a week in consideration of chemical toxicity.

(6) The licensee or registrant shall reduce the dose that an individual may be allowed to receive in the current year by the amount of occupational dose received while employed by any other person during the current year as determined in accordance with WAC 246-221-020.

NEW SECTION

WAC 246-221-015 Compliance with requirements for summation of external and internal doses. (1) If the licensee is required to monitor pursuant to both WAC 246-221-090 and 246-221-100, the licensee shall demonstrate compliance with the dose limits by summing external and internal doses. If the licensee is required to monitor only pursuant to WAC 246-221-090 or only pursuant to WAC 246-221-100, then summation is not required to demonstrate compliance with the dose limits. The licensee may demonstrate compliance with the requirements for summation of external and internal doses pursuant to subsections (2), (3), and (4) of this section. The dose equivalents for the lens of the eye, the skin, and the extremities are not included in the summation, but are subject to separate limits.

(2) **Intake by inhalation.** If the only intake of radionuclides is by inhalation, the total effective dose equivalent limit is not exceeded if the sum of the deep dose equivalent divided by the total effective dose equivalent limit, and one of the following, does not exceed unity:

(a) The sum of the fractions of the inhalation ALI for each radionuclide; or

(b) The total number of derived air concentration-hours (DAC-hours) for all radionuclides divided by two thousand; or

(c) The sum of the calculated committed effective dose equivalents to all significantly irradiated organs or tissues (T) calculated from bioassay data using appropriate biological

models and expressed as a fraction of the annual limit. For purposes of this requirement, an organ or tissue is deemed to be significantly irradiated if, for that organ or tissue, the product of the weighting factors, w_T , and the committed dose equivalent, $H_{T,50}$, per unit intake is greater than ten percent of the maximum weighted value of H_{50} , that is, $w_T H_{T,50}$, per unit intake for any organ or tissue.

(3) **Intake by oral ingestion.** If the occupationally exposed individual also receives an intake of radionuclides by oral ingestion greater than ten percent of the applicable oral ALI, the licensee shall account for this intake and include it in demonstrating compliance with the limits.

(4) **In take through wounds or absorption through skin.** The licensee shall evaluate and, to the extent practical, account for intakes through wounds or skin absorption. The intake through intact skin has been included in the calculation of DAC for hydrogen-3 and does not need to be evaluated or accounted for pursuant to this section.

(5) **External dose from airborne radioactive material.** Licensees shall, when determining the dose from airborne radioactive material, include the contribution to the deep dose equivalent, eye dose equivalent, and shallow dose equivalent from external exposure to the radioactive cloud. Airborne radioactivity measurements and DAC values shall not be used as the primary means to assess the deep dose equivalent when the airborne radioactive material includes radionuclides other than noble gases or if the cloud of airborne radioactive material is not relatively uniform. The determination of the deep dose equivalent to an individual shall be based upon measurements using instruments or individual monitoring devices.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-020 Determination of prior ((accumulated)) occupational dose. ~~((Determination of prior dose. Each licensee or registrant shall require any individual, prior to first entry of the individual into the licensee's or registrant's restricted area during each employment or work assignment under such circumstances that the individual will receive or is likely to receive in any period of one calendar quarter an occupational dose in excess of 25 percent of the applicable standards specified in WAC 246-221-010(1) and 246-221-050 to disclose and verify in a written, signed statement, either:~~

~~(1) That the individual had no prior occupational dose during the current calendar quarter; or~~

~~(2) The nature and amount of any occupational dose which the individual may have received during that specifically identified current calendar quarter from sources of radiation possessed or controlled by other persons. Each licensee shall maintain records of such statements until the department authorizes their disposition.)) (1) For each individual who may enter the licensee's or registrant's restricted area and is likely to receive, in a year, an occupational dose requiring monitoring pursuant to WAC 246-221-090 and 246-221-100, the licensee or registrant shall:~~

~~(a) Determine the occupational radiation dose received during the current year; and~~

~~(b) Attempt to obtain the records of lifetime cumulative occupational radiation dose.~~

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(2) Prior to permitting an individual to participate in a planned special exposure, the licensee or registrant shall determine:

(a) The internal and external doses from all previous planned special exposures; and

(b) All doses in excess of the limits, including doses received during accidents and emergencies, received during the lifetime of the individual.

(3) In complying with the requirements of subsection (1) of this section, a licensee or registrant may:

(a) Accept, as a record of the occupational dose that the individual received during the current year, a written signed statement from the individual, or from the individual's most recent employer for work involving radiation exposure, that discloses the nature and the amount of any occupational dose that the individual received during the current year; and

(b) Accept, as the record of lifetime cumulative radiation dose, an up-to-date Form RHF-4A, or equivalent, signed by the individual and countersigned by an appropriate official of the most recent employer for work involving radiation exposure, or the individual's current employer, if the individual is not employed by the licensee or registrant; and

(c) Obtain reports of the individual's dose equivalent from the most recent employer for work involving radiation exposure, or the individual's current employer, if the individual is not employed by the licensee or registrant, by telephone, telegram, facsimile, or letter. The licensee or registrant shall request a written verification of the dose data if the authenticity of the transmitted report cannot be established.

(4) The licensee or registrant shall record the exposure history, as required by subsection (1) of this section, on Form RHF-4A, or other clear and legible record, of all the information required on that form. The form or record shall show each period in which the individual received occupational exposure to radiation or radioactive material and shall be signed by the individual who received the exposure. For each period for which the licensee or registrant obtains reports, the licensee or registrant shall use the dose shown in the report in preparing Form RHF-4A. For any period in which the licensee or registrant does not obtain a report, the licensee or registrant shall place a notation on Form RHF-4A indicating the periods of time for which data are not available.

(5) Licensees or registrants are not required to reevaluate the separate external dose equivalents and internal committed dose equivalents or intakes of radionuclides assessed under the regulations in effect before January 1, 1994. Further, occupational exposure histories obtained and recorded on Form RHF-4 before January 1, 1994, would not have included effective dose equivalent, but may be used in the absence of specific information on the intake of radionuclides by the individual.

(6) If the licensee or registrant is unable to obtain a complete record of an individual's current and previously accumulated occupational dose, the licensee or registrant shall assume:

(a) In establishing administrative controls under WAC 246-221-010(6) for the current year, that the allowable dose limit for the individual is reduced by 12.5 mSv (1.25 rem) for each calendar quarter for which records were unavailable

and the individual was engaged in activities that could have resulted in occupational radiation exposure; and

(b) That the individual is not available for planned special exposures.

(7) The licensee or registrant shall retain the records on Form RHF-4A or equivalent until the department terminates each pertinent license requiring this record. The licensee or registrant shall retain records used in preparing Form RHF-4 or RHF-4A for three years after the record is made.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-030 Requirements for (~~exceeding occupational radiation doses~~) planned special exposures.

~~((1) Before permitting, pursuant to WAC 246-221-010(2), any individual in a restricted area to receive an occupational radiation dose in excess of the standards specified in WAC 246-221-010(1) each licensee or registrant shall:~~

~~(a) Obtain a certificate on state of Washington occupational external radiation exposure history (Form RHF-4) or on a clear and legible record containing all the information required in that form, signed by the individual, showing each period of time after the individual attained the age of 18 in which the individual received an occupational dose of radiation; and~~

~~(b) Calculate on Form RHF-4 in accordance with the instructions appearing therein, or on a clear and legible record containing all the information required in that form, the previously accumulated occupational dose received by the individual and the additional dose allowed for that individual under WAC 246-221-010(2).~~

In the preparation of Form RHF-4, or a clear and legible record containing all the information required in that form, the licensee or registrant shall make a reasonable effort to obtain reports of the individual's previously accumulated occupational dose. For each period for which the licensee or registrant obtains such reports, the dose shown in the report shall be used in preparing the form. In any case where a licensee or registrant is unable to obtain reports of the individual's occupational dose for a previous complete calendar quarter, it shall be assumed that the individual has received the occupational dose specified in whichever of the following columns apply:

| | <u>Column 1</u> | <u>Column 2</u> |
|--------------|--|---|
| | <u>Assumed Dose in Rems for Calendar Quarters Prior to January 1, 1961</u> | <u>Assumed Dose in Rems for Calendar Quarters Beginning on or After January 1, 1961</u> |
| Part of Body | | |

| | | |
|--|------|------|
| Whole body, gonads, active blood-forming organs, head and trunk, lens of eye | 3.75 | 1.25 |
|--|------|------|

(2) The licensee or registrant shall retain and preserve records used in preparing Form RHF-4 until the department authorizes their disposition. If calculation of the individual's accumulated occupational dose for all periods prior to January 1, 1961, yields a result higher than the applicable accumulated dose value for the individual as of that date, as specified in WAC 246-221-010(2)(b) the excess may be disregarded.) A licensee or registrant may authorize an adult worker to receive doses in addition to and accounted for

separately from the doses received under the limits specified in WAC 246-221-010 provided that each of the following conditions is satisfied:

(1) The licensee or registrant authorizes a planned special exposure only in an exceptional situation when alternatives that might avoid the higher exposure are unavailable or impractical.

(2) The licensee or registrant, and employer if the employer is not the licensee or registrant, specifically authorizes the planned special exposure, in writing, before the exposure occurs.

(3) Before a planned special exposure, the licensee or registrant ensures that each individual involved is:

(a) Informed of the purpose of the planned operation; and

(b) Informed of the estimated doses and associated potential risks and specific radiation levels or other conditions that might be involved in performing the task; and

(c) Instructed in the measures to be taken to keep the dose ALARA considering other risks that may be present.

(4) Prior to permitting an individual to participate in a planned special exposure, the licensee or registrant ascertains prior doses as required by WAC 246-221-020(2) during the lifetime of the individual for each individual involved.

(5) Subject to WAC 246-221-010(2), the licensee or registrant shall not authorize a planned special exposure that would cause an individual to receive a dose from all planned special exposures and all doses in excess of the limits to exceed:

(a) The numerical values of any of the dose limits in WAC 246-221-010(1) in any year; and

(b) Five times the annual dose limits in WAC 246-221-010(1) during the individual's lifetime.

(6) The licensee or registrant maintains records that describe:

(a) The exceptional circumstances requiring the use of a planned special exposure; and

(b) The name of the management official who authorized the planned special exposure and a copy of the signed authorization; and

(c) What actions were necessary; and

(d) Why the actions were necessary; and

(e) What precautions were taken to assure that doses were maintained ALARA; and

(f) What individual and collective doses were expected to result.

(7) The licensee or registrant records the best estimate of the dose resulting from the planned special exposure in the individual's record and informs the individual, in writing, of the dose within thirty days from the date of the planned special exposure. The dose from planned special exposures shall not be considered in controlling future occupational dose of the individual pursuant to WAC 246-221-010(1) but shall be included in evaluations required by subsections (4) and (5) of this section.

(8) The licensee or registrant submits a written report in accordance with WAC 246-221-265.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-040 Determination of internal exposure of individuals to concentrations of radioactive materials in restricted areas. ~~((1) Requirements for exposures to individuals.~~

~~(a) No licensee shall possess, use, or transfer radioactive material in such a manner as to permit any individual in a restricted area to inhale a quantity of radioactive material in any period of one calendar quarter greater than the quantity which would result from inhalation for 40 hours per week for 13 weeks at uniform concentrations of radioactive material in air specified in WAC 246-221-290, Appendix A, Table I, Column 1^{1, 2, 3}. If the radioactive material is of such form that intake by absorption through the skin is likely, individual exposures to radioactive material shall be controlled so that the uptake of radioactive material by any organ from either inhalation or absorption or both routes of intake^{4, 5} in any calendar quarter does not exceed that which would result from inhaling such radioactive material for 40 hours per week for 13 weeks at uniform concentrations specified in WAC 246-221-290, Appendix A, Table I, Column 1.~~

~~(b) No licensee shall possess, use, or transfer mixtures of U-234, U-235, and U-238 in soluble form in such a manner as to permit any individual in a restricted area to inhale a quantity of such material in excess of the intake limits specified in Appendix A, Table I, Column 1 of this part. If such soluble uranium is of a form such that absorption through the skin is likely, individual exposures to such material shall be controlled so that the uptake of such material by any organ from either inhalation or absorption or both routes of intake⁴ does not exceed that which would result from inhaling such material at the limits specified in WAC 246-221-290, Appendix A, Table I, Column 1 and footnote 4 thereto.~~

~~(c) For purposes of determining compliance with the requirements of this section the licensee shall use suitable measurements of concentrations of radioactive materials in air for detecting and evaluating airborne radioactivity in restricted areas and in addition, as appropriate, shall use measurements of radioactivity in the body, measurements of radioactivity excreted from the body, or any combination of such measurements as may be necessary for timely detection and assessment of individual intakes of radioactivity by exposed individuals. It is assumed that an individual inhales radioactive material at the airborne concentration in which he or she is present unless he or she uses respiratory protective equipment pursuant to this section. When assessment of a particular individual's intake of radioactive material is necessary, intakes less than those which would result from inhalation for 2 hours in any one day or for 10 hours in any one week at uniform concentrations specified in Appendix A, Table I, Column 1 need not be included in such assessment, provided that for any assessment in excess of these amounts the entire amount is included.~~

~~(2)(a) The licensee shall, as a precautionary procedure, use process or other engineering controls, to the extent practicable, to limit concentrations of radioactive materials in air to levels below those which delimit an airborne radioactivity area as defined in WAC 246-220-010.~~

~~(b) When it is impracticable to apply process or other engineering controls to limit concentrations of radioactive material in air below those defined in WAC 246-220-010, other precautionary procedures, such as increased surveillance, limitation of working times, or provision of respiratory protective equipment, shall be used to maintain intake of radioactive material by any individual within any period of seven consecutive days as far below that intake of radioactive material which would result from inhalation of such material for 40 hours at the uniform concentrations specified in Appendix A, Table I, Column 1 as is reasonably achievable. Whenever the intake of radioactive material by any individual exceeds this 40-hour control measure, the licensee shall make such evaluations and take such actions as are necessary to assure against recurrence. The licensee shall maintain records of such occurrences, evaluations, and actions taken in a clear and readily identifiable form suitable for summary review and evaluation.~~

~~(3) When respiratory protective equipment is used to limit the inhalation of airborne radioactive material pursuant to subsection (2)(b) of this section, the licensee may make allowance for such use in estimating exposures of individuals to such materials provided that such equipment is used as stipulated in Regulatory Guide 8.15, "Acceptable Programs for Respiratory Protection."⁶~~

~~(4) Notwithstanding the provisions of subsections (2) and (3) of this section, the department may impose further restrictions:~~

~~(a) On the extent to which a licensee may make allowance for use of respirators in lieu of provision of process, containment, ventilation, or other engineering controls, if application of such controls is found to be practicable; and~~

~~(b) As might be necessary to assure that the respiratory protective program of the licensee is adequate in limiting exposures of personnel to airborne radioactive materials.~~

~~(5) The licensee shall notify, in writing, the department at least 30 days before the date that respiratory protective equipment is first used under the provisions of this section:~~

Notes: ¹Since the concentration specified for tritium oxide vapor assumes equal intakes by skin absorption and inhalation, the total intake permitted is twice that which would result from inhalation alone at the concentration specified in H-3(s) in Appendix A, Table I, Column 1 for 40 hours per week for 13 weeks.

²For radioactive materials designated "sub" in the "isotope" column of the table, the concentration value specified is based upon exposure to the material as an external radiation source. Individual exposures to these materials may be accounted for as part of the limitation on individual dose in WAC 246-221-010. These materials shall be subject to the precautionary procedures required by subsection (2)(a) of this section.

³Multiply the concentration values specified in Appendix A, Table I, Column 1 by 6.3×10^8 ml to obtain the quarterly quantity limit. Multiply the concentration value specified in Appendix A, Table I, Column 1 of this part by 2.5×10^9 ml to obtain the annual quantity limit for Rn-222.

⁴Significant intake by ingestion or injection is presumed to occur only as a result of circumstances such as accident, inadvertence, poor procedure, or similar special conditions. Such intakes must be evaluated and accounted for by techniques and procedures as may be appropriate to the circumstances for the occurrence. Exposures so evaluated shall be included in determining whether the limitation on individual exposures in subsection (1)(a) of this section has been exceeded.

⁵Regulatory guidance on assessment of individual intakes of radioactive material is given in Regulatory Guide 8.9, "Acceptable Concepts, Models, Equations and Assumptions for a Bioassay Program," single copies of which are available from the Office of Standards Development, United States Nuclear Regulatory Commission, Washington, D.C. 20555, upon written request.

⁶Single copies of Regulatory Guide 8.15 are available for the Office of Standards Development, United States Nuclear Regulatory Commission, Washington, D.C. 20555, upon written request.)

For purposes of assessing dose used to determine compliance with occupational dose equivalent limits, the licensee shall, when required under WAC 246-221-100, take suitable and timely measurements of:

(a) Concentrations of radioactive materials in air in work areas; or

(b) Quantities of radionuclides in the body; or

(c) Quantities of radionuclides excreted from the body;

or

(d) Combinations of these measurements.

(2) Unless respiratory protective equipment is used, as provided in WAC 246-221-117, or the assessment of intake is based on bioassays, the licensee shall assume that an individual inhales radioactive material at the airborne concentration in which the individual is present.

(3) When specific information on the physical and biochemical properties of the radionuclides taken into the body or the behavior of the material in an individual is known, the licensee may:

(a) Use that information to calculate the committed effective dose equivalent, and, if used, the licensee shall document that information in the individual's record; and

(b) Upon prior approval of the department, adjust the DAC or ALI values to reflect the actual physical and chemical characteristics of airborne radioactive material, for example, aerosol size distribution or density; and

(c) Separately assess the contribution of fractional intakes of Class D, W, or Y compounds of a given radionuclide to the committed effective dose equivalent. See WAC 246-221-290.

(4) If the licensee chooses to assess intakes of Class Y material using the measurements given in subsection (1)(b) or (c) of this section, the licensee may delay the recording and reporting of the assessments for periods up to seven months, unless otherwise required by WAC 246-221-250 or 246-221-260. This delay permits the licensee to make additional measurements basic to the assessments.

(5) If the identity and concentration of each radionuclide in a mixture are known, the fraction of the DAC applicable to the mixture for use in calculating DAC-hours shall be either:

(a) The sum of the ratios of the concentration to the appropriate DAC value, that is, D, W, or Y, from WAC 246-221-290 for each radionuclide in the mixture; or

(b) The ratio of the total concentration for all radionuclides in the mixture to the most restrictive DAC value for any radionuclide in the mixture.

(6) If the identity of each radionuclide in a mixture is known, but the concentration of one or more of the radionuclides in the mixture is not known, the DAC for the mixture shall be the most restrictive DAC of any radionuclide in the mixture.

(7) When a mixture of radionuclides in air exists, a licensee may disregard certain radionuclides in the mixture if:

(a) The licensee uses the total activity of the mixture in demonstrating compliance with the dose limits in WAC 246-221-010 and in complying with the monitoring requirements in WAC 246-221-100; and

(b) The concentration of any radionuclide disregarded is less than ten percent of its DAC; and

(c) The sum of these percentages for all of the radionuclides disregarded in the mixture does not exceed thirty percent.

(8) When determining the committed effective dose equivalent, the following information may be considered:

(a) In order to calculate the committed effective dose equivalent, the licensee may assume that the inhalation of one ALI, or an exposure of 2,000 DAC-hours, results in a committed effective dose equivalent of 0.05 Sv (5 rem) for radionuclides that have their ALIs or DACs based on the committed effective dose equivalent.

(b) For an ALI and the associated DAC determined by the nonstochastic organ dose limit of 0.50 Sv (50 rem), the intake of radionuclides that would result in a committed effective dose equivalent of 0.05 Sv (5 rem), that is, the stochastic ALI, is listed in parentheses in Table I of WAC 246-221-290. The licensee may, as a simplifying assumption, use the stochastic ALIs to determine committed effective dose equivalent. However, if the licensee uses the stochastic ALIs, the licensee shall also demonstrate that the limit in WAC 246-221-010 (1)(a)(ii) is met.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-050 ((Exposure of) Occupational dose limits for minors.((*) ((†))) No licensee or registrant shall possess, use, or transfer sources of radiation in such a manner as to cause any occupationally exposed individual ((within a restricted area.)) who is under 18 years of age, to receive ((in any period of one calendar quarter from all sources of radiation in such licensee's or registrant's possession)) a dose in excess of 10 percent of the annual occupational dose limits specified in ((the table in)) WAC 246-221-010(1).

((2) No licensee shall possess, use, or transfer radioactive material in such a manner as to cause any individual within a restricted area, who is under 18 years of age, to be exposed to airborne radioactive material in an average concentration in excess of the limits specified in WAC 246-221-290, Appendix A, Table II, of this chapter. For purposes of this paragraph, concentrations may be averaged over periods not greater than a week.

(3) The provisions of WAC 246-221-040 (2)(b) and (3) shall apply to exposures subject to subsection (2) of this section except that the references in WAC 246-221-040 (2)(b) and (3) to Appendix A, Table I, Column 1 shall be deemed to be referenced to Appendix A, Table II, Column 1.

Note: ~~*For determining the doses specified in this section, a dose from x or gamma rays up to 10 MeV may be assumed to be equivalent to the exposure measured by a properly calibrated appropriate instrument in air at or near the body surface in the region of the highest dose rate.))~~

NEW SECTION

WAC 246-221-055 Dose to an embryo/fetus. (1) The licensee or registrant shall ensure that the dose to an embryo/fetus during the entire pregnancy, due to occupational exposure of a declared pregnant woman, does not exceed 5 mSv (0.5 rem).

(2) Once pregnancy has been declared, the licensee or registrant shall make every effort to avoid substantial variation above a uniform monthly exposure rate to a declared pregnant woman so as to satisfy the limit in subsection (1) of this section.

(3) If by the time the woman declares pregnancy to the licensee or registrant, the dose to the embryo/fetus has exceeded 4.5 mSv (0.45 rem), the licensee or registrant shall be deemed to be in compliance with subsection (1) of this section if the additional dose to the embryo/fetus does not exceed 0.50 mSv (0.05 rem) during the remainder of the pregnancy.

(4) The dose to an embryo/fetus shall be taken as the sum of:

(a) The calculated dose equivalent to the embryo/fetus resulting from external exposure of the declared pregnant woman or, in the absence of this information, the deep dose equivalent to the declared pregnant woman; and

(b) The dose to the embryo/fetus from radionuclides in the embryo/fetus and radionuclides in the declared pregnant woman.

(5) The licensee or registrant shall maintain the records of dose to an embryo/fetus with the records of dose to the declared pregnant woman. The declaration of pregnancy, including the estimated date of conception, shall also be kept on file, but may be maintained separately from the dose records.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-060 ((Permissible levels of radiation from external sources in unrestricted areas.*)) Dose limits for individual members of the public.

((Note: *It is the intent of this section to limit radiation levels so that it is unlikely that individuals in unrestricted areas would receive a dose to the whole body in excess of 0.5 rem in any calendar year. If in specific instances, it is determined by the department that this intent is not met, the department may, pursuant to WAC 246-220-100, impose such additional requirements on the licensee or registrant as may be necessary to meet the intent.

(1) Except as authorized by the department pursuant to subsection (2) of this section, no licensee or registrant shall possess, use, or transfer sources of radiation in such a manner as to create in any unrestricted area from such sources of radiation in that person's possession:

(a) Radiation levels which, if an individual were continuously present in the area, could result in the individual's receiving a dose in excess of two millirems in any one hour; or

(b) Radiation levels which, if an individual were continuously present in the area, could result in the individual's receiving a dose in excess of one hundred millirems in any seven consecutive days.

(2) Any person may apply to the department for proposed limits upon levels of radiation in unrestricted areas in excess of those specified in subsection (1) of this section resulting from the applicant's possession or use of sources of radiation. Such applications should include information as to anticipated average radiation levels and anticipated occupancy times for each unrestricted area involved. The department may approve the proposed limits if the applicant demonstrates to the satisfaction of the department that the proposed limits are not likely to cause any individual to receive a dose to the whole body in any period of one calendar year in excess of 0.5 rem and that the proposed limits are consistent with WAC 246-220-007.

(3) In addition to other requirements of this part, licensees engaged in uranium fuel cycle operations subject to the provisions of 40 CFR Part 190, "Environmental Radiation Protection Standards for Nuclear Power Operation," shall comply with that part.) (1) Each licensee or registrant shall conduct operations so that:

(a) The total effective dose equivalent to individual members of the public from the licensed or registered operation does not exceed 1 mSv (0.1 rem) in a year, exclusive of the dose contribution from the licensee's or registrant's disposal of radioactive material into sanitary sewerage in accordance with WAC 246-221-190; and

(b) The dose in any unrestricted area from external sources does not exceed 0.02 mSv (0.002 rem) in any one hour.

(2) If the licensee or registrant permits members of the public to have access to restricted areas, they shall be escorted and the limits for members of the public continue to apply to those individuals.

(3) Notwithstanding subsection (1) of this section, a licensee or registrant may continue to operate a facility constructed and put into operation prior to January 1, 1994, where the annual dose limit for an individual member of the public is more than 1 mSv (0.1 rem) and less than 5 mSv (0.5 rem) total effective dose equivalent, provided:

(a) The facility's approved operating conditions for each radiation source remain the same. Any increase in the following operating conditions shall require reevaluation and/or modification of the facility shielding applicable to the source of radiation to meet the 1 mSv (0.1 rem) total effective dose equivalent limit for individual members of the public: size of the radiation source, workload, or occupancy factors associated with the source of radiation; and

(b) Any change in the permanent shielding of the facility due to remodeling, repair or replacement shall require the facility to meet the 1 mSv (0.1 rem) total effective dose equivalent limit for individual members of the public for areas affected by that portion of the shielding.

(4) Each licensee or registrant shall maintain records sufficient to demonstrate compliance with the dose limit for individual members of the public.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-070 ((Concentration in effluents released to unrestricted areas;)) Compliance with dose limits for individual members of the public. (1) ((A licensee shall not possess, use, or transfer licensed material so as to release to an unrestricted area radioactive material in concentrations which exceed the limits specified in WAC 246-221-290, Appendix A, Table II, except as authorized pursuant to subsection (2) of this section. For purposes of this section concentrations may be averaged over a period not greater than one calendar year.

(2) An application for a license or amendment may include proposed limits higher than those specified in subsection (1) of this section. The department will approve the proposed limits if the applicant demonstrates:

(a) That the applicant has made a reasonable effort to minimize the radioactivity contained in effluents released to unrestricted areas; and

(b) That it is not likely that radioactive material discharged in the effluent would result in the exposure of an individual to concentrations of radioactive material in air or water exceeding the limits specified in WAC 246-221-290, Appendix A, Table II.

(3) An application for higher limits pursuant to subsection (2) of this section shall include information demonstrating that the applicant has made a reasonable effort to minimize the radioactivity discharged in effluents to unrestricted areas, and shall include, as pertinent:

(a) Information as to flow rates, total volume of effluent, peak concentration of each radionuclide in the effluent, and concentration of each radionuclide in the effluent averaged over a period of one calendar year at the point where the effluent leaves a stack, tube, pipe, or similar conduit;

(b) A description of the properties of the effluents, including:

(i) Chemical composition;

(ii) Physical characteristics, including suspended solids content in liquid effluents, and nature of gas or aerosol for air effluents;

(iii) The hydrogen ion concentrations (pH) of liquid effluents; and

(iv) The size range of particulates in effluents released into air;

(e) A description of the anticipated human occupancy in the unrestricted area where the highest concentration of radioactive material from the effluent is expected, and, in the case of a river or stream, a description of water uses downstream from the point of release of the effluent;

(d) Information as to the highest concentration of each radionuclide in an unrestricted area, including anticipated concentrations averaged over a period of one calendar year:

(i) In air at any point of human occupancy, or

(ii) In water at points of use downstream from the point of release of the effluent;

(e) The background concentration of radionuclides in the receiving river or stream prior to the release of liquid effluent;

(f) A description of the environmental monitoring equipment, including sensitivity of the system, and proce-

dures and calculations to determine concentrations of radionuclides in the unrestricted area and possible reconcentrations of radionuclides; and

(g) ~~A description of the waste treatment facilities and procedures used to reduce the concentration of radionuclides in effluents prior to their release.~~

(4) ~~For the purposes of this section, the concentration limits in WAC 246-221-290, Appendix A, Table II of this part shall apply at the boundary of the restricted area. The concentration of radioactive material discharged through a stack, pipe or similar conduit may be determined with respect to the point where the material leaves the conduit. If the conduit discharges within the restricted area, the concentration at the boundary may be determined by applying appropriate factors for dilution, dispersion, or decay between the point of discharge and the boundary.~~

(5) ~~In addition to limiting concentrations in effluent streams, the department may limit quantities of radioactive material released in air or water during a specified period of time if it appears that the daily intake of radioactive material from air, water, or food by a suitable sample of an exposed population group, averaged over a period not exceeding one calendar year, would otherwise exceed the daily intake resulting from continuous exposure to air or water containing one third the concentration of radioactive material specified in WAC 246-221-290, Appendix A, Table II.~~

(6) ~~In addition to the limits set in subsection (1) of this section all radioactive emissions to the atmosphere must meet the requirements of chapter 246-247 WAC.~~

(7)) (1) The licensee shall make or cause to be made surveys of radiation levels in unrestricted areas and radioactive materials in effluents released to unrestricted areas to demonstrate compliance with the dose limits for individual members of the public in WAC 246-221-060.

(2) A licensee shall show compliance with the annual dose limit in WAC 246-221-060 by:

(a) Demonstrating by measurement or calculation that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed operation does not exceed the annual dose limit; or

(b) Demonstrating that:

(i) The annual average concentrations of radioactive material released in gaseous and liquid effluents at the boundary of the unrestricted area do not exceed the values specified in Table II of WAC 246-221-290; and

(ii) If an individual were continually present in an unrestricted area, the dose from external sources would not exceed 0.02 mSv (0.002 rem) in an hour and 0.50 mSv (0.05 rem) in a year.

(3) Upon approval from the department, the licensee may adjust the effluent concentration values in WAC 246-221-290, Table II, for members of the public, to take into account the actual physical and chemical characteristics of the effluents, such as, aerosol size distribution, solubility, density, radioactive decay equilibrium, and chemical form.

(4) The provisions of this section do not apply to disposal of radioactive material into sanitary sewerage systems, which is governed by WAC 246-221-190.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-080 Leak tests. (1) Each sealed radioactive source possessed under the provisions of a specific license, other than hydrogen-3 (tritium), with a half-life greater than thirty days and in any form other than gas, shall be tested and results obtained for leakage and/or contamination prior to initial use and at six-month intervals or as specified by the license, except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed three months. If at any other time there is reason to suspect that a sealed source might have been damaged, it shall be tested for leakage and results obtained before further use. In the absence of a certificate from a transferor indicating that a test for leakage has been made within six months prior to the transfer (three months for a source designed to emit alpha particles), the sealed source shall not be put into use until tested and the results received.

(2) Leak tests shall be capable of detecting the presence of 185 Bq (0.005 microcurie) of removable contamination. The results of leak tests made pursuant to subsection (1) of this section shall be recorded in units of becquerel or microcuries and shall be maintained for inspection by the department. Any test conducted pursuant to subsection (1) which reveals the presence of 185 Bq (0.005 microcurie) or more of removable contamination shall be considered evidence that the sealed source is leaking. The licensee shall immediately withdraw the source from use shall take action to prevent the spread of contamination and shall cause it to be decontaminated and repaired or to be disposed in accordance with WAC 246-232-080. If a sealed source shows evidence of leaking, a report shall be filed with the department within five days of the test, describing the equipment involved, the test results, and the corrective action taken. ((Where sealed sources are permanently mounted in devices or equipment,))

(3) Test samples shall be taken from the sealed source or from the internal surfaces or the opening of the container in which the sealed source is stored or from surfaces of devices or equipment in which the sealed source is permanently mounted. Tests for contamination and leakage may be made by wiping appropriate accessible surfaces on which one might expect contamination to accumulate and measuring these wipes for transferred contamination. Test samples shall also be taken from the interior surfaces of the container in which a sealed source of radium is stored.

((3)) (4) Leak tests are required for sealed radioactive sources that are greater than 3.7 MBq (100 microcuries) for beta and gamma ((emitters)) emitting sources and greater than 370 KBq (10 microcuries) for sources designed to emit alpha ((emitters)) particles.

(5) Tests for leakage or contamination shall be performed by persons specifically authorized by the department, an agreement state, a licensing state, or the United States Nuclear Regulatory Commission to perform such services.

AMENDATORY SECTION (Amending Order 245, filed 2/21/92, effective 3/23/92)

WAC 246-221-090 Personnel monitoring for external dose. Each licensee or registrant shall monitor occupational exposure from sources of radiation at levels sufficient to demonstrate compliance with the occupational dose limits of WAC 246-221-010, 246-221-030, 246-221-050 and 246-221-055.

(1) Each licensee or registrant shall supply ~~((appropriate personnel monitoring equipment to;))~~ and shall require the use of ~~((such equipment))~~ individual monitoring devices by:

(a) Each ~~((individual who enters a restricted area under such circumstances that the individual receives, or is))~~ adult likely to receive, in one year from sources external to the body, a dose in ~~((any calendar quarter in))~~ excess of ~~((25))~~ ten percent of the applicable ~~((value))~~ limits specified in WAC 246-221-010(1).

(b) Each ~~((individual under 18 years of age who enters a restricted area under such circumstances that the individual receives, or is))~~ minor or declared pregnant woman likely to receive, in one year from sources external to the body, a dose ~~((in any calendar quarter))~~ in excess of ~~((5))~~ ten percent of the applicable ~~((value))~~ limits specified in WAC ~~((246-221-010(1)))~~ 246-221-050 or 246-221-055.

(c) Each individual who enters a high or very high radiation area.

(2) Personnel monitoring devices assigned to an individual:

(a) Shall not intentionally be exposed to give a false or erroneous reading;

(b) Shall be assigned to one individual per exposure interval (i.e., weekly, monthly) and used to determine exposure for that individual only;

(c) Shall not be worn by any individual other than that individual originally assigned to the device;

(d) Personnel monitoring devices that are exposed while not being worn by the assigned individual shall be processed and recorded as soon as possible. A replacement monitoring device shall be assigned to the individual immediately. A record of the circumstances of the exposure shall be retained.

(3) All personnel dosimeters, ~~((except for direct and indirect reading pocket ionization chambers and those dosimeters used to measure the dose to ((hands and forearms, feet, and ankles)))~~ any extremities, that require processing to determine the radiation dose and that are utilized by licensees or registrants to comply with subsection (1) of this section, with other applicable provisions of chapters 246-220 through 246-255 WAC, or with conditions specified in a licensee's license must be processed and evaluated by a dosimetry processor:

(a) Holding current personnel dosimetry accreditation from either the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (formerly known as the National Bureau of Standards) or the United States Department of Energy Laboratory Accreditation Program for Personnel Dosimetry Systems (DOELAP); and

(b) Approved in this accreditation process for the type of radiation or radiations included in the NVLAP or DOELAP program that most closely approximate the type of

radiation or radiations for which the individual wearing the dosimeter is monitored.

(4) For the purposes of this section "dosimetry processor" means an individual or an organization that processes and evaluates personnel monitoring ~~((equipment))~~ devices in order to determine the radiation dose delivered to the ~~((equipment))~~ device.

(5) Each licensee or registrant shall maintain records of doses received by all individuals for whom monitoring was required pursuant to subsection (1) of this section, and records of doses received during planned special exposures, accidents, and emergency conditions. Assessments of dose equivalent and records made using units in effect before January 1, 1994, need not be changed. These records shall include, when applicable:

(a) The deep dose equivalent to the whole body, eye dose equivalent, shallow dose equivalent to the skin, and shallow dose equivalent to the extremities; and

(b) The total effective dose equivalent when required by WAC 246-221-015; and

(c) The total of the deep dose equivalent and the committed dose to the organ receiving the highest total dose (total organ dose equivalent).

(6) The licensee or registrant shall maintain the records specified in subsection (5) of this section on department Form RHF-5A, in accordance with the instructions provided thereon, or in clear and legible records containing all the information required by Form RHF-5A; and shall update the information at least annually.

(7) Each licensee or registrant shall ensure that individuals, for whom they are required to monitor occupational doses in accordance with subsection (1) of this section, wear individual monitoring devices as follows:

(a) An individual monitoring device used for monitoring the dose to the whole body shall be worn at the unshielded or least shielded location of the whole body likely to receive the highest exposure. When a protective apron is worn, the location of the individual monitoring device is typically at the neck (collar).

(b) Any additional individual monitoring device used for monitoring the dose to an embryo/fetus of a declared pregnant woman, pursuant to WAC 246-221-055(1), shall be located at the waist under any protective apron being worn by the woman.

(c) An individual monitoring device used for monitoring the eye dose equivalent, to demonstrate compliance with WAC 246-221-010 (1)(b)(i), shall be located at the neck (collar), outside any protective apron being worn by the monitored individual, or at an unshielded location closer to the eye.

(d) An individual monitoring device used for monitoring the dose to the extremities, to demonstrate compliance with WAC 246-221-010 (1)(b)(ii), shall be worn on the extremity likely to receive the highest exposure. Each individual monitoring device shall be oriented to measure the highest dose to the extremity being monitored.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-221-100 (~~Orders requiring furnishing bioassay services.~~) **Personnel monitoring for internal dose.** (1) Each licensee shall monitor, to determine compliance with WAC 246-221-040, the occupational intake of radioactive material by and assess the committed effective dose equivalent to:

(a) Adults likely to receive, in 1 year, an intake in excess of ten percent of the applicable ALI in Table I, Columns 1 and 2, of WAC 246-221-290; and

(b) Minors and declared pregnant women likely to receive, in one year, a committed effective dose equivalent in excess of 0.50 mSv (0.05 rem).

(2) Where necessary or desirable in order to aid in determining the extent of an individual's exposure to concentrations of radioactive material, the department may incorporate license provisions or issue an order requiring a licensee or registrant to make available to the individual appropriate bioassay services and to furnish a copy of the reports of such services to the department.

(3) Each licensee shall maintain records of doses received by all individuals for whom monitoring was required pursuant to subsections (1) and (2) of this section, and records of doses received during planned special exposures, accidents, and emergency conditions. Assessments of dose equivalent and records made using units in effect before January 1, 1994, need not be changed. These records shall include, when applicable:

(a) The estimated intake or body burden of radionuclides; and

(b) The committed effective dose equivalent assigned to the intake or body burden of radionuclides; and

(c) The specific information used to calculate the committed effective dose equivalent pursuant to WAC 246-221-040; and

(d) The total effective dose equivalent when required by WAC 246-221-015; and

(e) The total of the deep dose equivalent and the committed dose to the organ receiving the highest total dose (total organ dose equivalent).

(4) The licensee or registrant shall maintain the records specified in subsection (3) of this section on department Form RHF-5A, in accordance with the instructions provided thereon, or in clear and legible records containing all the information required by Form RHF-5A; and shall update the information at least annually.

NEW SECTION

WAC 246-221-102 Control of access to high radiation areas. (1) The licensee or registrant shall ensure that each entrance or access point to a high radiation area has one or more of the following features:

(a) A control device that, upon entry into the area, causes the level of radiation to be reduced below that level at which an individual might receive a deep dose equivalent of 1 mSv (0.1 rem) in one hour at thirty centimeters from the source of radiation or from any surface that the radiation penetrates; or

(b) A control device that energizes a conspicuous visible or audible alarm signal so that the individual entering the

high radiation area and the supervisor of the activity are made aware of the entry; or

(c) Entryways that are locked, except during periods when access to the areas is required, with positive control over each individual entry.

(2) In place of the controls required by subsection (1) of this section for a high radiation area, the licensee or registrant may substitute continuous direct or electronic surveillance that is capable of preventing unauthorized entry.

(3) The licensee or registrant may apply to the department for approval of alternative methods for controlling access to high radiation areas.

(4) The licensee or registrant shall establish the controls required by subsections (1) and (3) of this section in a way that does not prevent individuals from leaving a high radiation area.

(5) The licensee is not required to control each entrance or access point to a room or other area that is a high radiation area solely because of the presence of radioactive materials prepared for transport and packaged and labeled in accordance with the regulations of the United States Department of Transportation provided that:

(a) The packages do not remain in the area longer than three days; and

(b) The dose rate at one meter from the external surface of any package does not exceed 0.1 mSv (0.01 rem) per hour.

(6) The licensee is not required to control entrance or access to rooms or other areas in hospitals solely because of the presence of patients containing radioactive material, provided that there are personnel in attendance who are taking the necessary precautions to prevent the exposure of individuals to radiation or radioactive material in excess of the established limits and to operate within the ALARA provisions of the licensee's radiation protection program.

(7) The licensee or registrant is not required to control entrance or access to rooms or other areas as described in this section if the licensee or registrant has met all the specific requirements for access and control specified in other applicable chapters of these regulations, such as, chapter 246-243 WAC for industrial radiography, chapter 246-225 WAC for x-rays in the healing arts, and chapter 246-229 WAC for particle accelerators.

NEW SECTION

WAC 246-221-104 Control of access to very high radiation areas. (1) In addition to the requirements in WAC 246-221-102, the licensee or registrant shall institute additional measures to ensure that an individual is not able to gain unauthorized or inadvertent access to areas in which radiation levels could be encountered at five Gy (500 rad) or more in one hour at one meter from a source of radiation or any surface through which the radiation penetrates. This requirement does not apply to rooms or areas in which diagnostic x-ray systems are the only source of radiation, or to nonself-shielded irradiators.

(2) The licensee or registrant is not required to control entrance or access to rooms or other areas containing sources of radiation capable of producing a very high radiation area as described in this section if the licensee or registrant has met all the specific requirements for access and control

specified in other applicable chapters of these regulations, such as, chapter 246-243 WAC for industrial radiography, chapter 246-225 WAC for x-rays in the healing arts, and chapter 246-229 WAC for particle accelerators.

NEW SECTION

WAC 246-221-106 Control of access to very high radiation areas—Irradiators. (1) This section applies to licensees or registrants with sources of radiation in nonself-shielded irradiators. This section does not apply to sources of radiation that are used in teletherapy, in industrial radiography, or in completely self-shielded irradiators in which the source of radiation is both stored and operated within the same shielding radiation barrier and, in the designed configuration of the irradiator, is always physically inaccessible to any individual and cannot create a radiation level of five Gy (500 rad) or more in one hour at one meter in an area that is accessible to any individual.

(2) Each area in which there may exist radiation levels in excess of five Gy (500 rad) in one hour at one meter from a source of radiation that is used to irradiate materials shall meet the following requirements:

(a) Each entrance or access point shall be equipped with entry control devices which:

(i) Function automatically to prevent any individual from inadvertently entering a very high radiation area; and

(ii) Permit deliberate entry into the area only after a control device is actuated that causes the radiation level within the area, from the source of radiation, to be reduced below that at which it would be possible for an individual to receive a deep dose equivalent in excess of one mSv (0.1 rem) in one hour; and

(iii) Prevent operation of the source of radiation if it would produce radiation levels in the area that could result in a deep dose equivalent to an individual in excess of one mSv (0.1 rem) in one hour.

(b) Additional control devices shall be provided so that, upon failure of the entry control devices to function as required by (a) of this subsection:

(i) The radiation level within the area, from the source of radiation, is reduced below that at which it would be possible for an individual to receive a deep dose equivalent in excess of one mSv (0.1 rem) in one hour; and

(ii) Conspicuous visible and audible alarm signals are generated to make an individual attempting to enter the area aware of the hazard and at least one other authorized individual, who is physically present, familiar with the activity, and prepared to render or summon assistance, aware of the failure of the entry control devices.

(c) The licensee or registrant shall provide control devices so that, upon failure or removal of physical radiation barriers other than the sealed source's shielded storage container:

(i) The radiation level from the source of radiation is reduced below that at which it would be possible for an individual to receive a deep dose equivalent in excess of one mSv (0.1 rem) in one hour; and

(ii) Conspicuous visible and audible alarm signals are generated to make potentially affected individuals aware of the hazard and the licensee or registrant or at least one other individual, who is familiar with the activity and prepared to

render or summon assistance, aware of the failure or removal of the physical barrier.

(d) When the shield for stored sealed sources is a liquid, the licensee shall provide means to monitor the integrity of the shield and to signal, automatically, loss of adequate shielding.

(e) Physical radiation barriers that comprise permanent structural components, such as walls, that have no credible probability of failure or removal in ordinary circumstances need not meet the requirements of (c) and (d) of this subsection.

(f) Each area shall be equipped with devices that will automatically generate conspicuous visible and audible alarm signals to alert personnel in the area before the source of radiation can be put into operation and in time for any individual in the area to operate a clearly identified control device, which must be installed in the area and which can prevent the source of radiation from being put into operation.

(g) Each area shall be controlled by use of such administrative procedures and such devices as are necessary to ensure that the area is cleared of personnel prior to each use of the source of radiation.

(h) Each area shall be checked by a radiation measurement to ensure that, prior to the first individual's entry into the area after any use of the source of radiation, the radiation level from the source of radiation in the area is below that at which it would be possible for an individual to receive a deep dose equivalent in excess of one mSv (0.1 rem) in one hour.

(i) Entry and exit portals that are used in transporting materials to and from the irradiation area, and that are not intended for use by individuals, shall be controlled by such devices and administrative procedures as are necessary to physically protect and warn against inadvertent entry by any individual through these portals. Exit portals for irradiated materials shall be equipped to detect and signal the presence of any loose radioactive material that is carried toward such an exit and automatically to prevent loose radioactive material from being carried out of the area.

(3) The entry control devices required in subsection (2)(a) of this section shall be tested for proper functioning:

(a) Prior to initial operation with the source of radiation on any day, unless operations were continued uninterrupted from the previous day; and

(b) Prior to resumption of operation of the source of radiation after any unintentional interruption; and

(c) In accordance with a schedule for periodic tests of the entry control and warning systems submitted by the licensee or registrant and approved by the department.

(4) The licensee or registrant shall not conduct operations, other than those necessary to place the source of radiation in safe condition or to effect repairs on controls, unless control devices are functioning properly.

(5) Licensees, registrants, or applicants for licenses or registrations for sources of radiation within the purview of subsection (2) of this section which will be used in a variety of positions or in locations, such as open fields or forests, that make it impracticable to comply with certain requirements of subsection (2) of this section, such as those for the automatic control of radiation levels, may apply to the department for approval of alternative safety measures. Alternative safety measures shall provide personnel protec-

tion at least equivalent to those specified in subsection (2) of this section. At least one of the alternative measures shall include an entry-preventing interlock control based on a measurement of the radiation that ensures the absence of high radiation levels before an individual can gain access to the area where such sources of radiation are used.

(6) The entry control devices required by subsections (2) and (3) of this section shall be established in such a way that no individual will be prevented from leaving the area.

(7) The licensee shall maintain records of tests made pursuant to subsection (3) of this section on entry control devices for very high radiation areas. These records shall include the date, time, and results of each such test of function.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-110 Surveys. (1) Each licensee or registrant shall make or cause to be made such surveys, as defined in WAC 246-220-010, as may be necessary for the licensee or registrant to establish compliance with these regulations and are reasonable under the circumstances to evaluate radiation levels, concentrations or quantities of radioactive material, and the extent of potential radiation hazards that may be present. Records of such surveys shall be preserved as specified in WAC 246-221-230. Information on performing surveys may be found in the United States Nuclear Regulatory Commission's Regulatory Guide 8.23.

(2) The licensee shall ensure that instruments and equipment used for quantitative radiation measurements, for example, dose rate and effluent monitoring, are calibrated annually at intervals not to exceed thirteen months for the radiation measured.

NEW SECTION

WAC 246-221-113 Use of process, engineering or other controls. (1) The licensee shall use, to the extent practicable, process or other engineering controls, such as, containment or ventilation, to control the concentrations of radioactive material in air.

(2) When it is not practicable to apply process or other engineering controls to control the concentrations of radioactive material in air to values below those that define an airborne radioactivity area, the licensee shall, consistent with maintaining the total effective dose equivalent ALARA, increase monitoring and limit intakes by one or more of the following means:

- (a) Control of access; or
- (b) Limitation of exposure times; or
- (c) Use of respiratory protection equipment; or
- (d) Other controls.

NEW SECTION

WAC 246-221-117 Use of individual respiratory protection equipment. (1) If the licensee uses respiratory protection equipment to limit intakes pursuant to WAC 246-221-113:

(a) The licensee shall use only respiratory protection equipment that is:

(i) Tested and certified or had certification extended by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration; or

(ii) Approved by the department on the basis of the licensee's submittal of an application for authorized use of other respiratory protection equipment, including a demonstration by testing, or a demonstration on the basis of reliable test information, that the material and performance characteristics of the equipment are capable of providing the proposed degree of protection under anticipated conditions of use.

(b) The licensee shall implement and maintain a respiratory protection program that includes:

(i) Air sampling sufficient to identify the potential hazard, permit proper equipment selection, and estimate exposures; and

(ii) Surveys and bioassays, as appropriate, to evaluate actual intakes; and

(iii) Testing of respirators for operability immediately prior to each use; and

(iv) Written procedures regarding selection, fitting, issuance, maintenance, cleaning, repair, and testing of respirators, including testing for operability immediately prior to each use; supervision and training of personnel; monitoring, including air sampling and bioassays; and recordkeeping; and

(v) Determination by a physician prior to initial fitting of respirators, and at least every twelve months thereafter, that the individual user is physically able to use the respiratory protection equipment.

(c) The licensee shall issue a written policy statement on respirator usage covering:

(i) The use of process or other engineering controls, instead of respirators; and

(ii) The routine, nonroutine, and emergency use of respirators; and

(iii) The length of periods of respirator use and relief from respirator use.

(d) The licensee shall advise each respirator user that the user may leave the area at any time for relief from respirator use in the event of equipment malfunction, physical or psychological distress, procedural or communication failure, significant deterioration of operating conditions, or any other conditions that might require such relief.

(e) The licensee shall use equipment within the equipment manufacturer's expressed limitations for type and mode of use and shall provide proper visual, communication, and other special capabilities, such as adequate skin protection, when needed.

(2) When estimating exposure of individuals to airborne radioactive materials, the licensee may make allowance for respiratory protection equipment used to limit intakes pursuant to WAC 246-221-113, provided that the following conditions, in addition to those in subsection (1) of this section, are satisfied:

(a) The licensee selects respiratory protection equipment that provides a protection factor, specified in WAC 246-221-285, greater than the multiple by which peak concentrations of airborne radioactive materials in the working area are expected to exceed the values specified in WAC 246-221-290, Table I, Column 3. However, if the selection of respiratory protection equipment with a protection factor

greater than the peak concentration is inconsistent with the goal specified in WAC 246-221-113 of keeping the total effective dose equivalent ALARA, the licensee may select respiratory protection equipment with a lower protection factor provided that such a selection would result in a total effective dose equivalent that is ALARA. The concentration of radioactive material in the air that is inhaled when respirators are worn may be initially estimated by dividing the average concentration in air, during each period of uninterrupted use, by the protection factor. If the exposure is later found to be greater than initially estimated, the corrected value shall be used; if the exposure is later found to be less than initially estimated, the corrected value may be used.

(b) The licensee shall obtain authorization from the department before assigning respiratory protection factors in excess of those specified in WAC 246-221-285. The department may authorize a licensee to use higher protection factors on receipt of an application that:

(i) Describes the situation for which a need exists for higher protection factors, and

(ii) Demonstrates that the respiratory protection equipment provides these higher protection factors under the proposed conditions of use.

(3) In an emergency, the licensee shall use as emergency equipment only respiratory protection equipment that has been specifically certified or had certification extended for emergency use by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration.

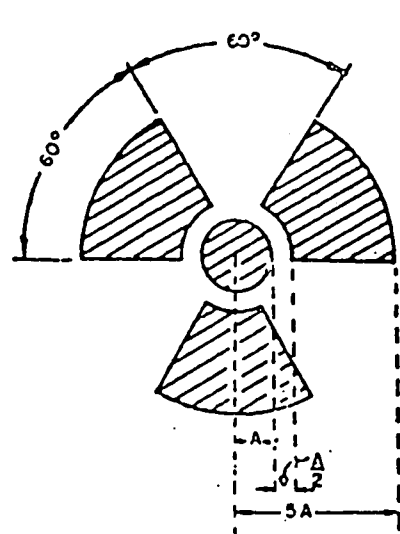
(4) Unless already authorized by license condition, the licensee shall notify the department in writing at least thirty days before the date that respiratory protection equipment is first used pursuant to either subsection (1) or (2) of this section.

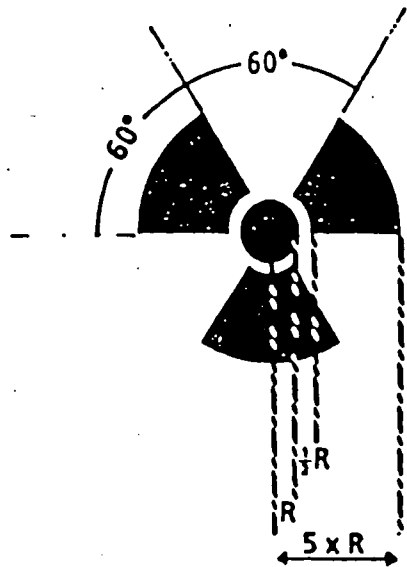
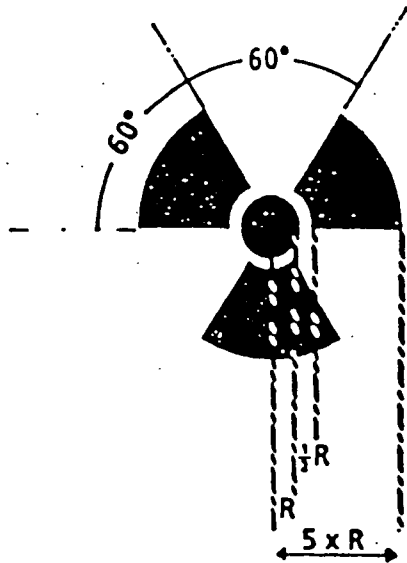
AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-120 Caution signs, and labels (and signals)). (1) ~~((General.))~~ The radiation symbol shall be used on all signs, labels, or other written means of warning individuals concerning radiation hazards.

(a) ~~((Except as otherwise authorized by the department, symbols prescribed by this section shall use the conventional radiation caution colors (magenta or purple on yellow background).))~~ The symbol prescribed by this section is the conventional three-blade design: Radiation symbol

- ~~((i) Cross-hatch area is to be magenta or purple.~~
- ~~((ii) Background is to be yellow.~~





(b) The symbol prescribed by this section shall be:

(i) Magenta, purple, or black on a yellow background;

or
 (ii) Conspicuously etched or stamped without regard to a color requirement on sources, source holders or device components containing sources which are subjected to extreme environmental conditions which would cause the color to deteriorate.

(2) The conventional radiation symbol as described in ~~((a) of this)~~ subsection (1) of this section shall be used only for:

~~((i))~~ (a) Instructing individuals to be cognizant of a potential radiation hazard as prescribed in ~~((e))~~ subsections (4) through ~~((j))~~ (10) of this ~~((subsection))~~ section.

~~((ii))~~ (b) Indicating that information presented pertains to the topic of radiation.

~~((e))~~ (3) In addition to the contents of signs and labels prescribed in this section, a licensee or registrant may provide on or near such signs and labels any additional

information which may be appropriate in aiding individuals to minimize exposure to radiation.

~~((4))~~ (4) Each radiation area and entrance thereto shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words: CAUTION* - RADIATION AREA. However, in an exceptionally large room where other activities of a nonradiological nature are conducted the entrance need not be posted provided a conspicuous barricade with an appropriate number of signs is established to delineate the radiation area.

((Note: *The word "DANGER" may be substituted for "CAUTION" on signs required by (d) through (h) of this subsection.

~~(e) High radiation areas.~~

~~((i))~~ (5) Each high radiation area and all entrances thereto shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words: CAUTION* - HIGH RADIATION AREA or DANGER - HIGH RADIATION AREA. To avoid unnecessary exposure, the licensee or registrant may satisfy this requirement by posting the sign at the estimated location or vicinity of the high radiation area.

~~((ii) Each entrance or access point to a high radiation area shall be:~~

~~(A) Equipped with a control device which shall cause the level of radiation to be reduced below that at which an individual might receive a dose of one hundred millirems in one hour upon entry into the area; or~~

~~(B) Equipped with a control device which shall energize a conspicuous visible or audible alarm signal in such a manner that the individual entering the high radiation area and the licensee or a supervisor of the activity are made aware of the entry; or~~

~~(C) Maintained locked except during periods when access to the area is required, with positive control over each individual entry.~~

~~((iii) The controls required by (e)(ii) of this subsection shall be established in such a way that no individual will be prevented from leaving a high radiation area.~~

~~((iv) In the case of a high radiation area established for a period of thirty days or less, direct surveillance to prevent unauthorized entry may be substituted for the controls required by (e)(ii) of this subsection. Direct surveillance requires the continuous physical presence of an individual capable of taking all necessary precautions to prevent unwarranted exposure of individuals.~~

~~((v) Any licensee or registrant may apply to the department for approval of methods not included in (e)(ii) and (iv) of this subsection for controlling access to high radiation areas. The department will approve the proposed alternatives if the licensee or registrant demonstrates that the alternative methods of control will prevent unauthorized entry into a high radiation area, and that the requirement of (e)(ii) of this subsection is met.~~

~~(vi) Very high radiation areas:~~

~~(A) Each area in which there may exist radiation levels in excess of five hundred rems in one hour at one meter from a sealed radioactive source² that is used to irradiate materials shall:~~

~~(I) Have each entrance or access point equipped with entry control devices which shall function automatically to prevent any individual from inadvertently entering the area~~

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when such radiation levels exist; permit deliberate entry into the area only after a control device is actuated that shall cause the radiation level within the area, from the sealed source, to be reduced below that at which it would be impossible for an individual to receive a dose in excess of one hundred mrem in one hour; and prevent operation of the source if the source would produce radiation levels in the area that could result in a dose to an individual in excess of one hundred mrem in one hour. The entry control devices required by (e)(vi)(A) of this subsection shall be established in such a way that no individual will be prevented from leaving the area.

(II) Be equipped with additional control devices such that upon failure of the entry control devices to function as required by (e)(vi)(A)(I) of this subsection the radiation level within the area, from the sealed source, shall be reduced below that at which it would be possible for an individual to receive a dose in excess of one hundred mrem in one hour; and visible and audible alarm signals shall be generated to make an individual attempting to enter the area aware of the hazard and the licensee or at least one other individual who is familiar with the activity and prepared to render or summon assistance, aware of such failure of the entry control devices;

(III) Be equipped with control devices such that upon failure or removal of physical radiation barriers other than the source's shielded storage container the radiation level from the source shall be reduced below that at which it would be possible for an individual to receive a dose in excess of one hundred mrem in one hour; and visible and audible alarm signals shall be generated to make potentially affected individuals aware of the hazard and the licensee or at least one other individual, who is familiar with the activity and prepared to render or summon assistance, aware of the failure or removal of the physical barrier. When the shield for the stored source is a liquid, means shall be provided to monitor the integrity of the shield and to signal, automatically, loss of adequate shielding. Physical radiation barriers that comprise permanent structural components, such as walls, that have no credible probability of failure or removal in ordinary circumstances need not meet the requirements of (e)(vi)(A)(III) of this subsection;

(IV) Be equipped with devices that will automatically generate visible and audible alarm signals to alert personnel in the area before the source can be put into operation and in sufficient time for any individual in the area to operate a clearly identified control device which shall be installed in the area and which can prevent the source from being put into operation;

(V) Be controlled by use of such administrative procedure and such devices as are necessary to assure that the area is cleared of personnel prior to each use of the source preceding which use it might have been possible for an individual to have entered the area;

(VI) Be checked by a physical radiation measurement to assure that prior to the first individual's entry into the area after any use of the source, the radiation level from the source in the area is below that at which it would be possible for an individual to receive a dose in excess of one hundred mrem in one hour;

(VII) Have entry control devices required in (e)(vi)(A)(I) of this subsection which have been tested for proper

functioning prior to initial operation with such source of radiation on any day that operations are not uninterruptedly continued from the previous day or before resuming operations after any unintended interruption, and for which records are kept of the dates, times, and results of such tests of function. No operations other than those necessary to place the source in safe condition or to effect repairs on controls shall be conducted with such source unless control devices are functioning properly. The licensee shall submit an acceptable schedule for more complete periodic tests of the entry control and warning systems to be established and adhered to as a condition of the license;

(VIII) Have those entry and exit portals that are used in transporting materials to and from the irradiation area, and that are not intended for use by individuals, controlled by such devices and administrative procedures as are necessary to physically protect and warn against inadvertent entry by any individual through such portals. Exit portals for processed materials shall be equipped to detect and signal the presence of loose radiation sources that are carried toward such an exit and to automatically prevent such loose sources from being carried out of the area.

(B) Licensees with, or applicants for, licenses for radiation sources that are within the purview of (e)(vi)(A) of this subsection, and that must be used in a variety of positions or in peculiar locations, such as open fields or forests, that make it impracticable to comply with certain requirements of (e)(vi)(A) of this subsection, such as those for the automatic control of radiation levels, may apply to the department for approval, prior to use of safety measures that are alternative to those specified in (e)(vi)(C) of this subsection, and that will provide at least an equivalent degree of personnel protection in the use of such sources. At least one of the alternative measures must include an entry preventing interlock control based on a physical measurement of radiation that assures the absence of high radiation levels before an individual can gain access to an area where such sources are used.

~~(f) Airborne radioactivity areas.)~~ (6) Each very high radiation area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words: GRAVE DANGER - VERY HIGH RADIATION AREA. To avoid unnecessary exposure, the licensee or registrant may satisfy this requirement by posting the sign at the estimated location or vicinity of the very high radiation area.

(7) Each airborne radioactivity area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words: CAUTION* - AIRBORNE RADIOACTIVITY AREA or DANGER - AIRBORNE RADIOACTIVITY AREA.

~~((g) Additional requirements.~~

~~(i))~~ (8) Each area or room in which any radioactive material((, other than natural uranium or thorium;)) is used or stored in an amount exceeding 10 times the quantity of radioactive material specified in ((Appendix B of this part)) WAC 246-221-300 shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words: CAUTION* - RADIOACTIVE MATERIAL or DANGER - RADIOACTIVE MATERIAL.

~~((ii) Each area or room in which natural uranium or thorium is used or stored in an amount exceeding one hundred times the quantity specified in Appendix B of this~~

part shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words: CAUTION* - RADIOACTIVE MATERIAL.

~~(h) Containers and articles.~~

~~(i) Except as provided in this section,)) (9) Each container of radioactive material shall bear a durable, clearly visible label identifying the radioactive contents((-~~

~~(ii) A label required pursuant to (h)(i) of this subsection shall bear)) including:~~

~~(a) The radiation caution symbol and the words: CAUTION* - RADIOACTIVE MATERIAL OR DANGER - RADIOACTIVE MATERIAL. ((It shall also provide))~~

~~(b) Sufficient information to permit individuals handling or using the containers, or working in the vicinity thereof, to take precautions to avoid or minimize exposures((-~~

~~As appropriate, the information will include)), such as radionuclides present, radiation levels, ((kinds of material,)) estimate of activity((-, date for which activity is estimated)) and mass enrichment.~~

~~((+)) (c) Where containers are used for storage, ((the labels required in this subdivision shall state also)) the quantities and kinds of radioactive materials in the containers and the date of measurement of the quantities.~~

~~((+)) (10) All radiation machines shall be labeled in a conspicuous manner ((which cautions)) so as to caution individuals that radiation is produced when the machine is being operated.~~

~~((2) Notwithstanding the provisions of subsection (1)(h), (i) of this section labeling is not required:~~

~~(a) For laboratory containers, such as beakers, flasks, and test tubes, used transiently in laboratory procedures when the person using such containers is present. For such containers a label identifying the radioactive contents is not required.~~

~~(b) For containers that do not contain radioactive material in quantities greater than the applicable quantities listed in WAC 246-221-300, Appendix B.~~

~~(c) For containers containing only natural uranium or thorium in quantities no greater than ten times the applicable quantities listed in WAC 246-221-300, Appendix B.~~

~~(d) For containers that do not contain radioactive material in concentrations greater than the applicable concentrations listed in WAC 246-221-290, Column 2, Table I, Appendix A.~~

~~(e) For containers when they are attended by an individual who takes the precautions necessary to prevent the exposure of any individual to radiation or radioactive material in excess of the limits established by the regulations in this part;~~

~~(f) For containers when they are in transport and packaged and labeled in accordance with regulations published by the United States Department of Transportation;~~

~~(g) For containers which are accessible only to individuals authorized to handle or use them* or to work in the vicinity thereof, provided that the contents are identified to such individuals by a readily available written record;~~

Note: *For example, containers in locations such as water-filled canals, storage vaults, or hot cells.

~~(h) For manufacturing and process equipment such as piping and tanks.~~

~~(3) Each licensee, prior to disposal of an empty container which previously held radioactive material shall properly survey for contamination and remove or deface the radioactive material label or otherwise clearly indicate that the container no longer contains radioactive materials.~~

~~⁷This paragraph does not apply to radioactive sources that are used in teletherapy, in radiography, or in completely self shielded irradiators in which the source is both stored and operated within the same shielding radiation barrier and, in the designed configuration of the irradiator, is always physically inaccessible to any individual and cannot create high levels of radiation in an area that is accessible to any individual. This paragraph also does not apply to sources from which the radiation is incidental to some other use nor to nuclear reactor generated radiation other than radiation from byproduct, source, or special nuclear materials that are used in sealed sources in nonself shielded irradiators.))~~

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-130 Exceptions from posting and labeling requirements. (1) A room or area is not required to be posted with a caution sign because of the presence of a sealed source, provided the radiation level ((30.5)) 30 centimeters from the surface of the source container or housing does not exceed 0.05 mSv (five millirem) per hour.

(2) Rooms or other areas in hospitals are not required to be posted with caution signs((- and control of entrance or access thereto pursuant to WAC 246-221-120 (1)(c) is not required,)) because of the presence of patients containing ((less than 30 millieuries of)) radioactive material provided that ((there are personnel in attendance who will take the precautions necessary to prevent the exposure of any individual to radiation or radioactive material in excess of the limits established in the regulations in this chapter)) confinement is not required pursuant to chapters 246-239 and 246-240 WAC.

(3) Caution signs are not required to be posted in areas or rooms containing radioactive material for periods of less than eight hours provided that:

(a) The material is constantly attended during such periods by an individual who shall take the precautions necessary to prevent the exposure of any individual to radiation or radioactive material in excess of the limits established in this part; and

(b) Such area or room is subject to the licensee's or registrant's control.

(4) A room or other area is not required to be posted with a caution sign((- and control is not required for each entrance or access point to a room or other area which is used solely for the storage)) because of the presence of radioactive material prepared for transport and packaged and labeled in accordance with regulations of the United States Department of Transportation.

(5) ((Rooms with x ray equipment may not be required to be posted with caution signs provided that access is controlled.)) A room or area is not required to be posted with a caution sign because of the presence of a diagnostic x-ray system used solely for healing arts purposes.

(6) The interior of a teletherapy room is not required to be posted with caution signs provided such posting is conspicuously placed at the entrance(s) to the rooms.

(7) A licensee is not required to label:

(a) Containers holding licensed material in quantities less than the quantities listed in WAC 246-221-300; or

(b) Containers holding licensed material in concentrations less than those specified in WAC 246-221-290, Table III; or

(c) Containers attended by an individual who takes the precautions necessary to prevent the exposure of any individual to radiation or radioactive material in excess of the limits established by this chapter; or

(d) Containers when they are in transport and packaged and labeled in accordance with the regulations of the United States Department of Transportation; or

(e) Containers such as those located in water-filled canals, storage vaults, or hot cells, that are accessible only to individuals authorized to handle or use them, or to work in the vicinity of the containers, provided the contents are identified to these individuals by a readily available written record. The record shall be retained as long as the containers are in use for the purpose indicated on the record; or

(f) Installed manufacturing or process equipment, such as chemical process equipment, piping, and tanks.

(8) Each licensee, prior to removal or disposal of empty uncontaminated containers to unrestricted areas, shall remove or deface the radioactive material label or otherwise clearly indicate that the container no longer contains radioactive materials.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-221-150 Security and control of stored radioactive material and radiation machines. (1) Licensed radioactive materials and registered radiation machines shall be secured from, or controlled in such a manner so as to prevent, unauthorized access or removal from the place of storage.

(2) Licensed radioactive materials in an unrestricted area and not in storage shall be tended under the constant surveillance and immediate control of the licensee.

(3) Registered radiation machines in an unrestricted area and not in storage shall be under the control of the registrant.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-160 Procedures for picking up, receiving, and opening packages. (1)(a) Each licensee ((or registrant)) who expects to receive a package containing quantities of radioactive material in excess of the Type A₁ or A₂ quantities specified in WAC 246-220-110 shall make arrangements to receive:

(i) ((If the package is to be delivered to the licensee's or registrant's facility by the carrier, make arrangements to receive)) The package when it is offered for delivery by the carrier; or

(ii) ((If the package is to be picked up by the licensee or registrant at the carrier's terminal, make arrangements to receive)) Immediate notification from the carrier of the arrival of the package at the carrier's terminal.

(b) Each licensee ((or registrant)) who picks up a package of radioactive material from a carrier's terminal

shall pick up the package expeditiously upon receipt of notification from the carrier of its arrival.

(2)((~~a~~)) Each licensee ((or registrant, upon receipt of a package of radioactive material, shall monitor the external surfaces of the package for radioactive contamination caused by leakage of the radioactive contents, except:

(i) Packages containing less than one hundred times the quantity of nuclide(s) specified in WAC 246-232-120, Schedule B;

(ii) Packages containing no more than 10 millicuries of radioactive material consisting solely of tritium, carbon-14, sulfur-35, or iodine-125;

(iii) Packages containing only radioactive material as gases or in special form;

(iv) Packages containing only radioactive material in other than liquid form (including Mo-99/Tc-99m generators) and not exceeding the Type A₁ or A₂ quantity limit specified in WAC 246-220-110; and

(v) Packages containing only radionuclides with half-lives of less than 30 days and a total quantity of no more than 100 millicuries.

The monitoring shall be performed)) shall:

(a) Monitor for radioactive contamination the external surfaces of any package labeled with a Radioactive White I, Yellow II or Yellow III label unless the package contains only radioactive material in the form of gas or in special form as defined in WAC 246-220-010 and 246-220-120; and

(b) Monitor the radiation levels of the external surfaces of any package labeled with a Radioactive White I, Yellow II or Yellow III label unless the package contains quantities of radioactive material that are less than or equal to the Type A quantity, as defined in WAC 246-220-110; and

(c) Monitor all packages known to contain radioactive material for radioactive contamination and radiation levels if the package has evidence of potential contamination, such as packages that are crushed, wet, or damaged.

(3) The monitoring shall be performed:

(a) Immediately upon receipt if there is evidence of package degradation or any other evidence of potential contamination or excessive radiation levels; or

(b) As soon as practicable after receipt, but no later than three hours after the package is received at the licensee's facility if received during the licensee's normal working hours, or no later than three hours from the beginning of the next working day if received after normal working hours.

((~~b~~)) If removable radioactive contamination in excess of 0.01 microcurie (22,200 transformations per minute) per one hundred square centimeters of package surface is found on the external surfaces of the package, the licensee shall immediately notify by telephone, telegraph, mailgram or facsimile, the final delivering carrier, shipper and the department.

(3)(a) Each licensee or registrant, upon receipt of a package containing quantities of radioactive material in excess of the Type A₁ or A₂ quantities specified in WAC 246-220-110, other than those transported by exclusive use vehicle, shall monitor the radiation levels external to the package. The package shall be monitored as soon as practicable after receipt, but no later than three hours after the package is received at the licensee's facility if received during the licensee's normal working hours, and no later

than three hours from the beginning of the next working day if received after normal working hours.

~~(b) If radiation levels are found on the external surface of the package in excess of two hundred millirem per hour, or at one meter from the external surface of the package in excess of ten millirem per hour, the licensee or registrant shall immediately notify, by telephone, telegraph, mailgram or facsimile, the shipper, the final delivering carrier and the department.))~~

(4) The licensee shall immediately notify the final delivery carrier and, by telephone and telegram, mailgram, or facsimile, the department when:

(a) For normal shipments, removable radioactive surface contamination exceeds either 22 dpm/cm² for beta-gamma emitting radionuclides, all radionuclides with half-lives less than ten days, natural uranium, natural thorium, uranium-235, uranium-238, thorium-232, and thorium-228 and thorium 230 when contained in ores or concentrates; or 2.2 dpm/cm² for all other alpha emitting radionuclides; or

(b) For exclusive use shipments, removable radioactive surface contamination exceeds either 220 dpm/cm² for beta-gamma emitting radionuclides, all radionuclides with half-lives less than ten days, natural uranium, natural thorium, uranium-235, uranium-238, thorium-232, and thorium-228 and thorium 230 when contained in ores or concentrates; or 22 dpm/cm² for all other alpha emitting radionuclides; or

(c) For normal or exclusive use shipments, external radiation levels exceed two mSv/hour (200 millirem per hour) at any point on the external surface of the package; or

(d) For exclusive use shipments where the shipment is made in a closed transport vehicle, packages are secured in a fixed position, and no loading or unloading occurs between the beginning and end of transportation, external radiation levels exceed ten mSv/hour (1000 millirem per hour) at any point on the external surface of the package.

(5) Each licensee (~~or registrant~~) shall establish and maintain procedures for safely opening packages in which radioactive material is received, and shall assure that such procedures are followed and that due consideration is given to instructions for the type of package being opened and the monitoring of potentially contaminated packaging material (including packages containing radioactive material in gaseous form) to assure that only background levels of radiation are present prior to disposal of such material as nonradioactive waste. (~~In addition, this shall include a wipe sample of the outside of any inner package which contains a liquid or dispersible radionuclide (radioactive wastes shall be exempted). Copies of such written procedures shall be retained for inspection by the department.~~)

(6) Licensees transferring special form sources to and from a work site in vehicles owned or operated by the licensee are exempt from the contamination monitoring requirements of subsection (2)(a) of this section but are not exempt from the monitoring requirement in subsection (2)(b) of this section for measuring radiation levels to ensure that the source is still properly lodged in its shield.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-170 Waste disposal, general requirement. (1) No licensee shall dispose of any radioactive material except:

~~((+))~~ (a) By transfer to an authorized recipient as provided in WAC 246-232-080, or chapter 246-249 WAC; or

~~((2))~~ (b) As authorized pursuant to WAC 246-221-070, 246-221-180, 246-221-190, ~~((or))~~ 246-221-200, 246-221-210, or 246-221-220.

(c) By decay in storage as authorized in a specific license.

(2) A person shall be specifically licensed to receive waste containing licensed material from other persons for:

(a) Treatment prior to disposal; or

(b) Treatment or disposal by incineration; or

(c) Decay in storage; or

(d) Disposal at a land disposal facility licensed pursuant to chapter 246-250 WAC; or

(e) Storage until transferred to a disposal facility authorized to receive the waste.

(3) Nothing in chapter 246-221 WAC relieves the licensee from complying with other applicable federal, state, and local regulations governing any other toxic or hazardous properties of materials that may be disposed pursuant to this chapter.

(4) Each licensee shall maintain records of all transfers and disposals of radioactive material.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-221-180 Method of obtaining approval of proposed disposal procedures. Any person may apply to the department for approval of proposed procedures to dispose of radioactive material in a manner not otherwise authorized in this chapter. Each application shall contain a description of the radioactive material, including the quantities and kinds of radioactive material and levels of radioactivity involved, the physical and chemical properties that have an impact on risk evaluation, and the proposed manner and conditions of disposal. The application, where appropriate, shall also include an analysis and evaluation of pertinent information as to the nature of the environment, including topographical, geological, meteorological, and hydrological characteristics; usage of ground and surface waters in the general area; the nature and location of other potentially affected facilities; analyses and procedures to ensure that doses are maintained ALARA within the dose limits of this chapter; and procedures to be observed to minimize the risk of unexpected or hazardous exposures.

The department will not approve any application for a license to receive radioactive material from other persons for disposal on land not owned by a state or the federal government.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-190 Disposal by release into sanitary sewerage systems. (1) No licensee shall discharge radioactive material into a sanitary sewerage system unless:

~~((1))~~ (a) It is readily soluble or it is biological material which is readily dispersible in water;

~~((2))~~ ~~The quantity of any radioactive material released into the system by the licensee in any one day does not exceed the larger of:~~

~~(a) The quantity which, if diluted by the average daily quantity of sewage released into the sewer by the licensee, will result in an average concentration not greater than the limits specified in WAC 246-221-290, Appendix A, Table I, Column 2; or~~

~~(b) Ten times the quantity of such material specified in WAC 246-221-300, Appendix B of this part;~~

~~((3))~~ (b) The quantity of any radioactive material released in any one month, if diluted by the average monthly quantity of water released by the licensee, will not result in an average concentration exceeding the limits specified in WAC 246-221-290, ~~((Appendix A, Table I, Column 2))~~ Table III; and

~~((4))~~ ~~The gross quantity of all radioactive material except hydrogen 3 and carbon 14 released into the sewerage system by the licensee does not exceed one curie (1Ci) per year. The amount released into the sewerage system for hydrogen 3 shall not exceed 5 curies per year and for carbon 14 shall not exceed 1 curie per year.)~~ (c) The sum of the fractions for each radionuclide, if more than one radionuclide is released, will not exceed unity; where the fraction for each radionuclide is determined by dividing the actual monthly average concentration of each radionuclide released by the licensee into the sewer by the concentration of that radionuclide listed in Table III of WAC 246-221-290; and

(d) The total quantity of licensed and other radioactive material that the licensee releases into the sanitary sewerage system in a year does not exceed 185 GBq (5 Ci) of hydrogen-3, 37 GBq (1 Ci) of carbon-14, and 37 GBq (1 Ci) of all other radioactive materials combined.

(2) Excreta from individuals undergoing medical diagnosis or therapy with radioactive material shall be exempt from any limitations contained in this section (~~Provided, That the licensee provides for appropriate radiological monitoring whenever any waste line in the licensee's installation which may carry such excreta is opened~~).

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-220 Disposal of specific wastes. (1) Any licensee may dispose of the following licensed material without regard to its radioactivity:

~~((1))~~ (a) 1.85 KBq (0.05 microcuries) or less of hydrogen-3 or carbon-14, per gram of medium, used for liquid scintillation counting; and

~~((2))~~ (b) 1.85 KBq (0.05 microcuries) or less of hydrogen-3 or carbon-14, per gram of animal tissue averaged over the weight of the entire animal (~~Provided however, Tissue may not be disposed~~).

(2) The licensee shall not dispose of tissue under this section in a manner that would permit its use either as food for humans or as animal feed; and

(3) Nothing in this section, however, relieves the licensee of maintaining records showing the receipt, transfer and disposal of such byproduct material as specified in WAC 246-220-020; and

(4) Nothing in this section relieves the licensee from complying with other applicable federal, state and local regulations governing any other toxic or hazardous property of these materials.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-230 Records ~~((of surveys, radiation monitoring, and disposal))~~ important to radiation safety.

~~(1) ((Each licensee or registrant shall maintain records showing the radiation exposures of all individuals for whom personnel monitoring is required under WAC 246-221-090. Such records shall be kept on state of Washington current occupational external radiation exposure (Form RHF 5), in accordance with the instructions contained in that form, or on clear and legible records containing all the information required by Form RHF 5. The doses entered on the forms or records shall be for periods of time not exceeding one calendar quarter.~~

(2) Each licensee or registrant shall maintain records in the same units used in this part, showing the results of surveys required by WAC 246-221-110 monitoring required by WAC 246-221-160, and disposals made under WAC 246-221-180, 246-221-190, 246-221-200, 246-221-210, and 246-221-220.

~~(3)(a) Records of individual exposure to radiation and to radioactive material which must be maintained pursuant to the provisions of subsection (1) of this section and records of bioassays, including results of whole body counting examinations made pursuant to WAC 246-221-100, shall be preserved indefinitely or until the department authorizes their disposal.~~

~~(b) Records of the results of surveys and monitoring which must be maintained pursuant to subsection (2) of this section shall be preserved for two years after completion of the survey except that the following records shall be maintained until the department authorizes their disposition:~~

~~(i) Records of the results of surveys to determine compliance with WAC 246-221-040;~~

~~(ii) In the absence of personnel monitoring data, records of the results of surveys to determine external radiation dose;~~

~~(iii) Records of the results of surveys used to evaluate the release of radioactive effluents to the environment.~~

~~(4) Records of disposal of licensed material made pursuant to WAC 246-221-180, 246-221-190, 246-221-200, 246-221-210, or 246-221-220 shall be maintained until the department authorizes their disposition.)~~ Each licensee or registrant shall make and retain records of activities, program reviews, measurements, and calculations which may be necessary to determine the extent of occupational and public exposure from sources of radiation under the control of the licensee or registrant.

(2) Each record required by this section shall be legible throughout the specified retention period.

(3) Each licensee or registrant shall use the SI units: Becquerel, gray, sievert and coulomb per kilogram, or the special units: Curie, rad, rem, and roentgen, including multiples and subdivisions, and shall clearly indicate the units of all quantities on records required by these regulations.

(4) The licensee or registrant shall make a clear distinction among the quantities entered on the records required by these regulations such as, total effective dose equivalent, total organ dose equivalent, shallow dose equivalent, eye dose equivalent, deep dose equivalent, or committed effective dose equivalent.

(5) Records which must be maintained pursuant to this part (~~may~~) shall be the original or a reproduced copy or microform if such reproduced copy or microform is duly authenticated by authorized personnel and the microform is capable of producing a clear and legible copy after storage for the period specified by department regulations. The record may also be stored in electronic media with the capability for producing legible, accurate, and complete records during the required retention period. Electronic media data storage systems shall incorporate standard or universally recognized security measures. Records, such as letters, drawings, and specifications, shall include all pertinent information, such as stamps, initials, and signatures.

(6) The licensee shall maintain adequate safeguards against tampering with and loss of records.

(7) The licensee or registrant shall retain the following required records until the department terminates each pertinent license or registration requiring the record, and upon termination of the license or registration, the licensee or registrant shall store for at least thirty years:

(a) Records of prior occupational dose and exposure history as recorded on department Form RHF-4 or RHF-4A, or equivalent;

(b) Records on department Form RHF-5 or RHF-5A, or equivalent, of doses received by all individuals for whom monitoring was required pursuant to WAC 246-221-090 and 246-221-100;

(c) Records of doses received during planned special exposures, accidents, and emergency conditions;

(d) The specific information used to calculate the committed effective dose equivalent pursuant to WAC 246-221-040(3);

(e) Records of the results of surveys to determine the dose from external sources of radiation used, in the absence of or in combination with individual monitoring data, in the assessment of individual dose equivalents;

(f) Records of the results of measurements and calculations used to determine individual intakes of radioactive material and used in the assessment of internal dose;

(g) Records showing the results of air sampling, surveys, and bioassays required pursuant to WAC 246-221-117 (1)(b)(i) and (ii);

(h) Records of the results of measurements and calculations used to evaluate the release of radioactive effluents to the environment.

(8) The licensee or registrant shall retain the following records until the department terminates the pertinent license or registration requiring the record:

(a) Records of waste disposal made under the provisions of WAC 246-221-180, 246-221-190, 246-221-210 and 246-

221-220, chapter 246-249 WAC, and any burials in soil as previously authorized;

(b) Records of dose to individual members of the public as required by WAC 246-221-060(4);

(c) Records of the provisions of the radiation protection program as required by WAC 246-221-005.

(9) The licensee or registrant shall retain the following records for three years after the record is made:

(a) Records of testing entry control devices for very high radiation areas as required by WAC 246-221-106(3);

(b) Records used in preparing department Form RHF-4 or RHF-4A;

(c) Records showing the results of general surveys required by WAC 246-221-110 and package surveys required by WAC 246-221-160;

(d) Records of calibrations required by WAC 246-221-110;

(e) Records of program audits and other reviews of the content and implementation of the radiation protection program required by WAC 246-221-005;

(f) Records of waste disposal by decay in storage.

(~~(6)~~) (10) If there is a conflict between the department's regulations in this part, license condition, or other written department approval or authorization pertaining to the retention period for the same type of record, the retention period specified in the regulations in this part for such records shall apply unless the department, pursuant to WAC 246-220-050, has granted a specific exemption from the record retention requirements specified in the regulations in this part.

(~~(7)~~) (11) The discontinuance or curtailment of activities does not relieve the licensee or registrant of responsibility for retaining all records required by this section. (~~A licensee or registrant may, however, request the department to accept such records. The acceptance of the records by the department relieves the licensee or registrant of subsequent responsibility only in respect to their preservation as required in this section.~~)

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-240 Reports of (~~theft or loss of~~) stolen, lost or missing radiation sources. (1) Each licensee and/or registrant shall report (~~immediately~~) by telephone (206/682-5327) and confirm promptly by letter telegram, mailgram, or facsimile to the State Department of Health, Division of Radiation Protection, (~~Mailstop LE-13~~) P.O. Box 47827, Olympia, Washington (~~98504, the actual or attempted theft or loss as soon as such theft or loss becomes known to the licensee and/or registrant of:~~

(1) Any radiation producing machine; or

(2) Any quantity of radioactive material in excess of a quantity exempted under WAC 246-221-300, Appendix B, or any item not exempted in chapter 246-232 WAC)) 98504-7827.

(a) Immediately after its occurrence becomes known to the licensee, stolen, lost, or missing radioactive material in an aggregate quantity equal to or greater than one thousand times the quantity specified in WAC 246-221-300; or

(b) Within thirty days after its occurrence becomes known to the licensee, lost, stolen, or missing radioactive

material in an aggregate quantity greater than ten times the quantity specified in Appendix C that is still missing or any item not exempted in chapter 246-232 WAC; or

(c) Immediately after its occurrence becomes known to the registrant, a stolen, lost, or missing radiation machine.

(2) Each licensee or registrant required to make a report pursuant to subsection (1) of this section shall, within thirty days after making the telephone report, make a written report to the department setting forth the following information:

(a) A description of the licensed or registered source of radiation involved, including, for radioactive material, the kind, quantity, and chemical and physical form; and, for radiation machines, the manufacturer, model and serial number, type and maximum energy of radiation emitted; and

(b) A description of the circumstances under which the loss or theft occurred; and

(c) A statement of disposition, or probable disposition, of the licensed or registered source of radiation involved; and

(d) Exposures of individuals to radiation, circumstances under which the exposures occurred, and the possible total effective dose equivalent to persons in unrestricted areas; and

(e) Actions that have been taken, or will be taken, to recover the source of radiation; and

(f) Procedures or measures that have been, or will be, adopted to ensure against a recurrence of the loss or theft of licensed or registered sources of radiation.

(3) Subsequent to filing the written report, the licensee or registrant shall also report additional substantive information on the loss or theft within thirty days after the licensee or registrant learns of such information.

(4) The licensee or registrant shall prepare any report filed with the department pursuant to this section so that names of individuals who may have received exposure to radiation are stated in a separate and detachable portion of the report.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-250 Notification of incidents. (1) **Immediate notification.** Notwithstanding other requirements for notification, each licensee and/or registrant shall immediately notify the State Department of Health, Division of Radiation Protection, ((Mailstop LE-13)) P.O. Box 47827, Olympia, Washington 98504-7827, by telephone (206/682-5327) and confirming letter, telegram, mailgram, or facsimile of any incident involving any radiation source which may have caused or threatens to cause:

~~((a) A dose to the whole body of any individual, or any dosimetry device assigned to any individual, of twenty-five rems or more of radiation; a dose to the skin of the whole body of any individual or any dosimetry device assigned to any individual of one hundred fifty rems or more of radiation; or a dose to the feet, ankles, hands, or forearms of any individual, or any dosimetry device assigned to any individual, of three hundred seventy-five rems or more of radiation; or~~

~~(b) The release of radioactive material in concentrations which, if averaged over a period of twenty-four hours, would exceed five thousand times the limits specified for such~~

~~materials in WAC 246-221-290, Appendix A, Table II.) (a) An individual to receive:~~

~~(i) A total effective dose equivalent of 0.25 Sv (25 rem) or more; or~~

~~(ii) An eye dose equivalent of 0.75 Sv (75 rem) or more; or~~

~~(iii) A shallow dose equivalent to the skin or extremities or a total organ dose equivalent of 2.5 Sv (250 rem) or more; or~~

~~(b) The release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for twenty-four hours, the individual could have received an intake five times the occupational ALI. This provision does not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures.~~

(2) Twenty-four hour notification. Each licensee and/or registrant shall within twenty-four hours of discovery of the event, notify the State Department of Health, Division of Radiation Protection, ((Mailstop LE-13)) P.O. Box 47827, Olympia, Washington 98504-7827, by telephone (206/682-5327) and confirming letter, telegram, mailgram, or facsimile of any incident involving any radiation source possessed which may have caused or threatens to cause:

~~((a) A dose to the whole body of any individual, or any dosimetry device assigned to any individual, of five rems or more of radiation; a dose to the skin of the whole body of any individual or any dosimetry device assigned to any individual of thirty rems or more of radiation; or a dose to the feet, ankles, hands, or forearms or any dosimetry device assigned to any individual, of seventy-five rems or more of radiation; or~~

~~(b) The release of radioactive material in concentrations which, if averaged over a period of twenty-four hours, would exceed five hundred times the limits specified for such materials in WAC 246-221-290, Appendix A, Table II.) (a) An individual to receive, in a period of twenty-four hours:~~

~~(i) A total effective dose equivalent exceeding 0.05 Sv (5 rem); or~~

~~(ii) An eye dose equivalent exceeding 0.15 Sv (15 rem); or~~

~~(iii) A shallow dose equivalent to the skin or extremities or a total organ dose equivalent exceeding 0.5 Sv (50 rem); or~~

~~(b) The release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for twenty-four hours, the individual could have received an intake in excess of one occupational ALI. This provision does not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures.~~

(3) For each occurrence, requiring notification pursuant to this section, a prompt investigation of the situation shall be initiated by the licensee/registrant. A written report of the findings of the investigation shall be sent to the department within thirty days.

(4) The licensee or registrant shall prepare each report filed with the department pursuant to this section so that names of individuals who have received exposure to sources of radiation are stated in a separate and detachable portion of the report.

Any report filed with the department pursuant to this section shall ~~((be prepared in the manner))~~ contain the information described in WAC 246-221-260 (2) and (3).

(5) The provisions of this section do not apply to doses that result from planned special exposures, provided such doses are within the limits for planned special exposures and are reported pursuant to WAC 246-221-265.

(6) Telephone notifications that do not involve immediate or twenty-four hour notification shall not be made to the emergency number (Seattle 206/682-5327). Routine calls should be made to the Olympia office (206/753-3468).

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-260 Reports of overexposures and excessive levels and concentrations. (1) In addition to any notification required by WAC 246-221-250, each licensee or registrant shall ~~((make a report in writing within 30 days to the department of each exposure of an individual to radiation level or concentrations of radioactive material in excess of any applicable limit as set forth in this part or as otherwise approved by the department))~~ submit a written report to the department within thirty days after learning of any of the following occurrences:

(a) Incidents for which notification is required by WAC 246-221-250; or

(b) Doses in excess of any of the following:

(i) The occupational dose limits for adults in WAC 246-221-010; or

(ii) The occupational dose limits for a minor in WAC 246-221-050; or

(iii) The limits for an embryo/fetus of a declared pregnant woman in WAC 246-221-055; or

(iv) The limits for an individual member of the public in WAC 246-221-060; or

(v) Any applicable limit in the license; or

(c) Levels of radiation or concentrations of radioactive material in:

(i) A restricted area in excess of applicable limits in the license; or

(ii) An unrestricted area in excess of ten times the applicable limit set forth in this chapter or in the license or registration, whether or not involving exposure of any individual in excess of the limits in WAC 246-221-060; or

(d) For source materials milling licensees and nuclear power plants subject to the provisions of United States Environmental Protection Agency's generally applicable environmental radiation standards in 40 CFR 190, levels of radiation or releases of radioactive material in excess of those standards, or of license conditions related to those standards.

(2) Each report required by subsection (1) of this section shall describe:

(a) The extent of exposure of individuals to radiation or to radioactive material, including estimates of each individual's dose as required by subsection (3) of this section;

(b) Levels of radiation and concentrations of radioactive material involved;

(c) The cause of exposure, levels or concentrations; and

(d) Corrective steps taken or planned to assure against a recurrence, including the schedule for achieving conformance with applicable limits, generally applicable environmental standards, and associated license conditions.

~~(3) ((Any))~~ Each report filed with the department pursuant to this section shall include for each individual exposed the name, social security number, and date of birth, and an estimate of the individual's dose. With respect to the limit for the embryo/fetus in WAC 246-221-055, the identifiers should be those of the declared pregnant woman. The report shall be prepared so that this information is stated in a separate and detachable part of the report.

(4) Individuals shall be notified of reports in accordance with the requirements of WAC 246-222-040.

~~((5) In addition to any notification required by WAC 246-221-250, each licensee shall make a report in writing within 30 days to the department of levels of radiation or releases of radioactive material in excess of limits specified by 40 CFR Part 190, "Environmental radiation protection standards for nuclear power operations," or in excess of license conditions related to compliance with 40 CFR Part 190. Each report required under this paragraph shall describe the extent of exposure of individuals to radiation or to radioactive material; levels of radiation and concentrations of radioactive material involved; the cause of the exposure; levels of concentrations; and corrective steps taken or planned to assure against a recurrence.))~~

NEW SECTION

WAC 246-221-265 Special reports to the department—Planned special exposures, individual monitoring results from certain licensees, and leaking sources. (1) The licensee or registrant shall submit a written report to the department within thirty days following any planned special exposure conducted in accordance with WAC 246-221-030, informing the department that a planned special exposure was conducted and indicating the date the planned special exposure occurred and the information required by WAC 246-221-030.

(2) Each licensee in a category listed in subsection (3) of this section shall submit an annual report of the results of individual monitoring carried out by the licensee for each individual for whom monitoring was required by WAC 246-221-090 and 246-221-100 during that year. The licensee may include additional data for individuals for whom monitoring was provided but not required. The licensee shall use department Form RHF-5A or electronic media containing all the information required by department Form 5A.

(3) The requirement to submit individual monitoring results annually applies to each person licensed by the department to:

(a) Possess or use sources of radiation for purposes of industrial radiography pursuant to chapters 246-235 and 246-243 WAC; or

(b) Receive radioactive waste from other persons for disposal pursuant to chapter 246-250 WAC; or

(c) Possess or use at any time, for processing or manufacturing for distribution pursuant to chapter 246-235 WAC, radioactive material in quantities exceeding any one of the following quantities:

PERMANENT

| Radionuclide | Ci | Activity | GBq |
|----------------|-------|----------|--------|
| Cesium-137 | 1 | | 37 |
| Cobalt-60 | 1 | | 37 |
| Gold-198 | 100 | | 3,700 |
| Iodine-131 | 1 | | 37 |
| Iridium-192 | 10 | | 370 |
| Krypton-85 | 1,000 | | 37,000 |
| Promethium-147 | 10 | | 370 |
| Technetium-99m | 1,000 | | 37,000 |

(4) The department may require as a license condition, or by rule, regulation, or order pursuant to WAC 246-220-100, reports of annual individual monitoring results from licensees processing or manufacturing for distribution radionuclides not on the list in subsection (3)(c) of this section, provided the radionuclides are in quantities sufficient to cause comparable radiation levels to those on the list.

(5) The licensee shall file the report required by subsection (2) of this section, covering the preceding year, on or before April 30 of each year. The licensee shall submit the report to the department.

(6) The licensee shall file a written report with the department within five days after learning that a sealed source is leaking or contaminated. The report shall describe the source, source holder, equipment in which the source is installed, the test results and the corrective action taken.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-221-270 Vacating premises and release of equipment. (1) Each specific licensee shall, no less than 30 days before vacating or relinquishing possession or control of premises which may have been contaminated with radioactive material as a result of licensed activities, notify the department in writing of intent to vacate. ~~((When deemed necessary by the department, the licensee shall decontaminate the premises in such a manner as the department may specify.))~~

(2) Each licensee, before vacating any premise or transferring the premise, shall permanently decontaminate such premise below or equal to the standards specified in WAC 246-232-140. A survey shall be made after such decontamination and the Department and the landlord or subsequent tenant or transferee shall be provided with a copy of such survey no later than the date of vacating or relinquishing possession or control of the premise.

(3) No machinery, instruments, laboratory equipment or any other property used in contact with, or close proximity to radioactive material at a licensed premise shall be assigned, sold, leased, or transferred to an unlicensed person unless such property has been decontaminated to meet the standards specified in WAC 246-232-140. A survey shall be made after such decontamination and the Department and subsequent owner or transferee shall be provided with a copy of such survey report.

NEW SECTION

WAC 246-221-275 Notification of changes in a facility. Each licensee or registrant shall notify the department of changes in any room or area in a facility where a source of radiation is used. Changes of interest to the department include, but are not limited to, new or replacement equipment containing or emitting radiation, increased occupancy, repair or replacement of existing shielding, new shielding, alteration of the ventilation system, and changes in procedures done in the room or area.

NEW SECTION

WAC 246-221-285 Protection factors for respirators. (1) The licensee may use the following information in the selection of respiratory protective equipment to be used only where the contaminants have been identified and the concentration, or possible concentrations, are known.

| Description ² | Protection Factors ¹ | | Tested & Certified Equipment | |
|---|--|-------------------|--|--|
| | Modes ³ | Particulates only | Particulates, gases, vapors ³ | NIOSH & MSHA ⁴ tests for permissibility |
| I. AIR-PURIFYING RESPIRATORS⁶ | | | | |
| Facepiece, half-mask ⁷ | NP | 10 | | 30 CFR 11, Subpart K. |
| Facepiece, full | NP | 50 | | |
| Facepiece, half-mask, full, or hood | PP | 1000 | | |
| II. ATMOSPHERE-SUPPLYING RESPIRATORS | | | | |
| 1. Air-line respirator | | | | |
| Facepiece, half-mask | CF | | 1000 | |
| Facepiece, half-mask | D | | 5 | |
| Facepiece, full | CF | | 2000 | |
| Facepiece, full | D | | 5 | 30 CFR 11, Subpart J. |
| Facepiece, full | PD | | 2000 | |
| Hood ⁸ | CF | | | |
| Suit ^{9, 10} | CF | | | |
| 2. Self-contained breathing apparatus (SCBA) | | | | |
| Facepiece, full | D | | 50 | |
| Facepiece, full | PD | | 10,000 ¹¹ | 30 CFR 11, Subpart H. |
| Facepiece, full | RD | | 50 | |
| Facepiece, full | RP | | 5,000 ¹² | |
| III. COMBINATION RESPIRATORS | | | | |
| Any combination of air-purifying and atmosphere-supplying respirators | Protection factor for type and mode of operation as listed above | | | 30 CFR 11, Sec.11.63(b) |

FOOTNOTES

- The protection factor is a measure of the degree of protection afforded by a respirator, defined as the ratio of the concentration of airborne radioactive material outside the respiratory protective equipment to that inside the equipment, usually inside the facepiece, under conditions of use. It is applied to the ambient airborne concentration to estimate the concentrations inhaled by the wearer according to the following formula:

$$\text{Concentration inhaled} = \frac{\text{Ambient airborne concentration}}{\text{Protection factor}}$$

The protection factors apply:

- a. Only for individuals trained in using respirators and wearing properly fitted respirators that are used and maintained under supervision in a well-planned respiratory protective program.
 - b. For air-purifying respirators only when high efficiency particulate filters, above 99.97% removal efficiency by thermally generated 0.3 μm dioctyl phthalate (DOP) test or equivalent, are used in atmospheres not deficient in oxygen and not containing radioactive gas or vapor respiratory hazards.
 - c. No adjustment is to be made for the use of sorbents against radioactive material in the form of gases or vapors.
 - d. For atmosphere-supplying respirators only when supplied with adequate respirable air. Respirable air shall be provided of the quality and quantity required in accordance with the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration certification described in 30 CFR 11. Oxygen and air shall not be used in the same apparatus.
2. Only for shaven faces and where nothing interferes with the seal of tight-fitting facepieces against the skin. Hoods and suits are excepted.
 3. The mode symbols are defined as follows:
 CF = continuous flow
 D = demand
 NP = negative pressure, that is, negative phase during inhalation
 PD = pressure demand, that is, always positive pressure
 PP = positive pressure
 RD = demand, recirculating or closed circuit
 RP = pressure demand, recirculating or closed circuit
 4. NIOSH & MSHA are the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration.
 5. Excluding radioactive contaminants that present an absorption or submersion hazard. For tritium oxide, approximately one-third of the intake occurs by absorption through the skin so that an overall protection factor of less than two is appropriate when atmosphere-supplying respirators are used to protect against tritium oxide. If the protection factor for respiratory protective equipment is five, the effective protection factor for tritium is about 1.4; with protection factors of ten, the effective factor for tritium oxide is about 1.7; and with protection factors of one hundred or more, the effective factor for tritium oxide is about 1.9. Air-purifying respirators are not suitable for protection against tritium oxide. See also footnote 9 concerning supplied-air suits.
 6. Canisters and cartridges shall not be used beyond service-life limitations.
 7. Under-chin type only. This type of respirator is not satisfactory for use where it might be possible, if an accident or emergency were to occur, for the ambient airborne concentrations to reach instantaneous values greater than ten times the pertinent values in Table I, Column 3 of WAC 246-221-290. This type of respirator is not suitable for protection against plutonium or other high-toxicity materials. The mask is to be tested for fit prior to use, each time it is donned.
 8. Equipment shall be operated in a manner that ensures that proper air flow-rates are maintained. A protection factor of no more than one thousand may be utilized for tested-and-certified supplied-air hoods when a minimum air flow of six cubic feet per minute (0.17 m³/min) is maintained and calibrated air line pressure gauges or flow measuring devices are used. A protection factor of up to two thousand may be used for tested and certified hoods only when the air flow is maintained at the manufacturer's recommended maximum rate for the equipment, this rate is greater than six cubic feet per minute (0.17 m³/min) and calibrated air line pressure gauges or flow measuring devices are used.

The design of the supplied-air hood or helmet, with a minimum flow of six cubic feet per minute (0.17 m³/min) of air, may determine its overall efficiency and the protection it provides. For example, some hoods aspirate contaminated air into the breathing zone when the wearer works with hands-over-head.

- This aspiration may be overcome if a short cape-like extension to the hood is worn under a coat or overalls. Other limitations specified by the approval agency shall be considered before using a hood in certain types of atmospheres. See footnote 9.
9. Appropriate protection factors shall be determined, taking into account the design of the suit and its permeability to the contaminant under conditions of use. There shall be a standby rescue person equipped with a respirator or other apparatus appropriate for the potential hazards and communications equipment whenever supplied-air suits are used.
 10. No approval schedules are currently available for this equipment. Equipment is to be evaluated by testing or on the basis of reliable test information.
 11. This type of respirator may provide greater protection and be used as an emergency device in unknown concentrations for protection against inhalation hazards. External radiation hazards and other limitations to permitted exposure, such as skin absorption, must be taken into account in such circumstances.
 12. Quantitative fit testing shall be performed on each individual, and no more than 0.02% leakage is allowed with this type of apparatus. Perceptible outward leakage of gas from this or any positive pressure self-contained breathing apparatus is unacceptable because service life will be reduced substantially. Special training in the use of this type of apparatus shall be provided to the wearer.

(2) The licensee may use protection factors for respirators approved by the United States Bureau of Mines and the National Institute for Occupational Safety and Health, according to applicable approvals for respirators for type and mode of use to protect against airborne radionuclides, to the extent that they do not exceed the protection factors listed in the table given in subsection (1) of this section. The protection factors listed in this table may not be appropriate to circumstances where chemical or other respiratory hazards exist in addition to radioactive hazards. The selection and use of respirators for such circumstances should take into account applicable approvals of the United States Bureau of Mines and the National Institute for Occupational Safety and Health.

(3) The licensee should also be aware that the concentration values in Table I, Column 3 of WAC 246-221-290 are based on internal dose due to inhalation, and that radioactive contaminants may present external exposure hazards at higher concentrations. Under these circumstances, limitations on occupancy may have to be governed by external dose limits.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-221-290 Appendix A—((Concentrations in air and water above natural background.)) Annual limits on intake (ALI) and derived air concentrations (DAC) of radionuclides for occupational exposure; effluent concentrations; concentrations for release to sanitary sewerage.

| Element (atomic number) | Isotope ⁺ | Table I Restricted Area | | Table II Unrestricted Area | |
|-------------------------|----------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|
| | | Column 1 Air (μCi/ml) | Column 2 Water (μCi/ml) | Column 1 Air (μCi/ml) | Column 2 Water (μCi/ml) |
| Actinium (89) | Ac 227 | S 2x10 ⁻¹² | 6x10 ⁻⁵ | 8x10 ⁻¹⁴ | 2x10 ⁻⁶ |
| | | I 3x10 ⁻¹¹ | 9x10 ⁻² | 9x10 ⁻¹³ | 3x10 ⁻⁴ |
| | Ac 228 | S 8x10 ⁻⁸ | 3x10 ⁻² | 3x10 ⁻⁹ | 9x10 ⁻⁵ |
| | | I 2x10 ⁻⁶ | 3x10 ⁻² | 6x10 ⁻¹⁰ | 9x10 ⁻⁵ |

PERMANENT

| | | | | | | |
|----------------------|------------------|------------------------|--------------------|-------------------|--------------------|-------------------|
| Americium (95) | Am 241 | S | 6x10 ¹² | 1x10 ⁴ | 2x10 ¹³ | 4x10 ⁶ |
| | | I | 1x10 ¹⁰ | 8x10 ⁴ | 4x10 ¹² | 3x10 ⁵ |
| Am 242m | Am 242 | S | 6x10 ¹² | 1x10 ⁴ | 2x10 ¹³ | 4x10 ⁶ |
| | | I | 3x10 ¹⁰ | 3x10 ³ | 9x10 ¹² | 9x10 ⁵ |
| Am 242 | Am 243 | S | 4x10 ⁸ | 4x10 ³ | 1x10 ⁹ | 1x10 ⁴ |
| | | I | 5x10 ⁸ | 4x10 ³ | 2x10 ⁹ | 1x10 ⁴ |
| Am 243 | Am 244 | S | 6x10 ¹² | 1x10 ⁴ | 2x10 ¹³ | 4x10 ⁶ |
| | | I | 1x10 ¹⁰ | 8x10 ⁴ | 4x10 ¹² | 3x10 ⁵ |
| Am 244 | Antimony (51) | S | 4x10 ⁶ | 1x10 ¹ | 1x10 ⁷ | 5x10 ³ |
| | | I | 2x10 ⁵ | 1x10 ¹ | 8x10 ⁷ | 5x10 ³ |
| Sb 122 | Sb 124 | S | 2x10 ⁷ | 8x10 ⁴ | 6x10 ⁹ | 3x10 ⁵ |
| | | I | 1x10 ⁷ | 8x10 ⁴ | 5x10 ⁹ | 3x10 ⁵ |
| Sb 124 | Sb 125 | S | 2x10 ⁷ | 7x10 ⁴ | 5x10 ⁹ | 2x10 ⁵ |
| | | I | 2x10 ⁸ | 7x10 ⁴ | 7x10 ¹⁰ | 2x10 ⁵ |
| Sb 125 | Argon (18) | S | 5x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | | I | 3x10 ⁸ | 3x10 ³ | 9x10 ¹⁰ | 1x10 ⁴ |
| Ar 37 | Ar 41 | Sub | 6x10 ³ | — | 1x10 ⁴ | — |
| | | Sub | 2x10 ⁶ | — | 4x10 ⁸ | — |
| Arsenic (33) | As 73 | S | 2x10 ⁶ | 1x10 ² | 7x10 ⁸ | 5x10 ⁴ |
| | | I | 4x10 ⁷ | 1x10 ² | 1x10 ⁸ | 5x10 ⁴ |
| As 74 | As 76 | S | 3x10 ⁷ | 2x10 ³ | 1x10 ⁸ | 5x10 ⁵ |
| | | I | 1x10 ⁷ | 2x10 ³ | 4x10 ⁹ | 5x10 ⁵ |
| As 76 | As 77 | S | 1x10 ⁷ | 6x10 ⁴ | 4x10 ⁹ | 2x10 ⁵ |
| | | I | 1x10 ⁷ | 6x10 ⁴ | 3x10 ⁹ | 2x10 ⁵ |
| S 5x10 ⁷ | Astatine (85) | S | 7x10 ⁹ | 5x10 ⁵ | 2x10 ¹⁰ | 2x10 ⁶ |
| | | I | 3x10 ⁸ | 2x10 ³ | 1x10 ⁹ | 7x10 ⁵ |
| Ba 131 | Ba 140 | S | 1x10 ⁶ | 5x10 ³ | 4x10 ⁸ | 2x10 ⁴ |
| | | I | 4x10 ⁷ | 5x10 ³ | 1x10 ⁸ | 2x10 ⁴ |
| Ba 140 | Berkelium (97) | S | 1x10 ⁷ | 8x10 ⁴ | 4x10 ⁹ | 3x10 ⁵ |
| | | I | 4x10 ⁸ | 7x10 ⁴ | 1x10 ⁹ | 2x10 ⁵ |
| Bk 249 | Bk 250 | S | 9x10 ¹⁰ | 2x10 ² | 3x10 ¹¹ | 6x10 ⁴ |
| | | I | 1x10 ⁷ | 2x10 ² | 4x10 ⁹ | 6x10 ⁴ |
| Bk 250 | Beryllium (4) | S | 1x10 ⁷ | 6x10 ³ | 5x10 ⁹ | 2x10 ⁴ |
| | | I | 1x10 ⁶ | 6x10 ³ | 4x10 ⁸ | 2x10 ⁴ |
| Be 7 | Bismuth (83) | S | 6x10 ⁶ | 5x10 ² | 2x10 ⁷ | 2x10 ³ |
| | | I | 1x10 ⁶ | 5x10 ² | 4x10 ⁸ | 2x10 ³ |
| Bi 206 | Bi 207 | S | 2x10 ⁷ | 1x10 ³ | 6x10 ⁹ | 4x10 ⁵ |
| | | I | 1x10 ⁷ | 1x10 ³ | 5x10 ⁹ | 4x10 ⁵ |
| Bi 207 | Bi 210 | S | 2x10 ⁷ | 2x10 ³ | 6x10 ⁹ | 6x10 ⁵ |
| | | I | 1x10 ⁸ | 2x10 ³ | 5x10 ¹⁰ | 6x10 ⁵ |
| Bi 210 | Bi 212 | S | 6x10 ⁹ | 1x10 ³ | 2x10 ¹⁰ | 4x10 ⁵ |
| | | I | 6x10 ⁹ | 1x10 ³ | 2x10 ¹⁰ | 4x10 ⁵ |
| Bi 212 | Bromine (35) | S | 1x10 ⁷ | 1x10 ² | 3x10 ⁹ | 4x10 ⁴ |
| | | I | 2x10 ⁷ | 1x10 ² | 7x10 ⁹ | 4x10 ⁴ |
| Br 82 | Cadmium (48) | S | 1x10 ⁶ | 8x10 ³ | 4x10 ⁸ | 3x10 ⁴ |
| | | I | 2x10 ⁷ | 1x10 ³ | 6x10 ⁹ | 4x10 ⁵ |
| Cd 109 | Cd 115m | S | 5x10 ⁸ | 5x10 ² | 2x10 ⁹ | 2x10 ⁴ |
| | | I | 7x10 ⁸ | 5x10 ² | 3x10 ⁹ | 2x10 ⁴ |
| Cd 115m | Cd 115 | S | 4x10 ⁸ | 7x10 ⁴ | 1x10 ⁹ | 3x10 ⁵ |
| | | I | 4x10 ⁸ | 7x10 ⁴ | 1x10 ⁹ | 3x10 ⁵ |
| S 2x10 ⁷ | Calcium (20) | S | 3x10 ⁸ | 3x10 ⁴ | 1x10 ⁹ | 9x10 ⁶ |
| | | I | 1x10 ⁷ | 5x10 ³ | 4x10 ⁹ | 2x10 ⁴ |
| Ca 47 | Californium (98) | S | 2x10 ⁷ | 1x10 ³ | 6x10 ⁹ | 5x10 ⁵ |
| | | I | 2x10 ⁷ | 1x10 ³ | 6x10 ⁹ | 3x10 ⁵ |
| Cf 249 | Cf 250 | S | 2x10 ¹² | 1x10 ⁴ | 5x10 ¹⁴ | 4x10 ⁶ |
| | | I | 1x10 ¹⁰ | 7x10 ⁴ | 3x10 ¹² | 2x10 ⁵ |
| Cf 250 | Cf 251 | S | 5x10 ¹² | 4x10 ⁴ | 2x10 ¹³ | 1x10 ⁵ |
| | | I | 1x10 ¹⁰ | 7x10 ⁴ | 3x10 ¹² | 3x10 ⁵ |
| Cf 251 | Cf 252 | S | 2x10 ¹² | 1x10 ⁴ | 6x10 ¹⁴ | 4x10 ⁶ |
| | | I | 1x10 ¹⁰ | 8x10 ⁴ | 3x10 ¹² | 3x10 ⁵ |
| Cf 252 | Cf 253 | S | 6x10 ¹² | 2x10 ⁴ | 2x10 ¹³ | 7x10 ⁶ |
| | | I | 3x10 ¹¹ | 2x10 ⁴ | 1x10 ¹² | 7x10 ⁶ |
| Cf 253 | Cf 254 | S | 8x10 ¹⁰ | 4x10 ³ | 3x10 ¹¹ | 1x10 ⁴ |
| | | I | 8x10 ¹⁰ | 4x10 ³ | 3x10 ¹¹ | 1x10 ⁴ |
| S 5x10 ¹² | Carbon (6) | S | 4x10 ⁶ | 2x10 ² | 1x10 ⁷ | 8x10 ⁴ |
| | | (CO ₂) Sub | 5x10 ⁵ | — | 4x10 ⁶ | — |
| Ce 141 | Ce 143 | S | 4x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 9x10 ⁵ |
| | | I | 2x10 ⁷ | 3x10 ³ | 5x10 ⁹ | 9x10 ⁵ |
| S 3x10 ⁷ | Cerium (58) | S | 3x10 ⁷ | 1x10 ³ | 9x10 ⁹ | 4x10 ⁵ |
| | | I | 2x10 ⁷ | 1x10 ³ | 7x10 ⁹ | 4x10 ⁵ |

| | | | | | | |
|----------------------|------------------|---|--------------------|-------------------|--------------------|-------------------|
| Ce 144 | Cesium (55) | S | 1x10 ⁸ | 3x10 ⁴ | 3x10 ¹⁰ | 1x10 ⁵ |
| | | I | 6x10 ⁹ | 3x10 ⁴ | 2x10 ¹⁰ | 1x10 ⁵ |
| Cs 131 | Cs 134m | S | 1x10 ⁵ | 7x10 ² | 4x10 ⁷ | 2x10 ³ |
| | | I | 3x10 ⁶ | 3x10 ² | 1x10 ⁷ | 9x10 ⁴ |
| Cs 134 | Cs 135 | S | 4x10 ⁶ | 2x10 ¹ | 1x10 ⁶ | 6x10 ³ |
| | | I | 6x10 ⁶ | 3x10 ² | 2x10 ⁷ | 1x10 ³ |
| Cs 134 | Cs 136 | S | 4x10 ⁸ | 3x10 ⁴ | 1x10 ⁹ | 9x10 ⁶ |
| | | I | 1x10 ⁸ | 1x10 ³ | 4x10 ¹⁰ | 4x10 ⁴ |
| Cs 135 | Cs 137 | S | 5x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | | I | 9x10 ⁸ | 7x10 ³ | 3x10 ⁹ | 2x10 ⁴ |
| Cs 136 | Cs 137 | S | 4x10 ⁷ | 2x10 ³ | 1x10 ⁸ | 9x10 ⁵ |
| | | I | 2x10 ⁷ | 2x10 ³ | 6x10 ⁹ | 6x10 ⁵ |
| S 6x10 ⁸ | Chlorine (17) | S | 6x10 ⁸ | 4x10 ⁴ | 2x10 ⁹ | 2x10 ⁵ |
| | | I | 1x10 ⁸ | 1x10 ² | 5x10 ¹⁰ | 4x10 ⁵ |
| Cl 36 | Cl 38 | S | 4x10 ⁷ | 2x10 ² | 1x10 ⁸ | 8x10 ⁵ |
| | | I | 2x10 ⁸ | 2x10 ² | 8x10 ¹⁰ | 6x10 ⁵ |
| S 3x10 ⁶ | Chromium (24) | S | 3x10 ⁶ | 1x10 ² | 9x10 ⁸ | 4x10 ⁴ |
| | | I | 2x10 ⁶ | 1x10 ² | 7x10 ⁸ | 4x10 ⁴ |
| Cr 51 | Cobalt (27) | S | 1x10 ⁵ | 5x10 ² | 4x10 ⁷ | 2x10 ³ |
| | | I | 2x10 ⁶ | 4x10 ² | 8x10 ⁸ | 2x10 ³ |
| Co 57 | Co 58m | S | 3x10 ⁶ | 2x10 ² | 1x10 ⁷ | 5x10 ⁴ |
| | | I | 2x10 ⁷ | 1x10 ² | 6x10 ⁹ | 4x10 ⁴ |
| Co 58m | Co 58 | S | 2x10 ⁵ | 8x10 ² | 6x10 ⁷ | 3x10 ³ |
| | | I | 9x10 ⁶ | 6x10 ² | 3x10 ⁷ | 2x10 ³ |
| Co 58 | Co 60 | S | 8x10 ⁷ | 4x10 ³ | 3x10 ⁸ | 1x10 ⁴ |
| | | I | 5x10 ⁸ | 3x10 ³ | 2x10 ⁹ | 9x10 ⁵ |
| S 3x10 ⁷ | Copper (29) | S | 3x10 ⁷ | 1x10 ³ | 1x10 ⁸ | 5x10 ⁵ |
| | | I | 9x10 ⁹ | 1x10 ³ | 3x10 ¹⁰ | 3x10 ⁵ |
| Cu 64 | Curium (96) | S | 2x10 ⁶ | 1x10 ² | 7x10 ⁸ | 3x10 ⁴ |
| | | I | 1x10 ⁶ | 6x10 ² | 4x10 ⁸ | 2x10 ⁴ |
| Cm 242 | Cm 243 | S | 1x10 ¹⁰ | 7x10 ⁴ | 4x10 ¹² | 2x10 ⁵ |
| | | I | 2x10 ¹⁰ | 7x10 ⁴ | 6x10 ¹² | 2x10 ⁵ |
| Cm 243 | Cm 244 | S | 6x10 ¹² | 1x10 ⁴ | 2x10 ¹³ | 5x10 ⁶ |
| | | I | 1x10 ¹⁰ | 7x10 ⁴ | 2x10 ¹² | 2x10 ⁵ |
| Cm 244 | Cm 245 | S | 9x10 ¹² | 2x10 ⁴ | 3x10 ¹³ | 7x10 ⁶ |
| | | I | 1x10 ¹⁰ | 8x10 ⁴ | 3x10 ¹² | 3x10 ⁵ |
| Cm 245 | Cm 246 | S | 5x10 ¹² | 1x10 ⁴ | 2x10 ¹³ | 4x10 ⁶ |
| | | I | 1x10 ¹⁰ | 8x10 ⁴ | 4x10 ¹² | 3x10 ⁵ |
| Cm 246 | Cm 247 | S | 5x10 ¹² | 1x10 ⁴ | 2x10 ¹³ | 4x10 ⁶ |
| | | I | 1x10 ¹⁰ | 8x10 ⁴ | 4x10 ¹² | 3x10 ⁵ |
| Cm 247 | Cm 248 | S | 5x10 ¹² | 1x10 ⁴ | 2x10 ¹³ | 4x10 ⁶ |
| | | I | 1x10 ¹⁰ | 6x10 ⁴ | 4x10 ¹² | 2x10 ⁵ |
| Cm 248 | Cm 249 | S | 6x10 ¹³ | 1x10 ⁵ | 2x10 ¹⁴ | 4x10 ⁷ |
| | | I | 1x10 ¹¹ | 4x10 ⁵ | 4x10 ¹³ | 1x10 ⁶ |
| S 1x10 ⁵ | Dysprosium (66) | S | 1x10 ⁵ | 6x10 ² | 4x10 ⁷ | 2x10 ³ |
| | | I | 1x10 ⁵ | 6x10 ² | 4x10 ⁷ | 2x10 ³ |
| Dy 165 | Dy 166 | S | 3x10 ⁶ | 1x10 ² | 9x10 ⁸ | 4x10 ⁴ |
| | | I | 2x10 ⁶ | 1x10 ² | 7x10 ⁸ | 4x10 ⁴ |
| S 2x10 ⁷ | Einsteinium (99) | S | 2x10 ⁷ | 1x10 ³ | 8x10 ⁹ | 4x10 ⁵ |
| | | I | 2x10 ⁷ | 1x10 ³ | 7x10 ⁹ | 4x10 ⁵ |
| Es 253 | Es 254m | S | 8x10 ¹⁰ | 7x10 ⁴ | 3x10 ¹¹ | 2x10 ⁵ |
| | | I | 6x10 ¹⁰ | 7x10 ⁴ | 2x10 ¹¹ | 2x10 ⁵ |
| Es 254m | Es 254 | S | 5x10 ⁹ | 5x10 ⁴ | 2x10 ¹⁰ | 2x10 ⁵ |
| | | I | 6x10 ⁹ | 5x10 ⁴ | 2x10 ¹⁰ | 2x10 ⁵ |
| Es 254 | Es 255 | S | 2x10 ¹¹ | 4x10 ⁴ | 6x10 ¹³ | 1x10 ⁵ |
| | | I | 1x10 ¹⁰ | 4x10 ⁴ | 4x10 ¹² | 1x10 ⁵ |
| S 5x10 ¹⁰ | Erbium (68) | S | 5x10 ¹⁰ | 8x10 ⁴ | 2x10 ¹¹ | 3x10 ⁵ |
| | | I | 4x10 ¹⁰ | 8x10 ⁴ | 1x10 ¹¹ | 3x10 ⁵ |
| Er 169 | Er 171 | S | 6x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 9x10 ⁵ |
| | | I | 4x10 ⁷ | 3x10 ³ | 1x10 ⁸ | 9x10 ⁵ |
| S 7x10 ⁷ | Europium (63) | S | 7x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | | I | 6x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 |

| | | | | | | |
|-----------------|---------|------------------|---------------------|--------------------|---------------------|--------------------|
| Fluorine (9) | F-18 | S | 5x10 ⁻⁶ | 2x10 ⁻² | 2x10 ⁻⁷ | 8x10 ⁻⁴ |
| | | I | 3x10 ⁻⁶ | 1x10 ⁻² | 9x10 ⁻⁸ | 5x10 ⁻⁴ |
| Gadolinium (64) | Gd-153 | S | 2x10 ⁻⁷ | 6x10 ⁻³ | 8x10 ⁻⁹ | 2x10 ⁻⁴ |
| | | I | 9x10 ⁻⁸ | 4x10 ⁻³ | 3x10 ⁻⁹ | 2x10 ⁻⁴ |
| | Gd-159 | S | 5x10 ⁻⁷ | 2x10 ⁻³ | 2x10 ⁻⁸ | 8x10 ⁻⁵ |
| | | I | 4x10 ⁻⁷ | 2x10 ⁻³ | 1x10 ⁻⁸ | 8x10 ⁻⁵ |
| Gallium (31) | Ga-72 | S | 2x10 ⁻⁷ | 1x10 ⁻³ | 8x10 ⁻⁹ | 4x10 ⁻⁵ |
| | | I | 2x10 ⁻⁷ | 1x10 ⁻³ | 6x10 ⁻⁹ | 4x10 ⁻⁵ |
| Germanium (32) | Ge-71 | S | 1x10 ⁻⁵ | 5x10 ⁻² | 4x10 ⁻⁷ | 2x10 ⁻³ |
| | | I | 6x10 ⁻⁶ | 5x10 ⁻² | 2x10 ⁻⁷ | 2x10 ⁻³ |
| Gold (79) | Au-196 | S | 1x10 ⁻⁶ | 5x10 ⁻³ | 4x10 ⁻⁸ | 2x10 ⁻⁴ |
| | | I | 6x10 ⁻⁷ | 4x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| | Au-198 | S | 3x10 ⁻⁷ | 2x10 ⁻³ | 1x10 ⁻⁸ | 5x10 ⁻⁵ |
| | | I | 2x10 ⁻⁷ | 1x10 ⁻³ | 8x10 ⁻⁹ | 5x10 ⁻⁵ |
| | Au-199 | S | 1x10 ⁻⁶ | 5x10 ⁻³ | 4x10 ⁻⁸ | 2x10 ⁻⁴ |
| | | I | 8x10 ⁻⁷ | 4x10 ⁻³ | 3x10 ⁻⁸ | 2x10 ⁻⁴ |
| Hafnium (72) | Hf-181 | S | 4x10 ⁻⁸ | 2x10 ⁻³ | 1x10 ⁻⁹ | 7x10 ⁻⁵ |
| | | I | 7x10 ⁻⁸ | 2x10 ⁻³ | 3x10 ⁻⁹ | 7x10 ⁻⁵ |
| Holmium (67) | Ho-166 | S | 2x10 ⁻⁷ | 9x10 ⁻⁴ | 7x10 ⁻⁹ | 3x10 ⁻⁵ |
| | | I | 2x10 ⁻⁷ | 9x10 ⁻⁴ | 6x10 ⁻⁹ | 3x10 ⁻⁵ |
| Hydrogen (1) | H-3 | S | 5x10 ⁻⁶ | 1x10 ⁻¹ | 2x10 ⁻⁷ | 3x10 ⁻³ |
| | | I | 5x10 ⁻⁶ | 1x10 ⁻¹ | 2x10 ⁻⁷ | 3x10 ⁻³ |
| | | Sub ² | 2x10 ⁻³ | — | 4x10 ⁻⁵ | — |
| Indium (49) | In-113m | S | 8x10 ⁻⁶ | 4x10 ⁻² | 3x10 ⁻⁷ | 1x10 ⁻³ |
| | | I | 7x10 ⁻⁶ | 4x10 ⁻² | 2x10 ⁻⁷ | 1x10 ⁻³ |
| | In-114m | S | 1x10 ⁻⁷ | 5x10 ⁻⁴ | 4x10 ⁻⁹ | 2x10 ⁻⁵ |
| | | I | 2x10 ⁻⁸ | 5x10 ⁻⁴ | 7x10 ⁻¹⁰ | 2x10 ⁻⁵ |
| | In-115m | S | 2x10 ⁻⁶ | 1x10 ⁻² | 8x10 ⁻⁸ | 4x10 ⁻⁴ |
| | | I | 2x10 ⁻⁶ | 1x10 ⁻² | 6x10 ⁻⁸ | 4x10 ⁻⁴ |
| | In-115 | S | 2x10 ⁻⁷ | 3x10 ⁻³ | 9x10 ⁻⁹ | 9x10 ⁻⁵ |
| | | I | 3x10 ⁻⁸ | 3x10 ⁻³ | 1x10 ⁻⁹ | 9x10 ⁻⁵ |
| Iodine (53) | I-125 | S | 5x10 ⁻⁹ | 4x10 ⁻⁵ | 8x10 ⁻¹¹ | 2x10 ⁻⁷ |
| | | I | 2x10 ⁻⁹ | 6x10 ⁻⁵ | 6x10 ⁻¹¹ | 2x10 ⁻⁷ |
| | I-126 | S | 8x10 ⁻⁹ | 5x10 ⁻⁵ | 9x10 ⁻¹¹ | 3x10 ⁻⁷ |
| | | I | 3x10 ⁻⁹ | 3x10 ⁻⁵ | 1x10 ⁻¹¹ | 9x10 ⁻⁸ |
| | I-129 | S | 2x10 ⁻⁹ | 1x10 ⁻⁵ | 2x10 ⁻¹¹ | 6x10 ⁻⁸ |
| | | I | 7x10 ⁻⁹ | 6x10 ⁻⁵ | 2x10 ⁻¹¹ | 2x10 ⁻⁷ |
| | I-131 | S | 9x10 ⁻⁹ | 6x10 ⁻⁵ | 1x10 ⁻¹⁰ | 3x10 ⁻⁷ |
| | | I | 3x10 ⁻⁹ | 2x10 ⁻⁵ | 1x10 ⁻¹⁰ | 6x10 ⁻⁸ |
| | I-132 | S | 2x10 ⁻⁷ | 2x10 ⁻³ | 3x10 ⁻⁹ | 8x10 ⁻⁶ |
| | | I | 9x10 ⁻⁷ | 5x10 ⁻³ | 3x10 ⁻⁹ | 2x10 ⁻⁶ |
| | I-133 | S | 3x10 ⁻⁷ | 2x10 ⁻³ | 4x10 ⁻¹⁰ | 1x10 ⁻⁶ |
| | | I | 2x10 ⁻⁷ | 1x10 ⁻³ | 7x10 ⁻¹⁰ | 4x10 ⁻⁶ |
| | I-134 | S | 5x10 ⁻⁷ | 4x10 ⁻³ | 6x10 ⁻⁹ | 2x10 ⁻⁵ |
| | | I | 3x10 ⁻⁷ | 2x10 ⁻³ | 1x10 ⁻⁹ | 6x10 ⁻⁶ |
| | I-135 | S | 1x10 ⁻⁷ | 7x10 ⁻⁴ | 1x10 ⁻⁹ | 4x10 ⁻⁶ |
| | | I | 4x10 ⁻⁷ | 2x10 ⁻³ | 1x10 ⁻⁹ | 7x10 ⁻⁶ |
| Iridium (77) | Ir-190 | S | 1x10 ⁻⁶ | 6x10 ⁻³ | 4x10 ⁻⁸ | 2x10 ⁻⁴ |
| | | I | 4x10 ⁻⁷ | 5x10 ⁻³ | 1x10 ⁻⁸ | 2x10 ⁻⁴ |
| | Ir-192 | S | 1x10 ⁻⁷ | 1x10 ⁻³ | 4x10 ⁻⁹ | 4x10 ⁻⁵ |
| | | I | 3x10 ⁻⁸ | 1x10 ⁻³ | 9x10 ⁻¹⁰ | 4x10 ⁻⁵ |
| | Ir-194 | S | 2x10 ⁻⁷ | 1x10 ⁻³ | 8x10 ⁻⁹ | 3x10 ⁻⁵ |
| | | I | 2x10 ⁻⁷ | 9x10 ⁻⁴ | 5x10 ⁻⁹ | 3x10 ⁻⁵ |
| Iron (26) | Fe-55 | S | 9x10 ⁻⁷ | 2x10 ⁻² | 3x10 ⁻⁸ | 8x10 ⁻⁴ |
| | | I | 1x10 ⁻⁶ | 7x10 ⁻² | 3x10 ⁻⁸ | 2x10 ⁻³ |
| | Fe-59 | S | 1x10 ⁻⁷ | 2x10 ⁻³ | 5x10 ⁻⁹ | 6x10 ⁻⁵ |
| | | I | 5x10 ⁻⁸ | 2x10 ⁻³ | 2x10 ⁻⁹ | 5x10 ⁻⁵ |
| Krypton (36) | Kr-85m | Sub ² | 6x10 ⁻⁶ | — | 1x10 ⁻⁷ | — |
| | Kr-85 | Sub | 1x10 ⁻⁵ | — | 3x10 ⁻⁷ | — |
| | Kr-87 | Sub | 1x10 ⁻⁶ | — | 2x10 ⁻⁸ | — |
| | Kr-88 | Sub | 1x10 ⁻⁶ | — | 2x10 ⁻⁸ | — |
| Lanthanum (57) | La-140 | S | 2x10 ⁻⁷ | 7x10 ⁻⁴ | 5x10 ⁻⁹ | 2x10 ⁻⁵ |
| | | I | 1x10 ⁻⁷ | 7x10 ⁻⁴ | 4x10 ⁻⁹ | 2x10 ⁻⁵ |
| Lead (82) | Pb-203 | S | 3x10 ⁻⁶ | 1x10 ⁻² | 9x10 ⁻⁸ | 4x10 ⁻⁴ |
| | | I | 2x10 ⁻⁶ | 1x10 ⁻² | 6x10 ⁻⁸ | 4x10 ⁻⁴ |
| | Pb-210 | S | 1x10 ⁻¹⁰ | 4x10 ⁻⁶ | 4x10 ⁻¹² | 1x10 ⁻⁷ |
| | | I | 2x10 ⁻¹⁰ | 5x10 ⁻⁶ | 8x10 ⁻¹² | 2x10 ⁻⁷ |
| | Pb-212 | S | 2x10 ⁻⁸ | 6x10 ⁻⁴ | 6x10 ⁻¹⁰ | 2x10 ⁻⁵ |
| | | I | 2x10 ⁻⁸ | 5x10 ⁻⁴ | 7x10 ⁻¹⁰ | 2x10 ⁻⁵ |
| Lutetium (71) | Lu-177 | S | 6x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| | | I | 5x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| Manganese (25) | Mn-52 | S | 2x10 ⁻⁷ | 1x10 ⁻³ | 7x10 ⁻⁹ | 3x10 ⁻⁵ |
| | | I | 1x10 ⁻⁷ | 9x10 ⁻⁴ | 5x10 ⁻⁹ | 3x10 ⁻⁵ |
| | Mn-54 | S | 4x10 ⁻⁷ | 4x10 ⁻³ | 1x10 ⁻⁸ | 1x10 ⁻⁴ |
| | | I | 4x10 ⁻⁸ | 3x10 ⁻³ | 1x10 ⁻⁹ | 1x10 ⁻⁴ |

| | | | | | | |
|-----------------|---------|--------------------|---------------------|--------------------|---------------------|--------------------|
| Mn-56 | S | 8x10 ⁻⁷ | 4x10 ⁻³ | 3x10 ⁻⁸ | 1x10 ⁻⁴ | |
| | I | 5x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ | |
| Mercury (80) | Hg-197m | S | 7x10 ⁻⁷ | 6x10 ⁻³ | 3x10 ⁻⁸ | 2x10 ⁻⁴ |
| | | I | 8x10 ⁻⁷ | 5x10 ⁻³ | 3x10 ⁻⁸ | 2x10 ⁻⁴ |
| | Hg-197 | S | 1x10 ⁻⁶ | 9x10 ⁻³ | 4x10 ⁻⁸ | 3x10 ⁻⁴ |
| | | I | 3x10 ⁻⁶ | 1x10 ⁻² | 9x10 ⁻⁸ | 5x10 ⁻⁴ |
| | Hg-203 | S | 7x10 ⁻⁸ | 5x10 ⁻⁴ | 2x10 ⁻⁹ | 2x10 ⁻⁵ |
| | | I | 1x10 ⁻⁷ | 3x10 ⁻⁴ | 4x10 ⁻⁹ | 1x10 ⁻⁵ |
| Molybdenum (42) | Mo-99 | S | 7x10 ⁻⁷ | 5x10 ⁻³ | 3x10 ⁻⁸ | 2x10 ⁻⁴ |
| | | I | 2x10 ⁻⁷ | 1x10 ⁻³ | 7x10 ⁻⁹ | 4x10 ⁻⁵ |
| Neodymium (60) | Nd-144 | S | 8x10 ⁻¹¹ | 2x10 ⁻³ | 3x10 ⁻¹² | 7x10 ⁻⁵ |
| | | I | 3x10 ⁻¹⁰ | 2x10 ⁻³ | 1x10 ⁻¹¹ | 8x10 ⁻⁵ |
| | Nd-147 | S | 4x10 ⁻⁷ | 2x10 ⁻³ | 1x10 ⁻⁸ | 6x10 ⁻⁵ |
| | | I | 2x10 ⁻⁷ | 2x10 ⁻³ | 8x10 ⁻⁹ | 6x10 ⁻⁵ |
| | Nd-149 | S | 2x10 ⁻⁶ | 8x10 ⁻³ | 6x10 ⁻⁸ | 3x10 ⁻⁴ |
| | | I | 1x10 ⁻⁶ | 8x10 ⁻³ | 5x10 ⁻⁸ | 3x10 ⁻⁴ |
| Neptunium (93) | Np-237 | S | 4x10 ⁻¹² | 9x10 ⁻⁵ | 1x10 ⁻¹³ | 3x10 ⁻⁶ |
| | | I | 1x10 ⁻¹⁰ | 9x10 ⁻⁵ | 4x10 ⁻¹² | 3x10 ⁻⁵ |
| | Np-239 | S | 8x10 ⁻⁷ | 4x10 ⁻³ | 3x10 ⁻⁸ | 1x10 ⁻⁴ |
| | | I | 7x10 ⁻⁷ | 4x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| Nickel (28) | Ni-59 | S | 5x10 ⁻⁷ | 6x10 ⁻³ | 2x10 ⁻⁸ | 2x10 ⁻⁴ |
| | | I | 8x10 ⁻⁸ | 6x10 ⁻³ | 3x10 ⁻⁸ | 2x10 ⁻⁴ |
| | Ni-63 | S | 6x10 ⁻⁸ | 8x10 ⁻⁴ | 2x10 ⁻⁹ | 3x10 ⁻⁵ |
| | | I | 3x10 ⁻⁸ | 2x10 ⁻⁴ | 1x10 ⁻⁹ | 7x10 ⁻⁵ |
| | Ni-65 | S | 9x10 ⁻⁷ | 4x10 ⁻³ | 3x10 ⁻⁸ | 1x10 ⁻⁴ |
| | | I | 5x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| Niobium (41) | Nb-93m | S | 1x10 ⁻⁷ | 1x10 ⁻² | 4x10 ⁻⁹ | 4x10 ⁻⁴ |
| | | I | 2x10 ⁻⁷ | 1x10 ⁻² | 5x10 ⁻⁹ | 4x10 ⁻⁴ |
| | Nb-95 | S | 5x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| | | I | 1x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| | Nb-97 | S | 6x10 ⁻⁶ | 3x10 ⁻² | 2x10 ⁻⁷ | 9x10 ⁻⁴ |
| | | I | 5x10 ⁻⁶ | 3x10 ⁻² | 2x10 ⁻⁷ | 9x10 ⁻⁴ |
| Osmium (76) | Os-185 | S | 5x10 ⁻⁷ | 2x10 ⁻³ | 2x10 ⁻⁸ | 7x10 ⁻⁵ |
| | | I | 5x10 ⁻⁸ | 2x10 ⁻³ | 2x10 ⁻⁸ | 7x10 ⁻⁵ |
| | Os-191m | S | 2x10 ⁻⁵ | 7x10 ⁻² | 6x10 ⁻⁷ | 3x10 ⁻³ |
| | | I | 9x10 ⁻⁶ | 7x10 ⁻² | 3x10 ⁻⁷ | 2x10 ⁻³ |
| | Os-191 | S | 1x10 ⁻⁵ | 5x10 ⁻² | 4x10 ⁻⁷ | 2x10 ⁻³ |
| | | I | 4x10 ⁻⁷ | 5x10 ⁻² | 1x10 ⁻⁸ | 2x10 ⁻⁴ |
| | Os-193 | S | 4x10 ⁻⁷ | 2x10 ⁻³ | 1x10 ⁻⁸ | 6x10 ⁻⁵ |
| | | I | 3x10 ⁻⁷ | 2x10 ⁻³ | 9x10 ⁻⁹ | 5x10 ⁻⁵ |
| Palladium (46) | Pd-103 | S | 1x10 ⁻⁶ | 1x10 ⁻² | 5x10 ⁻⁸ | 3x10 ⁻⁴ |
| | | I | 7x10 ⁻⁷ | 8x10 ⁻³ | 3x10 ⁻⁸ | 3x10 ⁻⁴ |
| | Pd-109 | S | 6x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 9x10 ⁻⁵ |
| | | I | 4x10 ⁻⁷ | 2x10 ⁻³ | 1x10 ⁻⁸ | 7x10 ⁻⁵ |
| Phosphorus (15) | P-32 | S | 7x10 ⁻⁸ | 5x10 ⁻⁴ | 2x10 ⁻⁹ | 2x10 ⁻⁵ |
| | | I | 8x10 ⁻⁸ | 7x10 ⁻⁴ | 3x10 ⁻⁹ | 2x10 ⁻⁵ |
| Platinum (78) | Pt-191 | S | 8x10 ⁻⁷ | 4x10 ⁻³ | 3x10 ⁻⁸ | 1x10 ⁻⁴ |
| | | I | 6x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| | Pt-193m | S | 7x10 ⁻⁶ | 3x10 ⁻² | 2x10 ⁻⁷ | 1x10 ⁻³ |
| | | I | 5x10 ⁻⁶ | 3x10 ⁻² | 2x10 ⁻⁷ | 1x10 ⁻³ |
| | Pt-193 | S | 1x10 ⁻⁶ | 3x10 ⁻² | 4x10 ⁻⁸ | 9x10 ⁻⁴ |
| | | I | 3x10 ⁻⁷ | 5x10 ⁻² | 1x10 ⁻⁸ | 2x10 ⁻³ |
| | Pt-197m | S | 6x10 ⁻⁶ | 3x10 ⁻² | 2x10 ⁻⁷ | 1x10 ⁻³ |
| | | I | 5x10 ⁻⁶ | 3x10 ⁻² | 2x10 ⁻⁷ | 9x10 ⁻⁴ |
| | Pt-197 | S | 8x10 ⁻⁷ | 4x10 ⁻³ | 3x10 ⁻⁸ | 1x10 ⁻⁴ |
| | | I | 6x10 ⁻⁷ | 3x10 ⁻³ | 2x10 ⁻⁸ | 1x10 ⁻⁴ |
| Plutonium (94) | Pu-238 | S | 2x10 ⁻¹² | 1x10 ⁻⁴ | 7x10 ⁻¹⁴ | 5x10 ⁻⁶ |
| | | I | 3x10 ⁻¹¹ | 8x10 ⁻⁴ | 1x10 ⁻¹² | 3x10 ⁻⁵ |
| | Pu-239 | S | 2x10 ⁻¹² | 1x10 ⁻⁴ | 6x10 ⁻¹⁴ | 5x10 ⁻⁶ |
| | | I | 4x10 ⁻¹¹ | 8x10< | | |

PERMANENT

| | | | | | |
|--------------------------|---|--------------------|-------------------|--------------------|-------------------|
| Pr 143 | S | 3x10 ⁷ | 1x10 ³ | 1x10 ⁸ | 5x10 ⁵ |
| | I | 2x10 ⁷ | 1x10 ³ | 6x10 ⁹ | 5x10 ⁵ |
| Promethium (61) Pm 147 | S | 6x10 ⁸ | 6x10 ³ | 2x10 ⁹ | 2x10 ⁴ |
| | I | 1x10 ⁷ | 6x10 ³ | 3x10 ⁹ | 2x10 ⁴ |
| Pm 149 | S | 3x10 ⁷ | 1x10 ³ | 1x10 ⁸ | 4x10 ⁵ |
| | I | 2x10 ⁷ | 1x10 ³ | 8x10 ⁹ | 4x10 ⁵ |
| Protactinium (91) Pa 230 | S | 2x10 ⁹ | 7x10 ³ | 6x10 ¹¹ | 2x10 ⁴ |
| | I | 8x10 ¹⁰ | 7x10 ³ | 3x10 ¹¹ | 2x10 ⁴ |
| Pa 231 | S | 1x10 ¹² | 3x10 ³ | 4x10 ¹⁴ | 9x10 ⁷ |
| | I | 1x10 ¹⁰ | 8x10 ⁴ | 4x10 ¹² | 2x10 ⁵ |
| Pa 233 | S | 6x10 ⁷ | 4x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | I | 2x10 ⁷ | 3x10 ³ | 6x10 ⁹ | 1x10 ⁴ |
| Radium (88) Ra 223 | S | 2x10 ⁹ | 2x10 ⁵ | 6x10 ¹¹ | 7x10 ⁷ |
| | I | 2x10 ¹⁰ | 1x10 ⁴ | 8x10 ¹² | 4x10 ⁶ |
| Ra 224 | S | 5x10 ⁹ | 7x10 ⁵ | 2x10 ¹⁰ | 2x10 ⁶ |
| | I | 7x10 ¹⁰ | 2x10 ⁴ | 2x10 ¹¹ | 5x10 ⁶ |
| Ra 226 | S | 3x10 ¹¹ | 4x10 ⁷ | 3x10 ¹² | 3x10 ⁸ |
| | I | 5x10 ¹¹ | 9x10 ⁴ | 2x10 ¹² | 3x10 ⁵ |
| Ra 228 | S | 7x10 ¹¹ | 8x10 ⁷ | 2x10 ¹² | 3x10 ⁸ |
| | I | 4x10 ¹¹ | 7x10 ⁴ | 1x10 ¹² | 3x10 ⁵ |
| Raden (86) Rn 220 | S | 3x10 ⁷ | | 1x10 ⁸ | |
| | I | | | | |
| Rn 222 ² | S | 3x10 ⁸ | | 3x10 ⁹ | |
| | I | | | | |
| Rhenium (75) Re 183 | S | 3x10 ⁶ | 2x10 ² | 9x10 ⁸ | 6x10 ⁴ |
| | I | 2x10 ⁷ | 8x10 ³ | 5x10 ⁹ | 3x10 ⁴ |
| Re 186 | S | 6x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 9x10 ⁵ |
| | I | 2x10 ⁷ | 1x10 ³ | 8x10 ⁹ | 5x10 ⁵ |
| Re 187 | S | 9x10 ⁶ | 7x10 ² | 3x10 ⁷ | 3x10 ³ |
| | I | 5x10 ⁷ | 4x10 ² | 2x10 ⁸ | 2x10 ³ |
| Re 188 | S | 4x10 ⁷ | 2x10 ³ | 1x10 ⁸ | 6x10 ⁵ |
| | I | 2x10 ⁷ | 9x10 ⁴ | 6x10 ⁹ | 3x10 ⁵ |
| Rhodium (45) Rh 103m | S | 8x10 ⁵ | 4x10 ¹ | 3x10 ⁶ | 1x10 ² |
| | I | 6x10 ⁵ | 3x10 ¹ | 2x10 ⁶ | 1x10 ² |
| Rh 105 | S | 8x10 ⁷ | 4x10 ³ | 3x10 ⁸ | 1x10 ⁴ |
| | I | 5x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| Rubidium (37) Rb 86 | S | 3x10 ⁷ | 2x10 ³ | 1x10 ⁸ | 7x10 ⁵ |
| | I | 7x10 ⁸ | 7x10 ⁴ | 2x10 ⁹ | 2x10 ⁵ |
| Rb 87 | S | 5x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | I | 7x10 ⁸ | 5x10 ³ | 2x10 ⁹ | 2x10 ⁴ |
| Ruthenium (44) Ru 97 | S | 2x10 ⁶ | 1x10 ² | 8x10 ⁸ | 4x10 ⁴ |
| | I | 2x10 ⁶ | 1x10 ² | 6x10 ⁸ | 3x10 ⁴ |
| Ru 102 | S | 5x10 ⁷ | 2x10 ³ | 2x10 ⁸ | 8x10 ⁵ |
| | I | 8x10 ⁸ | 2x10 ³ | 3x10 ⁹ | 8x10 ⁵ |
| Ru 105 | S | 7x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | I | 5x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| Ru 106 | S | 8x10 ⁸ | 4x10 ⁴ | 3x10 ⁹ | 1x10 ⁵ |
| | I | 6x10 ⁹ | 3x10 ⁴ | 2x10 ¹⁰ | 1x10 ⁵ |
| Samarium (62) Sm 147 | S | 7x10 ¹¹ | 2x10 ³ | 2x10 ¹² | 6x10 ⁵ |
| | I | 3x10 ¹⁰ | 2x10 ³ | 9x10 ¹² | 7x10 ⁵ |
| Sm 151 | S | 6x10 ⁸ | 1x10 ² | 2x10 ⁹ | 4x10 ⁴ |
| | I | 1x10 ⁷ | 1x10 ² | 5x10 ⁹ | 4x10 ⁴ |
| Sm 153 | S | 5x10 ⁷ | 2x10 ³ | 2x10 ⁸ | 8x10 ⁵ |
| | I | 4x10 ⁷ | 2x10 ³ | 1x10 ⁸ | 8x10 ⁵ |
| Scandium (21) Sc 46 | S | 2x10 ⁷ | 1x10 ³ | 8x10 ⁹ | 4x10 ⁵ |
| | I | 2x10 ⁸ | 1x10 ³ | 8x10 ¹⁰ | 4x10 ⁵ |
| Sc 47 | S | 6x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 9x10 ⁵ |
| | I | 5x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 9x10 ⁵ |
| Sc 48 | S | 2x10 ⁷ | 8x10 ⁴ | 6x10 ⁹ | 3x10 ⁵ |
| | I | 1x10 ⁷ | 8x10 ⁴ | 5x10 ⁹ | 3x10 ⁵ |
| Selenium (34) Se 75 | S | 1x10 ⁶ | 9x10 ³ | 4x10 ⁸ | 3x10 ⁴ |
| | I | 1x10 ⁷ | 8x10 ³ | 4x10 ⁹ | 3x10 ⁴ |
| Silicon (14) Si 31 | S | 6x10 ⁶ | 3x10 ² | 2x10 ⁷ | 9x10 ⁴ |
| | I | 1x10 ⁶ | 6x10 ² | 3x10 ⁸ | 2x10 ⁴ |
| Silver (47) Ag 105 | S | 6x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | I | 8x10 ⁸ | 3x10 ³ | 3x10 ⁹ | 1x10 ⁴ |
| Ag 110m | S | 2x10 ⁷ | 9x10 ⁴ | 7x10 ⁹ | 3x10 ⁵ |
| | I | 1x10 ⁸ | 9x10 ⁴ | 3x10 ¹⁰ | 3x10 ⁵ |
| Ag 111 | S | 3x10 ⁷ | 1x10 ³ | 1x10 ⁸ | 4x10 ⁵ |
| | I | 2x10 ⁷ | 1x10 ³ | 8x10 ⁹ | 4x10 ⁵ |
| Sodium (11) Na 22 | S | 2x10 ⁷ | 1x10 ³ | 6x10 ⁹ | 4x10 ⁵ |
| | I | 9x10 ⁹ | 9x10 ⁴ | 3x10 ¹⁰ | 3x10 ⁵ |
| Na 24 | S | 1x10 ⁶ | 6x10 ³ | 4x10 ⁸ | 2x10 ⁴ |
| | I | 1x10 ⁷ | 8x10 ⁴ | 5x10 ⁹ | 3x10 ⁵ |
| Strontium (38) Sr 85m | S | 4x10 ⁵ | 2x10 ¹ | 1x10 ⁶ | 7x10 ³ |
| | I | 3x10 ⁵ | 2x10 ¹ | 1x10 ⁶ | 7x10 ³ |

| | | | | | |
|------------------------|---|--------------------|-------------------|--------------------|-------------------|
| Sr 85 | S | 2x10 ⁷ | 3x10 ³ | 8x10 ⁹ | 1x10 ⁴ |
| | I | 1x10 ⁷ | 5x10 ³ | 4x10 ⁹ | 2x10 ⁴ |
| Sr 89 | S | 3x10 ⁸ | 3x10 ⁴ | 3x10 ¹⁰ | 3x10 ⁶ |
| | I | 4x10 ⁸ | 8x10 ⁴ | 1x10 ⁹ | 3x10 ⁵ |
| Sr 90 | S | 1x10 ⁹ | 1x10 ⁵ | 3x10 ¹¹ | 3x10 ⁷ |
| | I | 5x10 ⁹ | 1x10 ⁵ | 2x10 ¹⁰ | 4x10 ⁵ |
| Sr 91 | S | 4x10 ⁷ | 2x10 ³ | 2x10 ⁸ | 7x10 ⁵ |
| | I | 3x10 ⁷ | 1x10 ³ | 9x10 ⁹ | 5x10 ⁵ |
| Sr 92 | S | 4x10 ⁷ | 2x10 ³ | 2x10 ⁸ | 7x10 ⁵ |
| | I | 3x10 ⁷ | 2x10 ³ | 1x10 ⁸ | 6x10 ⁵ |
| Sulfur (16) S 35 | S | 3x10 ⁷ | 2x10 ³ | 9x10 ⁹ | 6x10 ⁵ |
| | I | 2x10 ⁷ | 8x10 ³ | 9x10 ⁹ | 3x10 ⁴ |
| Tantalum (73) Ta 182 | S | 4x10 ⁸ | 1x10 ³ | 1x10 ⁹ | 4x10 ⁵ |
| | I | 2x10 ⁸ | 1x10 ³ | 7x10 ¹⁰ | 4x10 ⁵ |
| Technetium (43) Tc 96m | S | 8x10 ⁵ | 4x10 ¹ | 3x10 ⁶ | 1x10 ² |
| | I | 2x10 ⁵ | 3x10 ¹ | 1x10 ⁶ | 1x10 ² |
| Tc 96 | S | 6x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | I | 2x10 ⁷ | 1x10 ³ | 8x10 ⁹ | 5x10 ⁴ |
| Tc 97m | S | 2x10 ⁶ | 1x10 ² | 8x10 ⁸ | 4x10 ⁴ |
| | I | 2x10 ⁷ | 5x10 ² | 5x10 ⁹ | 2x10 ⁴ |
| Tc 97 | S | 1x10 ⁵ | 5x10 ² | 4x10 ⁷ | 2x10 ³ |
| | I | 3x10 ⁷ | 2x10 ² | 1x10 ⁸ | 8x10 ⁴ |
| Tc 99m | S | 4x10 ⁵ | 2x10 ¹ | 1x10 ⁶ | 6x10 ³ |
| | I | 1x10 ⁵ | 8x10 ¹ | 5x10 ⁷ | 3x10 ³ |
| Tc 99 | S | 2x10 ⁶ | 1x10 ² | 7x10 ⁸ | 3x10 ⁴ |
| | I | 6x10 ⁸ | 5x10 ² | 2x10 ⁹ | 2x10 ⁴ |
| Tellurium (52) Te 125m | S | 4x10 ⁷ | 5x10 ³ | 1x10 ⁸ | 2x10 ⁴ |
| | I | 1x10 ⁷ | 3x10 ³ | 4x10 ⁹ | 1x10 ⁴ |
| Te 127m | S | 1x10 ⁷ | 2x10 ³ | 5x10 ⁹ | 6x10 ⁵ |
| | I | 4x10 ⁸ | 2x10 ³ | 1x10 ⁹ | 5x10 ⁵ |
| Te 127 | S | 2x10 ⁶ | 8x10 ³ | 6x10 ⁸ | 3x10 ⁴ |
| | I | 9x10 ⁷ | 5x10 ³ | 3x10 ⁸ | 2x10 ⁴ |
| Te 129m | S | 8x10 ⁸ | 1x10 ³ | 3x10 ⁹ | 3x10 ⁵ |
| | I | 3x10 ⁸ | 6x10 ⁴ | 1x10 ⁹ | 2x10 ⁵ |
| Te 129 | S | 5x10 ⁶ | 2x10 ² | 2x10 ⁷ | 8x10 ⁴ |
| | I | 4x10 ⁶ | 2x10 ² | 1x10 ⁷ | 8x10 ⁴ |
| Te 131m | S | 4x10 ⁷ | 2x10 ³ | 1x10 ⁸ | 6x10 ⁵ |
| | I | 2x10 ⁷ | 1x10 ³ | 6x10 ⁹ | 4x10 ⁵ |
| Te 132 | S | 2x10 ⁷ | 9x10 ⁴ | 7x10 ⁹ | 3x10 ⁵ |
| | I | 1x10 ⁷ | 6x10 ⁴ | 4x10 ⁹ | 2x10 ⁵ |
| Terbium (65) Tb 160 | S | 1x10 ⁷ | 1x10 ³ | 3x10 ⁹ | 4x10 ⁵ |
| | I | 3x10 ⁸ | 1x10 ³ | 1x10 ⁹ | 4x10 ⁵ |
| Thallium (81) Tl 200 | S | 3x10 ⁶ | 1x10 ² | 9x10 ⁸ | 4x10 ⁴ |
| | I | 1x10 ⁶ | 7x10 ² | 4x10 ⁸ | 2x10 ⁴ |
| Tl 201 | S | 2x10 ⁶ | 9x10 ² | 7x10 ⁸ | 3x10 ⁴ |
| | I | 9x10 ⁷ | 5x10 ² | 3x10 ⁸ | 2x10 ⁴ |
| Tl 202 | S | 8x10 ⁷ | 4x10 ³ | 3x10 ⁹ | 1x10 ⁴ |
| | I | 2x10 ⁷ | 2x10 ³ | 8x10 ⁹ | 7x10 ⁵ |
| Tl 204 | S | 6x10 ⁷ | 3x10 ³ | 2x10 ⁸ | 1x10 ⁴ |
| | I | 3x10 ⁸ | 2x10 ³ | 9x10 ¹⁰ | 6x10 ⁵ |
| Thorium ((90)) Th 227 | S | 3x10 ¹⁰ | 5x10 ⁴ | 1x10 ¹¹ | 2x10 ⁵ |
| | I | 2x10 ¹⁰ | 5x10 ⁴ | 6x10 ¹² | 2x10 ⁵ |
| Th 228 | S | 9x10 ¹² | 2x10 ⁴ | 3x10 ¹³ | 7x10 ⁶ |
| | I | 6x10 ¹² | 4x10 ⁴ | 2x10 ¹³ | 1x10 ⁶ |
| Th 230 | S | 2x10 ¹² | 5x10 ⁵ | 8x10 ¹⁴ | 2x10 ⁶ |
| | I | 1x10 ¹¹ | 9x10 ⁴ | 3x10 ¹³ | 3x10 ⁵ |
| Th 231 | S | 1x10 ⁶ | 7x10 ³ | 5x10 ⁸ | 2x10 ⁴ |
| | I | 1x10 ⁶ | 7x10 ³ | 4x10 ⁸ | 2x10 ⁴ |
| Th 232 | S | 3x10 ¹¹ | 5x10 ⁵ | 1x10 ¹² | 2x10 ⁶ |
| | I | 3x10 ¹¹ | 1x10 ⁵ | 1x10 ¹² | 4x10 ⁵ |
| Th natural | S | 6x10 ¹¹ | 6x10 ⁵ | 2x10 ¹² | 2x10 ⁶ |
| | I | 6x10 ¹¹ | 6x10 ⁴ | 2x10 ¹² | 2x10 ⁵ |
| Th 234 | S | 6x10 ⁸ | 5x10 ⁴ | 2x10 ⁹ | 2x10 ⁵ |
| | I | 3x10 ⁸ | 5x10 ⁴ | 1x10 ⁹ | 2x10 ⁵ |
| Thulium (69) Tm 170 | S | 4x10 ⁸ | 1x10 ³ | 1x10 ⁹ | 5x10 ⁵ |
| | I | 3x10 ⁸ | 1x10 ³ | 1x10 ⁹ | 5x10 ⁵ |
| Tm 171 | S | 1x10 ⁷ | 1x10 ² | 4x10 ⁹ | 5x10 ⁴ |
| | I | 2x10 ⁷ | 1x10 ² | 8x10 ⁹ | 5x10 ⁴ |
| | | | | | |

Table listing radionuclides such as Uranium (92), Vanadium (23), Xenon (54), Ytterbium (70), Yttrium (39), Zinc (30), and Zirconium (40) with their respective decay modes and activity values.

Vanadium (23) - V 48 - S 2x10^-7, I 6x10^-8, 9x10^-4, 8x10^-4, 6x10^-9, 3x10^-5, 2x10^-9, 3x10^-5

Xenon (54) - Xe 131m Sub 2x10^-5, Xe 133m Sub 1x10^-5, Xe 133 Sub 1x10^-5, Xe 135 Sub 4x10^-6

Ytterbium (70) - Yb 175 - S 7x10^-7, I 6x10^-7, 3x10^-3, 3x10^-3, 2x10^-8, 1x10^-4, 2x10^-8, 1x10^-4

Yttrium (39) - Y 90, Y 91m, Y 91, Y 92, Y 93 - S, I, Sub values ranging from 1x10^-7 to 8x10^-4

Zinc (30) - Zn 65, Zn 69m, Zn 69 - S, I, Sub values ranging from 1x10^-7 to 9x10^-6

Zirconium (40) - Zr 93, Zr 95, Zr 97 - S, I, Sub values ranging from 1x10^-7 to 9x10^-8

Any single radionuclide not listed above with decay mode other than alpha emission or spontaneous fission and with radioactive half life less than 2 hours. Sub 1x10^-6, 3x10^-8

Any single radionuclide not listed above with decay mode other than alpha emission or spontaneous fission and with radioactive half life greater than 2 hours. 3x10^-9, 9x10^-5, 1x10^-10, 3x10^-6

Any single radionuclide not listed above, which decays by alpha emission or spontaneous fission. 6x10^-13, 4x10^-7, 2x10^-14, 3x10^-8

For purposes of these regulations, the designation 10 (number), indicates 10 raised to the minus (number) power.*

Notes: 1-Soluble (S); Insoluble (I).

2 "Sub" means that values given are for submersion in a semispherical infinite cloud of airborne material.

3 For purposes of these regulations, it may be assumed that the daughter activity concentrations in the following table are equivalent to an air concentration of 10^-7 microcuries of radon-

222 per milliliter of air in equilibrium with the daughters RaA, RaB, RaC, and RaC'.

Alpha-Emitting Daughter Activity Collected Per Milliliter of Air

Table with 3 columns: Maximum Time Between Collection and Measurement (hours), Microcuries/ml, Total alpha disintegrations per minute per ml. Values range from 0.5 to 3.0 hours.

a. The duration of sample collection and the duration of measurement should be sufficiently short compared to the time between collection and measurement, as not to have a statistically significant effect upon the results.

4. For soluble mixtures of U-238, U-234 and U-235 in air chemical toxicity may be the limiting factor. If the percentage by weight (enrichment) of U-235 is less than 5, the concentration value for a 40 hour work week, Table I, is 0.2 milligrams uranium per cubic meter of air average.

SA = 3.6x10^-7 curies/gram U U depleted SA = (0.4 + 0.38 E + 0.0034 E^2) 10^-6 E >= 0.72

where E is the percentage by weight of U-235, expressed as percent.

Note: In any case where there is a mixture in air or water of more than one radionuclide, the limiting values for purposes of this Appendix should be determined as follows:

1. If the identity and concentration of each radionuclide in the mixture are known, the limiting values should be derived as follows: Determine, for each radionuclide in the mixture, the ratio between the quantity present in the mixture and the limit otherwise established in Appendix "A" for the specific radionuclide when not in a mixture. The sum of such ratios for all the radionuclides in the mixture may not exceed "1" (i.e., "unity")

Example: If radionuclides a, b, and c are present in concentrations Ca, Cb, and Cc, and if the applicable MPC's are MPCa, MPCb, and MPCc, respectively, then the concentrations shall be limited so that the following relationship exists:

Ca/MPCa + Cb/MPCb + Cc/MPCc <= 1

2. If either the identity or the concentration of any radionuclide in the mixture is not known, the limiting values for purposes of Appendix "A" shall be:

- a. For purposes of Table I, Col. 1 6x10^-13
b. For purposes of Table I, Col. 2 4x10^-7
c. For purposes of Table II, Col. 1 2x10^-14
d. For purposes of Table II, Col. 2 3x10^-8

2. If any of the conditions specified below are met, the corresponding values specified below may be used in lieu of those specified in paragraph 2, above:

a. If the identity of each radionuclide in the mixture is known but the concentration of one or more of the radionuclides in the mixture is not known, the concentration limit for the mixture is the limit specified in Appen-

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dix "A" for the radionuclide in the mixture having the lowest concentration limit; or

b. If the identity of each radionuclide in the mixture is not known, but it is known that certain radionuclides specified in Appendix "A" are not present in the mixture, the concentration limit for the mixture is the lowest concentration limit specified in Appendix "A" for any radionuclide which is not known to be absent from the mixture; or

e. Radionuclide

| Table I Restricted Area | | Table II Unrestricted Area | |
|----------------------------|-----------------------|-------------------------------|-----------------------|
| Column 1 | Column 2 | Column 1 | Column 2 |
| Air | Water | Air | Water |
| ($\mu\text{Ci/ml}$) | ($\mu\text{Ci/ml}$) | ($\mu\text{Ci/ml}$) | ($\mu\text{Ci/ml}$) |

If it is known that Sr-90, I-125, I-126, I-129, I-131, (I-133 Table II only), Pb-210, Po-210, At-211, Ra-223, Ra-224, Ra-226, Ac-227, Ra-228, Th-230, Pa-231, Th-232, Th-nat, Cm-248, Cf-254, and Fm-256 are not present _____ 9×10^{-5} _____ 3×10^{-6}

If it is known that Sr-90, I-125, I-126, I-129, (I-131, I-133, Table II only), Pb-210, Po-210, Ra-223, Ra-226, Ra-228, Pa-231, Th-nat, Cm-248, Cf-254, and Fm-256 are not present _____ 6×10^{-5} _____ 2×10^{-6}

If it is known that Sr-90, I-129 (I-125, I-126, I-131, Table II only), Pb-210, Ra-226, Ra-228, Cm-248, and Cf-254 are not present _____ 2×10^{-5} _____ 6×10^{-7}

If it is known that (I-129, Table II only), Ra-226, and Ra-228 are not present _____ 3×10^{-6} _____ 1×10^{-7}

If it is known that alpha emitters and Sr-90, I-129, Pb-210, Ac-227, Ra-228, Pa-230, Pa-241, and Bk-249 are not present _____ 3×10^{-9} _____ 1×10^{-10}

If it is known that alpha emitters and Pb-210, Ac-227, Ra-228, and Pu-241 are not present _____ 3×10^{-10} _____ 1×10^{-11}

If it is known that alpha emitters and Ac-227 are not present _____ 3×10^{-11} _____ 1×10^{-12}

If it is known that Ac-227, Th-230, Pa-231, Pu-238, Pu-239, Pu-240, Pu-242, Pu-244, Cm-248, Cf-249 and Cf-251 are not present _____ 3×10^{-12} _____ 1×10^{-13}

4. If the mixture of radionuclides consists of uranium and its daughter products in ore dust prior to chemical processing of the uranium ore, the values specified below may be used in lieu of those determined in accordance with paragraph 1 above or those specified in paragraphs 2 and 3 above.

a. For purposes of Table I, Column 1, 1×10^{-10} $\mu\text{Ci/ml}$ gross alpha activity; or 5×10^{-11} $\mu\text{Ci/ml}$ natural uranium; or 75 micrograms per cubic meter of air natural uranium.

b. For purposes of Table II, Column 1, 3×10^{-12} $\mu\text{Ci/ml}$ gross alpha activity; 2×10^{-12} $\mu\text{Ci/ml}$ natural uranium; or 3 micrograms per cubic meter of air natural uranium.

5. For purposes of this note, a radionuclide may be considered as not present in a mixture if (a) the ratio of the concentration of that radionuclide in the mixture (C_p) to the concentration limit for that radionuclide specified in Table II of Appendix "A" (MPC_p) does not exceed 1/10, (i.e., $C_p/MPC_p \leq 1/10$) and (b) the sum of such ratios for all radionuclides considered as not

present in the mixture does not exceed 1/4 (i.e., $\sum C_p/MPC_p + C_y/MPC_y \leq 1/4$.)

For each radionuclide, Table I indicates the chemical form which is to be used for selecting the appropriate ALI or DAC value. The ALIs and DACs for inhalation are given for an aerosol with an activity median aerodynamic diameter (AMAD) of 1 μm (micron) and for three classes (D,W,Y) of radioactive material, which refer to their retention (approximately days, weeks or years) in the pulmonary region of the lung. This classification applies to a range of clearance half-times for D if less than ten days, for W from ten to one hundred days, and for Y greater than one hundred days. Table II provides concentration limits for airborne and liquid effluents released to the general environment. Table III provides concentration limits for discharges to sanitary sewerage.

Note: The values in Tables I, II, and III are presented in the computer "E" notation. In this notation a value of 6E-02 represents a value of 6×10^{-2} or 0.06, 6E+2 represents 6×10^2 or 600, and 6E+0 represents 6×10^0 or 6.

Table I "Occupational Values"

Note that the columns in Table I of this appendix captioned "Oral Ingestion ALI," "Inhalation ALI," and "DAC," are applicable to occupational exposure to radioactive material.

The ALIs in this appendix are the annual intakes of given radionuclide by "Reference Man" which would result in either: A committed effective dose equivalent of 0.05 Sv (5 rem), stochastic ALI; or a committed dose equivalent of 0.5 Sv (50 rem) to an organ or tissue, nonstochastic ALI. The stochastic ALIs were derived to result in a risk, due to irradiation of organs and tissues, comparable to the risk associated with deep dose equivalent to the whole body of 0.05 Sv (5 rem). The derivation includes multiplying the committed dose equivalent to an organ or tissue by a weighting factor, w_T . This weighting factor is the proportion of the risk of stochastic effects resulting from irradiation of the organ or tissue, T, to the total risk of stochastic effects when the whole body is irradiated uniformly. The values of w_T are listed under the definition of weighting factor in WAC 246-221-005. The nonstochastic ALIs were derived to avoid nonstochastic effects, such as prompt damage to tissue or reduction in organ function.

A value of $w_T = 0.06$ is applicable to each of the five organs or tissues in the "remainder" category receiving the highest dose equivalents, and the dose equivalents of all other remaining tissues may be disregarded. The following portions of the GI tract — stomach, small intestine, upper large intestine, and lower large intestine — are to be treated as four separate organs.

Note that the dose equivalents for an extremity, elbows, arms below the elbows, feet and lower legs, knees, and legs below the knees, skin, and lens of the eye are not considered in computing the committed effective dose equivalent, but are subject to limits that must be met separately.

When an ALI is defined by the stochastic dose limit, this value alone is given. When an ALI is determined by the non-stochastic dose limit to an organ, the organ or tissue to which the limit applies is shown, and the ALI for the

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stochastic limit is shown in parentheses. Abbreviated organ or tissue designations are used:

LLI wall = lower large intestine wall;
St. wall = stomach wall;
Blad wall = bladder wall; and
Bone surf = bone surface.

The use of the ALIs listed first, the more limiting of the stochastic and nonstochastic ALIs, will ensure that nonstochastic effects are avoided and that the risk of stochastic effects is limited to an acceptably low value. If, in a particular situation involving a radionuclide for which the nonstochastic ALI is limiting, use of that nonstochastic ALI is considered unduly conservative, the licensee may use the stochastic ALI to determine the committed effective dose equivalent. However, the licensee shall also ensure that the 0.5 Sv (50 rem) dose equivalent limit for any organ or tissue is not exceeded by the sum of the external deep dose equivalent plus the internal committed dose equivalent to that organ, not the effective dose. For the case where there is no external dose contribution, this would be demonstrated if the sum of the fractions of the nonstochastic ALIs (ALI_{ns}) that contribute to the committed dose equivalent to the organ receiving the highest dose does not exceed unity, that is, \sum (intake (in μCi) of each radionuclide/ ALI_{ns}) ≤ 1.0 . If there is an external deep dose equivalent contribution of H_{ext} , then this sum must be less than $1 - (H_{\text{ext}}/50)$, instead of ≤ 1.0 .

The derived air concentration (DAC) values are derived limits intended to control chronic occupational exposures. The relationship between the DAC and the ALI is given by:

$$\text{DAC} = \text{ALI (in } \mu\text{Ci)} / (2000 \text{ hours per working year} \times 60 \text{ minutes/hour} \times 2 \times 10^4 \text{ ml per minute}) = [\text{ALI} / 2.4 \times 10^9] \mu\text{Ci/ml,}$$

where 2×10^4 ml per minute is the volume of air breathed per minute at work by Reference Man under working conditions of light work.

The DAC values relate to one of two modes of exposure: Either external submersion or the internal committed dose equivalents resulting from inhalation of radioactive materials. DACs based upon submersion are for immersion in a semi-infinite cloud of uniform concentration and apply to each radionuclide separately.

The ALI and DAC values include contributions to exposure by the single radionuclide named and any ingrowth of daughter radionuclides produced in the body by decay of the parent. However, intakes that include both the parent and daughter radionuclides should be treated by the general method appropriate for mixtures.

The values of ALI and DAC do not apply directly when the individual both ingests and inhales a radionuclide, when the individual is exposed to a mixture of radionuclides by either inhalation or ingestion or both, or when the individual is exposed to both internal and external irradiation. See WAC 246-221-015. When an individual is exposed to radioactive materials which fall under several of the translocation classifications of the same radionuclide, such as, Class D, Class W, or Class Y, the exposure may be evaluated as if it were a mixture of different radionuclides.

It should be noted that the classification of a compound as Class D, W, or Y is based on the chemical form of the compound and does not take into account the radiological half-life of different radionuclides. For this reason, values are given for Class D, W, and Y compounds, even for very short-lived radionuclides.

Table II "Effluent Concentrations"

The columns in Table II of this appendix captioned "Effluents," "Air" and "Water" are applicable to the assessment and control of dose to the public, particularly in the implementation of the provisions of WAC 246-221-070. The concentration values given in Columns 1 and 2 of Table II are equivalent to the radionuclide concentrations which, if inhaled or ingested continuously over the course of a year, would produce a total effective dose equivalent of 0.50 mSv (0.05 rem).

Consideration of nonstochastic limits has not been included in deriving the air and water effluent concentration limits because nonstochastic effects are presumed not to occur at or below the dose levels established for individual members of the public. For radionuclides, where the nonstochastic limit was governing in deriving the occupational DAC, the stochastic ALI was used in deriving the corresponding airborne effluent limit in Table II. For this reason, the DAC and airborne effluent limits are not always proportional as was the case in the previous Appendix A of this chapter.

The air concentration values listed in Table II, Column 1 were derived by one of two methods. For those radionuclides for which the stochastic limit is governing, the occupational stochastic inhalation ALI was divided by 2.4×10^9 , relating the inhalation ALI to the DAC, as explained above, and then divided by a factor of three hundred. The factor of three hundred includes the following components: A factor of fifty to relate the 0.05 Sv (5 rem) annual occupational dose limit to the 1 mSv (0.1 rem) limit for members of the public, a factor of three to adjust for the difference in exposure time and the inhalation rate for a worker and that for members of the public; and a factor of two to adjust the occupational values, derived for adults, so that they are applicable to other age groups.

For those radionuclides for which submersion, that is external dose, is limiting, the occupational DAC in Table I, Column 3 was divided by two hundred nineteen. The factor of two hundred nineteen is composed of a factor of fifty, as described above, and a factor of 4.38 relating occupational exposure for two thousand hours per year to full-time exposure (eight thousand seven hundred sixty hours per year). Note that an additional factor of two for age considerations is not warranted in the submersion case.

The water concentrations were derived by taking the most restrictive occupational stochastic oral ingestion ALI and dividing by 7.3×10^7 . The factor of 7.3×10^7 (ml) includes the following components: The factors of fifty and two described above and a factor of 7.3×10^5 (ml) which is the annual water intake of Reference Man.

Note 2 of this appendix provides groupings of radionuclides which are applicable to unknown mixtures of

radionuclides. These groupings, including occupational inhalation ALIs and DACs, air and water effluent concentrations and releases to sewer, require demonstrating that the most limiting radionuclides in successive classes are absent. The limit for the unknown mixture is defined when the presence of one of the listed radionuclides cannot be definitely excluded as being present either from knowledge of the radionuclide composition of the source or from actual measurements.

| | | | | | |
|--------------------|-----------|------------|------------------|-----------|-----------|
| <u>Lutetium</u> | <u>Lu</u> | <u>71</u> | <u>Yttrium</u> | <u>Y</u> | <u>39</u> |
| <u>Magnesium</u> | <u>Mg</u> | <u>12</u> | <u>Zinc</u> | <u>Zn</u> | <u>30</u> |
| <u>Manganese</u> | <u>Mn</u> | <u>25</u> | <u>Zirconium</u> | <u>Zr</u> | <u>40</u> |
| <u>Mendelevium</u> | <u>Md</u> | <u>101</u> | | | |

Table III "Releases to Sewers"

The monthly average concentrations for release to sanitary sewerage are applicable to the provisions in WAC 246-221-190. The concentration values were derived by taking the most restrictive occupational stochastic oral ingestion ALI and dividing by 7.3×10^6 (ml). The factor of 7.3×10^6 (ml) is composed of a factor of 7.3×10^5 (ml), the annual water intake by Reference Man, and a factor of ten, such that the concentrations, if the sewage released by the licensee were the only source of water ingested by a Reference Man during a year, would result in a committed effective dose equivalent of 5 mSv (0.5 rem).

LIST OF ELEMENTS

| <u>Name</u> | <u>Symbol</u> | <u>Atomic Number</u> | <u>Name</u> | <u>Symbol</u> | <u>Atomic Number</u> |
|--------------------|---------------|----------------------|---------------------|---------------|----------------------|
| <u>Actinium</u> | <u>Ac</u> | <u>89</u> | <u>Mercury</u> | <u>Hg</u> | <u>80</u> |
| <u>Aluminum</u> | <u>Al</u> | <u>13</u> | <u>Molybdenum</u> | <u>Mo</u> | <u>42</u> |
| <u>Americium</u> | <u>Am</u> | <u>95</u> | <u>Neodymium</u> | <u>Nd</u> | <u>60</u> |
| <u>Antimony</u> | <u>Sb</u> | <u>51</u> | <u>Neptunium</u> | <u>Np</u> | <u>93</u> |
| <u>Argon</u> | <u>Ar</u> | <u>18</u> | <u>Nickel</u> | <u>Ni</u> | <u>28</u> |
| <u>Arsenic</u> | <u>As</u> | <u>33</u> | <u>Niobium</u> | <u>Nb</u> | <u>41</u> |
| <u>Astatine</u> | <u>At</u> | <u>85</u> | <u>Osmium</u> | <u>Os</u> | <u>76</u> |
| <u>Barium</u> | <u>Ba</u> | <u>56</u> | <u>Palladium</u> | <u>Pd</u> | <u>46</u> |
| <u>Berkelium</u> | <u>Bk</u> | <u>97</u> | <u>Phosphorus</u> | <u>P</u> | <u>15</u> |
| <u>Beryllium</u> | <u>Be</u> | <u>4</u> | <u>Platinum</u> | <u>Pt</u> | <u>78</u> |
| <u>Bismuth</u> | <u>Bi</u> | <u>83</u> | <u>Plutonium</u> | <u>Pu</u> | <u>94</u> |
| <u>Bromine</u> | <u>Br</u> | <u>35</u> | <u>Polonium</u> | <u>Po</u> | <u>84</u> |
| <u>Cadmium</u> | <u>Cd</u> | <u>48</u> | <u>Potassium</u> | <u>K</u> | <u>19</u> |
| <u>Calcium</u> | <u>Ca</u> | <u>20</u> | <u>Praseodymium</u> | <u>Pr</u> | <u>59</u> |
| <u>Californium</u> | <u>Cf</u> | <u>98</u> | <u>Promethium</u> | <u>Pm</u> | <u>61</u> |
| <u>Carbon</u> | <u>C</u> | <u>6</u> | <u>Protactinium</u> | <u>Pa</u> | <u>91</u> |
| <u>Cerium</u> | <u>Ce</u> | <u>58</u> | <u>Radium</u> | <u>Ra</u> | <u>88</u> |
| <u>Cesium</u> | <u>Cs</u> | <u>55</u> | <u>Radon</u> | <u>Rn</u> | <u>86</u> |
| <u>Chlorine</u> | <u>Cl</u> | <u>17</u> | <u>Rhenium</u> | <u>Re</u> | <u>75</u> |
| <u>Chromium</u> | <u>Cr</u> | <u>24</u> | <u>Rhodium</u> | <u>Rh</u> | <u>45</u> |
| <u>Cobalt</u> | <u>Co</u> | <u>27</u> | <u>Rubidium</u> | <u>Rb</u> | <u>37</u> |
| <u>Copper</u> | <u>Cu</u> | <u>29</u> | <u>Ruthenium</u> | <u>Ru</u> | <u>44</u> |
| <u>Curium</u> | <u>Cm</u> | <u>96</u> | <u>Samarium</u> | <u>Sm</u> | <u>62</u> |
| <u>Dysprosium</u> | <u>Dy</u> | <u>66</u> | <u>Scandium</u> | <u>Sc</u> | <u>21</u> |
| <u>Einsteinium</u> | <u>Es</u> | <u>99</u> | <u>Selenium</u> | <u>Se</u> | <u>34</u> |
| <u>Erbium</u> | <u>Er</u> | <u>68</u> | <u>Silicon</u> | <u>Si</u> | <u>14</u> |
| <u>Europium</u> | <u>Eu</u> | <u>63</u> | <u>Silver</u> | <u>Ag</u> | <u>47</u> |
| <u>Fermium</u> | <u>Fm</u> | <u>100</u> | <u>Sodium</u> | <u>Na</u> | <u>11</u> |
| <u>Fluorine</u> | <u>F</u> | <u>9</u> | <u>Strontium</u> | <u>Sr</u> | <u>38</u> |
| <u>Francium</u> | <u>Fr</u> | <u>87</u> | <u>Sulfur</u> | <u>S</u> | <u>16</u> |
| <u>Gadolinium</u> | <u>Gd</u> | <u>64</u> | <u>Tantalum</u> | <u>Ta</u> | <u>73</u> |
| <u>Gallium</u> | <u>Ga</u> | <u>31</u> | <u>Technetium</u> | <u>Tc</u> | <u>43</u> |
| <u>Germanium</u> | <u>Ge</u> | <u>32</u> | <u>Tellurium</u> | <u>Te</u> | <u>52</u> |
| <u>Gold</u> | <u>Au</u> | <u>79</u> | <u>Terbium</u> | <u>Tb</u> | <u>65</u> |
| <u>Hafnium</u> | <u>Hf</u> | <u>72</u> | <u>Thallium</u> | <u>Tl</u> | <u>81</u> |
| <u>Holmium</u> | <u>Ho</u> | <u>67</u> | <u>Thorium</u> | <u>Th</u> | <u>90</u> |
| <u>Hydrogen</u> | <u>H</u> | <u>1</u> | <u>Thulium</u> | <u>Tm</u> | <u>69</u> |
| <u>Indium</u> | <u>In</u> | <u>49</u> | <u>Tin</u> | <u>Sn</u> | <u>50</u> |
| <u>Iodine</u> | <u>I</u> | <u>53</u> | <u>Titanium</u> | <u>Ti</u> | <u>22</u> |
| <u>Iridium</u> | <u>Ir</u> | <u>77</u> | <u>Tungsten</u> | <u>W</u> | <u>74</u> |
| <u>Iron</u> | <u>Fe</u> | <u>26</u> | <u>Uranium</u> | <u>U</u> | <u>92</u> |
| <u>Krypton</u> | <u>Kr</u> | <u>36</u> | <u>Vanadium</u> | <u>V</u> | <u>23</u> |
| <u>Lanthanum</u> | <u>La</u> | <u>57</u> | <u>Xenon</u> | <u>Xe</u> | <u>54</u> |
| <u>Lead</u> | <u>Pb</u> | <u>82</u> | <u>Ytterbium</u> | <u>Yb</u> | <u>70</u> |

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| Atomic No. | Radionuclide | Class | Table I Occupational Values | | | Table II Effluent Concentrations | | Table III Releases to Sewers |
|------------|--------------------------|--|--------------------------------|------------|--------|-------------------------------------|--------------|---|
| | | | Col. 1 | Col. 2 | Col. 3 | Col. 1 | Col. 2 | Monthly Average Concentration μCi/ml |
| | | | Oral Ingestion | Inhalation | | Air μCi/ml | Water μCi/ml | |
| | | ALI μCi | ALI μCi | DAC μCi/ml | | | | |
| 1 | Hydrogen-3 | Water, DAC includes skin absorption | 8E+4 | 8E+4 | 2E-5 | 1E-7 | 1E-3 | 1E-2 |
| | | Gas (HT or T ₂) Submersion ¹ : Use above values as HT and T ₂ oxidize in air and in the body to HTO. | | | | | | |
| 4 | Beryllium-7 | W, all compounds except those given for Y | 4E+4 | 2E+4 | 9E-6 | 3E-8 | 6E-4 | 6E-3 |
| | | Y, oxides, halides, and nitrates | - | 2E+4 | 8E-6 | 3E-8 | - | - |
| 4 | Beryllium-10 | W, see ⁷ Be | 1E+3 | 2E+2 | 6E-8 | 2E-10 | - | - |
| | | Y, see ⁷ Be | LLI wall (1E+3) | - | - | - | 2E-5 | 2E-4 |
| 6 | Carbon-11 ² | Monoxide | - | 1E+6 | 5E-4 | 2E-6 | - | - |
| | | Dioxide | - | 6E+5 | 3E-4 | 9E-7 | - | - |
| | | Compounds | 4E+5 | 4E+5 | 2E-4 | 6E-7 | 6E-3 | 6E-2 |
| 6 | Carbon-14 | Monoxide | - | 2E+6 | 7E-4 | 2E-6 | - | - |
| | | Dioxide | - | 2E+5 | 9E-5 | 3E-7 | - | - |
| | | Compounds | 2E+3 | 2E+3 | 1E-6 | 3E-9 | 3E-5 | 3E-4 |
| 9 | Fluorine-18 ² | D, fluorides of H, Li, Na, K, Rb, Cs, and Fr | 5E+4 | 7E+4 | 3E-5 | 1E-7 | - | - |
| | | W, fluorides of Be, Mg, Ca, Sr, Ba, Ra, Al, Ga, In, Tl, As, Sb, Bi, Fe, Ru, Os, Co, Ni, Pd, Pt, Cu, Ag, Au, Zn, Cd, Hg, Sc, Y, Ti, Zr, V, Nb, Ta, Mn, Tc, and Re | St wall (5E+4) | - | - | - | 7E-4 | 7E-3 |
| | | Y, lanthanum fluoride | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| | | | - | 8E+4 | 3E-5 | 1E-7 | - | - |
| 11 | Sodium-22 | D, all compounds | 4E+2 | 6E+2 | 3E-7 | 9E-10 | 6E-6 | 6E-5 |
| 11 | Sodium-24 | D, all compounds | 4E+3 | 5E+3 | 2E-6 | 7E-9 | 5E-5 | 5E-4 |
| 12 | Magnesium-28 | D, all compounds except those given for W | 7E+2 | 2E+3 | 7E-7 | 2E-9 | 9E-6 | 9E-5 |
| | | W, oxides, hydroxides, carbides, halides, and nitrates | - | 1E+3 | 5E-7 | 2E-9 | - | - |
| 13 | Aluminum-26 | D, all compounds except those given for W | 4E+2 | 6E+1 | 3E-8 | 9E-11 | 6E-6 | 6E-5 |
| | | W, oxides, hydroxides, carbides, halides, and nitrates | - | 9E+1 | 4E-8 | 1E-10 | - | - |
| 14 | Silicon-31 | D, all compounds except those given for W and Y | 9E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| | | W, oxides, hydroxides, carbides, and nitrates | - | 3E+4 | 1E-5 | 5E-8 | - | - |
| | | Y, aluminosilicate glass | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 14 | Silicon-32 | D, see ³¹ Si | 2E+3 | 2E+2 | 1E-7 | 3E-10 | - | - |
| | | W, see ³¹ Si | LLI wall (3E+3) | - | - | - | 4E-5 | 4E-4 |
| | | Y, see ³¹ Si | - | 1E+2 | 5E-8 | 2E-10 | - | - |
| | | | - | 5E+0 | 2E-9 | 7E-12 | - | - |

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| | | | | | | | | |
|----|---------------------------------|---|-------------------------|-------------------------|-------------|--------------|-------------|-------------|
| 15 | <u>Phosphorus-32</u> | <u>D, all compounds except phosphates given for W</u> | <u>6E+2</u> | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | <u>9E-6</u> | <u>9E-5</u> |
| | | <u>W, phosphates of Zn²⁺, S³⁺, Mg²⁺, Fe³⁺, Bi³⁺, and lanthanides</u> | - | <u>4E+2</u> | <u>2E-7</u> | <u>5E-10</u> | - | - |
| 15 | <u>Phosphorus-33</u> | <u>D, see ³²P</u> | <u>6E+3</u> | <u>8E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>8E-5</u> | <u>8E-4</u> |
| | | <u>W, see ³²P</u> | - | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| 16 | <u>Sulfur-35</u> | <u>Vapor</u> | - | <u>1E+4</u> | <u>6E-6</u> | <u>2E-8</u> | - | - |
| | | <u>D, sulfides and sulfates except those given for W</u> | <u>1E+4</u> | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | - | - |
| | | | <u>LLI wall (8E+3)</u> | - | - | - | <u>1E-4</u> | <u>1E-3</u> |
| | | <u>W, elemental sulfur, sulfides of Sr, Ba, Ge, Sn, Pb, As, Sb, Bi, Cu, Ag, Au, Zn, Cd, Hg, W, and Mo. Sulfates of Ca, Sr, Ba, Ra, As, Sb, and Bi</u> | - | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | - | - |
| 17 | <u>Chlorine-36</u> | <u>D, chlorides of H, Li, Na, K, Rb, Cs, and Fr</u> | <u>2E+3</u> | <u>2E+3</u> | <u>1E-6</u> | <u>3E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | <u>W, chlorides of lanthanides, Be, Mg, Ca, Sr, Ba, Ra, Al, Ga, In, Tl, Ge, Sn, Pb, As, Sb, Bi, Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Cu, Ag, Au, Zn, Cd, Hg, Sc, Y, Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, Mn, Tc, and Re</u> | - | <u>2E+2</u> | <u>1E-7</u> | <u>3E-10</u> | - | - |
| 17 | <u>Chlorine-38²</u> | <u>D, see ³⁶Cl</u> | <u>2E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | - | - |
| | | | <u>St wall (3E+4)</u> | - | - | - | <u>3E-4</u> | <u>3E-3</u> |
| | | <u>W, see ³⁶Cl</u> | - | <u>5E+4</u> | <u>2E-5</u> | <u>6E-8</u> | - | - |
| 17 | <u>Chlorine-39²</u> | <u>D, see ³⁶Cl</u> | <u>2E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>7E-8</u> | - | - |
| | | | <u>St wall (4E+4)</u> | - | - | - | <u>5E-4</u> | <u>5E-3</u> |
| | | <u>W, see ³⁶Cl</u> | - | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | - | - |
| 18 | <u>Argon-37</u> | <u>Submersion¹</u> | - | - | <u>1E+0</u> | <u>6E-3</u> | - | - |
| 18 | <u>Argon-39</u> | <u>Submersion¹</u> | - | - | <u>2E-4</u> | <u>8E-7</u> | - | - |
| 18 | <u>Argon-41</u> | <u>Submersion¹</u> | - | - | <u>3E-6</u> | <u>1E-8</u> | - | - |
| 19 | <u>Potassium-40</u> | <u>D, all compounds</u> | <u>3E+2</u> | <u>4E+2</u> | <u>2E-7</u> | <u>6E-10</u> | <u>4E-6</u> | <u>4E-5</u> |
| 19 | <u>Potassium-42</u> | <u>D, all compounds</u> | <u>5E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | <u>6E-5</u> | <u>6E-4</u> |
| 19 | <u>Potassium-43</u> | <u>D, all compounds</u> | <u>6E+3</u> | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>9E-5</u> | <u>9E-4</u> |
| 19 | <u>Potassium-44²</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>7E+4</u> | <u>3E-5</u> | <u>9E-8</u> | - | - |
| | | | <u>St wall (4E+4)</u> | - | - | - | <u>5E-4</u> | <u>5E-3</u> |
| 19 | <u>Potassium-45²</u> | <u>D, all compounds</u> | <u>3E+4</u> | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - |
| | | | <u>St wall (5E+4)</u> | - | - | - | <u>7E-4</u> | <u>7E-3</u> |
| 20 | <u>Calcium-41</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>4E+3</u> | <u>2E-6</u> | - | - | - |
| | | | <u>Bone surf (4E+3)</u> | <u>Bone surf (4E+3)</u> | - | <u>5E-9</u> | <u>6E-5</u> | <u>6E-4</u> |
| 20 | <u>Calcium-45</u> | <u>W, all compounds</u> | <u>2E+3</u> | <u>8E+2</u> | <u>4E-7</u> | <u>1E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 20 | <u>Calcium-47</u> | <u>W, all compounds</u> | <u>8E+2</u> | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| 21 | <u>Scandium-43</u> | <u>Y, all compounds</u> | <u>7E+3</u> | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 21 | <u>Scandium-44m</u> | <u>Y, all compounds</u> | <u>5E+2</u> | <u>7E+2</u> | <u>3E-7</u> | <u>1E-9</u> | <u>7E-6</u> | <u>7E-5</u> |
| 21 | <u>Scandium-44</u> | <u>Y, all compounds</u> | <u>4E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>5E-5</u> | <u>5E-4</u> |
| 21 | <u>Scandium-46</u> | <u>Y, all compounds</u> | <u>9E+2</u> | <u>2E+2</u> | <u>1E-7</u> | <u>3E-10</u> | <u>1E-5</u> | <u>1E-4</u> |
| 21 | <u>Scandium-47</u> | <u>Y, all compounds</u> | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| | | | <u>LLI wall (3E+3)</u> | - | - | - | <u>4E-5</u> | <u>4E-4</u> |
| 21 | <u>Scandium-48</u> | <u>Y, all compounds</u> | <u>8E+2</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | <u>1E-5</u> | <u>1E-4</u> |

| | | | | | | | | |
|----|----------------------------------|--|---------------|------------------|-------------|--------------|-------------|-------------|
| 21 | <u>Scandium-49²</u> | Y, all compounds | <u>2E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| 22 | <u>Titanium-44</u> | D, all compounds except those given for W and Y | <u>3E+2</u> | <u>1E+1</u> | <u>5E-9</u> | <u>2E-11</u> | <u>4E-6</u> | <u>4E-5</u> |
| | | W, oxides, hydroxides, carbides, halides, and nitrates | - | <u>3E+1</u> | <u>1E-8</u> | <u>4E-11</u> | - | - |
| | | Y, SrTiO | - | <u>6E+0</u> | <u>2E-9</u> | <u>8E-12</u> | - | - |
| 22 | <u>Titanium-45</u> | D, see ⁴⁴ Ti | <u>9E+3</u> | <u>3E+4</u> | <u>1E-5</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | W, see ⁴⁴ Ti | - | <u>4E+4</u> | <u>1E-5</u> | <u>5E-8</u> | - | - |
| | | Y, see ⁴⁴ Ti | - | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | - | - |
| 23 | <u>Vanadium-47²</u> | D, all compounds except those given for W | <u>3E+4</u> | <u>8E+4</u> | <u>3E-5</u> | <u>1E-7</u> | - | - |
| | | St wall | <u>(3E+4)</u> | - | - | - | <u>4E-4</u> | <u>4E-3</u> |
| | | W, oxides, hydroxides, carbides, and halides | - | <u>1E+5</u> | <u>-5</u> | <u>1E-7</u> | - | - |
| 23 | <u>Vanadium-48</u> | D, see ⁴⁷ V | <u>6E+2</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>9E-6</u> | <u>9E-5</u> |
| | | W, see ⁴⁷ V | - | <u>6E+2</u> | <u>3E-7</u> | <u>9E-10</u> | - | - |
| 23 | <u>Vanadium-49</u> | D, see ⁴⁷ V | <u>7E+4</u> | <u>3E+4</u> | <u>1E-5</u> | - | - | - |
| | | LLI wall | <u>(9E+4)</u> | <u>Bone surf</u> | - | - | - | - |
| | | W, see ⁴⁷ V | - | <u>(3E+4)</u> | <u>-</u> | <u>5E-8</u> | <u>1E-3</u> | <u>1E-2</u> |
| | | | - | <u>2E+4</u> | <u>8E-6</u> | <u>2E-8</u> | - | - |
| 24 | <u>Chromium-48</u> | D, all compounds except those given for W and Y | <u>6E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>8E-5</u> | <u>8E-4</u> |
| | | W, halides and nitrates | - | <u>7E+3</u> | <u>3E-6</u> | <u>1E-8</u> | - | - |
| | | Y, oxides and hydroxides | - | <u>7E+3</u> | <u>3E-6</u> | <u>1E-8</u> | - | - |
| 24 | <u>Chromium-49²</u> | D, see ⁴⁸ Cr | <u>3E+4</u> | <u>8E+4</u> | <u>4E-5</u> | <u>1E-7</u> | <u>4E-4</u> | <u>4E-3</u> |
| | | W, see ⁴⁸ Cr | - | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | - | - |
| | | Y, see ⁴⁸ Cr | - | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | - | - |
| 24 | <u>Chromium-51</u> | D, see ⁴⁸ Cr | <u>4E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>6E-8</u> | <u>5E-4</u> | <u>5E-3</u> |
| | | W, see ⁴⁸ Cr | - | <u>2E+4</u> | <u>1E-5</u> | <u>3E-8</u> | - | - |
| | | Y, see ⁴⁸ Cr | - | <u>2E+4</u> | <u>8E-6</u> | <u>3E-8</u> | - | - |
| 25 | <u>Manganese-51²</u> | D, all compounds except those given for W | <u>2E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>7E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| | | W, oxides, hydroxides, halides, and nitrates | - | <u>6E+4</u> | <u>3E-5</u> | <u>8E-8</u> | - | - |
| 25 | <u>Manganese-52m²</u> | D, see ⁵¹ Mn | <u>3E+4</u> | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | - | - |
| | | St wall | <u>(4E+4)</u> | - | - | - | <u>5E-4</u> | <u>5E-3</u> |
| | | W, see ⁵¹ Mn | - | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | - | - |
| 25 | <u>Manganese-52</u> | D, see ⁵¹ Mn | <u>7E+2</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | W, see ⁵¹ Mn | - | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | - | - |
| 25 | <u>Manganese-53</u> | D, see ⁵¹ Mn | <u>5E+4</u> | <u>1E+4</u> | <u>5E-6</u> | - | <u>7E-4</u> | <u>7E-3</u> |
| | | Bone surf | - | <u>(2E+4)</u> | - | <u>3E-8</u> | - | - |
| | | W, see ⁵¹ Mn | - | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | - | - |
| 25 | <u>Manganese-54</u> | D, see ⁵¹ Mn | <u>2E+3</u> | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | W, see ⁵¹ Mn | - | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | - | - |
| 25 | <u>Manganese-56</u> | D, see ⁵¹ Mn | <u>5E+3</u> | <u>2E+4</u> | <u>6E-6</u> | <u>2E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | W, see ⁵¹ Mn | - | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | - | - |
| 26 | <u>Iron-52</u> | D, all compounds except those given for W | <u>9E+2</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | W, oxides, hydroxides, and halides | - | <u>2E+3</u> | <u>1E-6</u> | <u>3E-9</u> | - | - |
| 26 | <u>Iron-55</u> | D, see ⁵² Fe | <u>9E+3</u> | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | W, see ⁵² Fe | - | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| 26 | <u>Iron-59</u> | D, see ⁵² Fe | <u>8E+2</u> | <u>3E+2</u> | <u>1E-7</u> | <u>5E-10</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | W, see ⁵² Fe | - | <u>5E+2</u> | <u>2E-7</u> | <u>7E-10</u> | - | - |
| 26 | <u>Iron-60</u> | D, see ⁵² Fe | <u>3E+1</u> | <u>6E+0</u> | <u>3E-9</u> | <u>9E-12</u> | <u>4E-7</u> | <u>4E-6</u> |
| | | W, see ⁵² Fe | - | <u>2E+1</u> | <u>8E-9</u> | <u>3E-11</u> | - | - |
| 27 | <u>Cobalt-55</u> | W, all compounds except those given for Y | <u>1E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | Y, oxides, hydroxides, halides, and nitrates | - | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |

PERMANENT

| | | | | | | | | |
|----|-------------------------------|---|--|---|---|---|------------------|------------------|
| 27 | <u>Cobalt-56</u> | W, see ⁵⁵ Co Y, see ⁵⁵ Co | <u>5E+2</u> <u>4E+2</u> | <u>3E+2</u> <u>2E+2</u> | <u>1E-7</u> <u>8E-8</u> | <u>4E-10</u> <u>3E-10</u> | <u>6E-6</u> - | <u>6E-5</u> - |
| 27 | <u>Cobalt-57</u> | W, see ⁵⁵ Co Y, see ⁵⁵ Co | <u>8E+3</u> <u>4E+3</u> | <u>3E+3</u> <u>7E+2</u> | <u>1E-6</u> <u>3E-7</u> | <u>4E-9</u> <u>9E-10</u> | <u>6E-5</u> - | <u>6E-4</u> - |
| 27 | <u>Cobalt-58m</u> | W, see ⁵⁵ Co Y, see ⁵⁵ Co | <u>6E+4</u> - | <u>9E+4</u> <u>6E+4</u> | <u>4E-5</u> <u>3E-5</u> | <u>1E-7</u> <u>9E-8</u> | <u>8E-4</u> - | <u>8E-3</u> - |
| 27 | <u>Cobalt-58</u> | W, see ⁵⁵ Co Y, see ⁵⁵ Co | <u>2E+3</u> <u>1E+3</u> | <u>1E+3</u> <u>7E+2</u> | <u>5E-7</u> <u>3E-7</u> | <u>2E-9</u> <u>1E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 27 | <u>Cobalt-60m²</u> | W, see ⁵⁵ Co | <u>1E+6</u> St wall <u>(1E+6)</u> | <u>4E+6</u> - | <u>2E-3</u> - | <u>6E-6</u> - | - | - |
| | | Y, see ⁵⁵ Co | - | <u>3E+6</u> | <u>1E-3</u> | <u>4E-6</u> | <u>2E-2</u> | <u>2E-1</u> |
| 27 | <u>Cobalt-60</u> | W, see ⁵⁵ Co Y, see ⁵⁵ Co | <u>5E+2</u> <u>2E+2</u> | <u>2E+2</u> <u>3E+1</u> | <u>7E-8</u> <u>1E-8</u> | <u>2E-10</u> <u>5E-11</u> | <u>3E-6</u> - | <u>3E-5</u> - |
| 27 | <u>Cobalt-61²</u> | W, see ⁵⁵ Co Y, see ⁵⁵ Co | <u>2E+4</u> <u>2E+4</u> | <u>6E+4</u> <u>6E+4</u> | <u>3E-5</u> <u>2E-5</u> | <u>9E-8</u> <u>8E-8</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 27 | <u>Cobalt-62m²</u> | W, see ⁵⁵ Co | <u>4E+4</u> St wall <u>(5E+4)</u> | <u>2E+5</u> - | <u>7E-5</u> - | <u>2E-7</u> - | - | - |
| | | Y, see ⁵⁵ Co | - | <u>2E+5</u> | <u>-5</u> | <u>2E-7</u> | <u>7E-4</u> | <u>7E-3</u> |
| 28 | <u>Nickel-56</u> | D, all compounds except those given for W W, oxides, hydroxides, and carbides Vapor | <u>1E+3</u> - | <u>2E+3</u> <u>1E+3</u> <u>1E+3</u> | <u>8E-7</u> <u>5E-7</u> <u>5E-7</u> | <u>3E-9</u> <u>2E-9</u> <u>2E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 28 | <u>Nickel-57</u> | D, see ⁵⁶ Ni W, see ⁵⁶ Ni Vapor | <u>2E+3</u> - | <u>5E+3</u> <u>3E+3</u> <u>6E+3</u> | <u>2E-6</u> <u>1E-6</u> <u>3E-6</u> | <u>7E-9</u> <u>4E-9</u> <u>9E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 28 | <u>Nickel-59</u> | D, see ⁵⁶ Ni W, see ⁵⁶ Ni Vapor | <u>2E+4</u> - | <u>4E+3</u> <u>7E+3</u> <u>2E+3</u> | <u>2E-6</u> <u>3E-6</u> <u>8E-7</u> | <u>5E-9</u> <u>1E-8</u> <u>3E-9</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 28 | <u>Nickel-63</u> | D, see ⁵⁶ Ni W, see ⁵⁶ Ni Vapor | <u>9E+3</u> - | <u>2E+3</u> <u>3E+3</u> <u>8E+2</u> | <u>7E-7</u> <u>1E-6</u> <u>3E-7</u> | <u>2E-9</u> <u>4E-9</u> <u>1E-9</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 28 | <u>Nickel-65</u> | D, see ⁵⁶ Ni W, see ⁵⁶ Ni Vapor | <u>8E+3</u> - | <u>2E+4</u> <u>3E+4</u> <u>2E+4</u> | <u>1E-5</u> <u>1E-5</u> <u>7E-6</u> | <u>3E-8</u> <u>4E-8</u> <u>2E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 28 | <u>Nickel-66</u> | D, see ⁵⁶ Ni | <u>4E+2</u> LLI wall <u>(5E+2)</u> | <u>2E+3</u> - | <u>7E-7</u> - | <u>2E-9</u> - | - | - |
| | | W, see ⁵⁶ Ni Vapor | - | <u>6E+2</u> <u>3E+3</u> | <u>3E-7</u> <u>1E-6</u> | <u>9E-10</u> <u>4E-9</u> | <u>6E-6</u> - | <u>6E-5</u> - |
| 29 | <u>Copper-60²</u> | D, all compounds except those given for W and Y | <u>3E+4</u> St wall <u>(3E+4)</u> | <u>9E+4</u> - | <u>4E-5</u> - | <u>1E-7</u> - | - | - |
| | | W, sulfides, halides, and nitrates Y, oxides and hydroxides | - | <u>1E+5</u> <u>1E+5</u> | <u>5E-5</u> <u>4E-5</u> | <u>2E-7</u> <u>1E-7</u> | <u>4E-4</u> - | <u>4E-3</u> - |
| 29 | <u>Copper-61</u> | D, see ⁶⁰ Cu W, see ⁶⁰ Cu Y, see ⁶⁰ Cu | <u>1E+4</u> - | <u>3E+4</u> <u>4E+4</u> <u>4E+4</u> | <u>1E-5</u> <u>2E-5</u> <u>1E-5</u> | <u>4E-8</u> <u>6E-8</u> <u>5E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 29 | <u>Copper-64</u> | D, see ⁶⁰ Cu W, see ⁶⁰ Cu Y, see ⁶⁰ Cu | <u>1E+4</u> - | <u>3E+4</u> <u>2E+4</u> <u>2E+4</u> | <u>1E-5</u> <u>1E-5</u> <u>9E-6</u> | <u>4E-8</u> <u>3E-8</u> <u>3E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 29 | <u>Copper-67</u> | D, see ⁶⁰ Cu W, see ⁶⁰ Cu Y, see ⁶⁰ Cu | <u>5E+3</u> - | <u>8E+3</u> <u>5E+3</u> <u>5E+3</u> | <u>3E-6</u> <u>2E-6</u> <u>2E-6</u> | <u>1E-8</u> <u>7E-9</u> <u>6E-9</u> | <u>6E-5</u> - | <u>6E-4</u> - |
| 30 | <u>Zinc-62</u> | Y, all compounds | <u>1E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 30 | <u>Zinc-63²</u> | Y, all compounds | <u>2E+4</u> St wall <u>(3E+4)</u> | <u>7E+4</u> - | <u>3E-5</u> - | <u>9E-8</u> - | - | - |
| | | Y, all compounds | <u>4E+2</u> | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | <u>5E-6</u> | <u>5E-5</u> |
| 30 | <u>Zinc-65</u> | Y, all compounds | <u>4E+2</u> | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | <u>5E-6</u> | <u>5E-5</u> |
| 30 | <u>Zinc-69m</u> | Y, all compounds | <u>4E+3</u> | <u>7E+3</u> | <u>3E-6</u> | <u>1E-8</u> | <u>6E-5</u> | <u>6E-4</u> |

| | | | | | | | | |
|----|---------------------------------|---|--|----------------------------|----------------------------|-----------------------------|------------------|------------------|
| 30 | <u>Zinc-69²</u> | <u>Y, all compounds</u> | <u>6E+4</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | <u>8E-4</u> | <u>8E-3</u> |
| 30 | <u>Zinc-71m</u> | <u>Y, all compounds</u> | <u>6E+3</u> | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | <u>8E-5</u> | <u>8E-4</u> |
| 30 | <u>Zinc-72</u> | <u>Y, all compounds</u> | <u>1E+3</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| 31 | <u>Gallium-65²</u> | <u>D, all compounds except those given for W</u> | <u>5E+4</u> <u>St wall</u> <u>(6E+4)</u> | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| | | <u>W, oxides, hydroxides, carbides, halides, and nitrates</u> | - | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - |
| 31 | <u>Gallium-66</u> | <u>D, see ⁶⁵Ga</u> <u>W, see ⁶⁵Ga</u> | <u>1E+3</u> - | <u>4E+3</u> <u>3E+3</u> | <u>1E-6</u> <u>1E-6</u> | <u>5E-9</u> <u>4E-9</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| 31 | <u>Gallium-67</u> | <u>D, see ⁶⁵Ga</u> <u>W, see ⁶⁵Ga</u> | <u>7E+3</u> - | <u>1E+4</u> <u>1E+4</u> | <u>6E-6</u> <u>4E-6</u> | <u>2E-8</u> <u>1E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 31 | <u>Gallium-68²</u> | <u>D, see ⁶⁵Ga</u> <u>W, see ⁶⁵Ga</u> | <u>2E+4</u> - | <u>4E+4</u> <u>5E+4</u> | <u>2E-5</u> <u>2E-5</u> | <u>6E-8</u> <u>7E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 31 | <u>Gallium-70²</u> | <u>D, see ⁶⁵Ga</u> | <u>5E+4</u> <u>St wall</u> <u>(7E+4)</u> | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| | | <u>W, see ⁶⁵Ga</u> | - | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| 31 | <u>Gallium-72</u> | <u>D, see ⁶⁵Ga</u> <u>W, see ⁶⁵Ga</u> | <u>1E+3</u> - | <u>4E+3</u> <u>3E+3</u> | <u>1E-6</u> <u>1E-6</u> | <u>5E-9</u> <u>4E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 31 | <u>Gallium-73</u> | <u>D, see ⁶⁵Ga</u> <u>W, see ⁶⁵Ga</u> | <u>5E+3</u> - | <u>2E+4</u> <u>2E+4</u> | <u>6E-6</u> <u>6E-6</u> | <u>2E-8</u> <u>2E-8</u> | <u>7E-5</u> - | <u>7E-4</u> - |
| 32 | <u>Germanium-66</u> | <u>D, all compounds except those given for W</u> <u>W, oxides, sulfides, and halides</u> | <u>2E+4</u> - | <u>3E+4</u> <u>2E+4</u> | <u>1E-5</u> <u>8E-6</u> | <u>4E-8</u> <u>3E-8</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 32 | <u>Germanium-67²</u> | <u>D, see ⁶⁶Ge</u> | <u>3E+4</u> <u>St wall</u> <u>(4E+4)</u> | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | - | - |
| | | <u>W, see ⁶⁶Ge</u> | - | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | <u>6E-4</u> | <u>6E-3</u> |
| 32 | <u>Germanium-68</u> | <u>D, see ⁶⁶Ge</u> <u>W, see ⁶⁶Ge</u> | <u>5E+3</u> - | <u>4E+3</u> <u>1E+2</u> | <u>2E-6</u> <u>4E-8</u> | <u>5E-9</u> <u>1E-10</u> | <u>6E-5</u> - | <u>6E-4</u> - |
| 32 | <u>Germanium-69</u> | <u>D, see ⁶⁶Ge</u> <u>W, see ⁶⁶Ge</u> | <u>1E+4</u> - | <u>2E+4</u> <u>8E+3</u> | <u>6E-6</u> <u>3E-6</u> | <u>2E-8</u> <u>1E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 32 | <u>Germanium-71</u> | <u>D, see ⁶⁶Ge</u> <u>W, see ⁶⁶Ge</u> | <u>5E+5</u> - | <u>4E+5</u> <u>4E+4</u> | <u>2E-4</u> <u>2E-5</u> | <u>6E-7</u> <u>6E-8</u> | <u>7E-3</u> - | <u>7E-2</u> - |
| 32 | <u>Germanium-75²</u> | <u>D, see ⁶⁶Ge</u> | <u>4E+4</u> <u>St wall</u> <u>(7E+4)</u> | <u>8E+4</u> | <u>3E-5</u> | <u>1E-7</u> | - | - |
| | | <u>W, see ⁶⁶Ge</u> | - | <u>8E+4</u> | <u>4E-5</u> | <u>1E-7</u> | <u>9E-4</u> | <u>9E-3</u> |
| 32 | <u>Germanium-77</u> | <u>D, see ⁶⁶Ge</u> <u>W, see ⁶⁶Ge</u> | <u>9E+3</u> - | <u>1E+4</u> <u>6E+3</u> | <u>4E-6</u> <u>2E-6</u> | <u>1E-8</u> <u>8E-9</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 32 | <u>Germanium-78²</u> | <u>D, see ⁶⁶Ge</u> | <u>2E+4</u> <u>St wall</u> <u>(2E+4)</u> | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | - | - |
| | | <u>W, see ⁶⁶Ge</u> | - | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| 33 | <u>Arsenic-69²</u> | <u>W, all compounds</u> | <u>3E+4</u> <u>St wall</u> <u>(4E+4)</u> | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - |
| 33 | <u>Arsenic-70²</u> | <u>W, all compounds</u> | <u>1E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>7E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 33 | <u>Arsenic-71</u> | <u>W, all compounds</u> | <u>4E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>6E-9</u> | <u>5E-5</u> | <u>5E-4</u> |
| 33 | <u>Arsenic-72</u> | <u>W, all compounds</u> | <u>9E+2</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| 33 | <u>Arsenic-73</u> | <u>W, all compounds</u> | <u>8E+3</u> | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | <u>1E-4</u> | <u>1E-3</u> |
| 33 | <u>Arsenic-74</u> | <u>W, all compounds</u> | <u>1E+3</u> | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 33 | <u>Arsenic-76</u> | <u>W, all compounds</u> | <u>1E+3</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| 33 | <u>Arsenic-77</u> | <u>W, all compounds</u> | <u>4E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | - | - |

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| | | | <u>LLI wall</u> <u>(5E+3)</u> | - | - | - | <u>6E-5</u> | <u>6E-4</u> |
|----|---------------------------------|---|---|----------------------------|----------------------------|-----------------------------|----------------------|------------------|
| 33 | <u>Arsenic-78²</u> | <u>W, all compounds</u> | <u>8E+3</u> | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 34 | <u>Selenium-70²</u> | <u>D, all compounds except those given for W</u> <u>W, oxides, hydroxides, carbides, and elemental Se</u> | <u>2E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>5E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 34 | <u>Selenium-73m²</u> | <u>D, see ⁷⁰Se</u> <u>W, see ⁷⁰Se</u> | <u>6E+4</u> <u>3E+4</u> | <u>2E+5</u> <u>1E+5</u> | <u>6E-5</u> <u>6E-5</u> | <u>2E-7</u> <u>2E-7</u> | <u>4E-4</u> - | <u>4E-3</u> - |
| 34 | <u>Selenium-73</u> | <u>D, see ⁷⁰Se</u> <u>W, see ⁷⁰Se</u> | <u>3E+3</u> - | <u>1E+4</u> <u>2E+4</u> | <u>5E-6</u> <u>7E-6</u> | <u>2E-8</u> <u>2E-8</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 34 | <u>Selenium-75</u> | <u>D, see ⁷⁰Se</u> <u>W, see ⁷⁰Se</u> | <u>5E+2</u> - | <u>7E+2</u> <u>6E+2</u> | <u>3E-7</u> <u>3E-7</u> | <u>1E-9</u> <u>8E-10</u> | <u>7E-6</u> - | <u>7E-5</u> - |
| 34 | <u>Selenium-79</u> | <u>D, see ⁷⁰Se</u> <u>W, see ⁷⁰Se</u> | <u>6E+2</u> - | <u>8E+2</u> <u>6E+2</u> | <u>3E-7</u> <u>2E-7</u> | <u>1E-9</u> <u>8E-10</u> | <u>8E-6</u> - | <u>8E-5</u> - |
| 34 | <u>Selenium-81m²</u> | <u>D, see ⁷⁰Se</u> <u>W, see ⁷⁰Se</u> | <u>4E+4</u> <u>2E+4</u> | <u>7E+4</u> <u>7E+4</u> | <u>3E-5</u> <u>3E-5</u> | <u>9E-8</u> <u>1E-7</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 34 | <u>Selenium-81²</u> | <u>D, see ⁷⁰Se</u> <u>W, see ⁷⁰Se</u> | <u>6E+4</u> <u>St wall</u> <u>(8E+4)</u> - | <u>2E+5</u> - | <u>9E-5</u> - | <u>3E-7</u> <u>3E-7</u> | <u>1E-3</u> - | <u>1E-2</u> - |
| 34 | <u>Selenium-83²</u> | <u>D, see ⁷⁰Se</u> <u>W, see ⁷⁰Se</u> | <u>4E+4</u> <u>3E+4</u> | <u>1E+5</u> <u>1E+5</u> | <u>5E-5</u> <u>5E-5</u> | <u>2E-7</u> <u>2E-7</u> | <u>4E-4</u> - | <u>4E-3</u> - |
| 35 | <u>Bromine-74m²</u> | <u>D, bromides of H, Li, Na, K, Rb, Cs, and Fr</u> <u>W, bromides of lanthanides, Be, Mg, Ca, Sr, Ba, Ra, Al, Ga, In, Tl, Ge, Sn, Pb, As, Sb, Bi, Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Cu, Ag, Au, Zn, Cd, Hg, Sc, Y, Ti, Zr, Hf, V, Nb, Ta, Mn, Tc, and Re</u> | <u>1E+4</u> <u>St wall</u> <u>(2E+4)</u> - | <u>4E+4</u> - | <u>2E-5</u> - | <u>5E-8</u> - | <u>3E-4</u> - | <u>3E-3</u> - |
| 35 | <u>Bromine-74²</u> | <u>D, see ^{74m}Br</u> <u>W, see ^{74m}Br</u> | <u>2E+4</u> <u>St wall</u> <u>(4E+4)</u> - | <u>7E+4</u> - | <u>3E-5</u> - | <u>1E-7</u> <u>1E-7</u> | <u>5E-45E-3</u> - | <u>3E-3</u> - |
| 35 | <u>Bromine-75²</u> | <u>D, see ^{74m}Br</u> <u>W, see ^{74m}Br</u> | <u>3E+4</u> <u>St wall</u> <u>(4E+4)</u> - | <u>5E+4</u> - | <u>2E-5</u> <u>2E-5</u> | <u>7E-8</u> <u>7E-8</u> | <u>5E-4</u> - | <u>5E-3</u> - |
| 35 | <u>Bromine-76</u> | <u>D, see ^{74m}Br</u> <u>W, see ^{74m}Br</u> | <u>4E+3</u> - | <u>5E+3</u> <u>4E+3</u> | <u>2E-6</u> <u>2E-6</u> | <u>7E-9</u> <u>6E-9</u> | <u>5E-5</u> - | <u>5E-4</u> - |
| 35 | <u>Bromine-77</u> | <u>D, see ^{74m}Br</u> <u>W, see ^{74m}Br</u> | <u>2E+4</u> - | <u>2E+4</u> <u>2E+4</u> | <u>1E-5</u> <u>8E-6</u> | <u>3E-8</u> <u>3E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 35 | <u>Bromine-80m</u> | <u>D, see ^{74m}Br</u> <u>W, see ^{74m}Br</u> | <u>2E+4</u> - | <u>2E+4</u> <u>1E+4</u> | <u>7E-6</u> <u>6E-6</u> | <u>2E-8</u> <u>2E-8</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 35 | <u>Bromine-80²</u> | <u>D, see ^{74m}Br</u> <u>W, see ^{74m}Br</u> | <u>5E+4</u> <u>St wall</u> <u>(9E+4)</u> - | <u>2E+5</u> - | <u>8E-5</u> - | <u>3E-7</u> <u>3E-7</u> | <u>1E-3</u> - | <u>1E-2</u> - |
| 35 | <u>Bromine-82</u> | <u>D, see ^{74m}Br</u> <u>W, see ^{74m}Br</u> | <u>3E+3</u> - | <u>4E+3</u> <u>4E+3</u> | <u>2E-6</u> <u>2E-6</u> | <u>6E-9</u> <u>5E-9</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 35 | <u>Bromine-83</u> | <u>D, see ^{74m}Br</u> | <u>5E+4</u> <u>St wall</u> | <u>6E+4</u> | <u>3E-5</u> | <u>9E-8</u> | - | - |

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|----|----------------------------|---|----------|------|------|-------|------|------|
| | | | (7E+4) | - | - | - | 9E-4 | 9E-3 |
| | | W, see ^{74m} Br | - | 6E+4 | 3E-5 | 9E-8 | - | - |
| 35 | Bromine-84 ² | D, see ^{74m} Br | 2E+4 | 6E+4 | 2E-5 | 8E-8 | - | - |
| | | | St wall | | | | | |
| | | | (3E+4) | - | - | - | 4E-4 | 4E-3 |
| | | W, see ^{74m} Br | - | 6E+4 | 3E-5 | 9E-8 | - | - |
| 36 | Krypton-74 ² | Submersion ¹ | - | - | 3E-6 | 1E-8 | - | - |
| 36 | Krypton-76 | Submersion ¹ | - | - | 9E-6 | 4E-8 | - | - |
| 36 | Krypton-77 ² | Submersion ¹ | - | - | 4E-6 | 2E-8 | - | - |
| 36 | Krypton-79 | Submersion ¹ | - | - | 2E-5 | 7E-8 | - | - |
| 36 | Krypton-81 | Submersion ¹ | - | - | 7E-4 | 3E-6 | - | - |
| 36 | Krypton-83m ² | Submersion ¹ | - | - | 1E-2 | 5E-5 | - | - |
| 36 | Krypton-85m | Submersion ¹ | - | - | 2E-5 | 1E-7 | - | - |
| 36 | Krypton-85 | Submersion ¹ | - | - | 1E-4 | 7E-7 | - | - |
| 36 | Krypton-87 ² | Submersion ¹ | - | - | 5E-6 | 2E-8 | - | - |
| 36 | Krypton-88 | Submersion ¹ | - | - | 2E-6 | 9E-9 | - | - |
| 37 | Rubidium-79 ² | D, all compounds | 4E+4 | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | | St wall | | | | | |
| | | | (6E+4) | - | - | - | 8E-4 | 8E-3 |
| 37 | Rubidium-81m ² | D, all compounds | 2E+5 | 3E+5 | 1E-4 | 5E-7 | - | - |
| | | | St wall | | | | | |
| | | | (3E+5) | - | - | - | 4E-3 | 4E-2 |
| 37 | Rubidium-81 | D, all compounds | 4E+4 | 5E+4 | 2E-5 | 7E-8 | 5E-4 | 5E-3 |
| 37 | Rubidium-82m | D, all compounds | 1E+4 | 2E+4 | 7E-6 | 2E-8 | 2E-4 | 2E-3 |
| 37 | Rubidium-83 | D, all compounds | 6E+2 | 1E+3 | 4E-7 | 1E-9 | 9E-6 | 9E-5 |
| 37 | Rubidium-84 | D, all compounds | 5E+2 | 8E+2 | 3E-7 | 1E-9 | 7E-6 | 7E-5 |
| 37 | Rubidium-86 | D, all compounds | 5E+2 | 8E+2 | 3E-7 | 1E-9 | 7E-6 | 7E-5 |
| 37 | Rubidium-87 | D, all compounds | 1E+3 | 2E+3 | 6E-7 | 2E-9 | 1E-5 | 1E-4 |
| 37 | Rubidium-88 ² | D, all compounds | 2E+4 | 6E+4 | 3E-5 | 9E-8 | - | - |
| | | | St wall | | | | | |
| | | | (3E+4) | - | - | - | 4E-4 | 4E-3 |
| 37 | Rubidium-89 ² | D, all compounds | 4E+4 | 1E+5 | 6E-5 | 2E-7 | - | - |
| | | | St wall | | | | | |
| | | | (6E+4) | - | - | - | 9E-4 | 9E-3 |
| 38 | Strontium-80 ² | D, all soluble compounds except SrTiO | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 6E-5 | 6E-4 |
| | | Y, all insoluble com- pounds and SrTiO | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 38 | Strontium-81 ² | D, see ⁸⁰ Sr | 3E+4 | 8E+4 | 3E-5 | 1E-7 | 3E-4 | 3E-3 |
| | | Y, see ⁸⁰ Sr | 2E+4 | 8E+4 | 3E-5 | 1E-7 | - | - |
| 38 | Strontium-82 | D, see ⁸⁰ Sr | 3E+2 | 4E+2 | 2E-7 | 6E-10 | - | - |
| | | | LLI wall | | | | | |
| | | | (2E+2) | - | - | - | 3E-6 | 3E-5 |
| | | Y, see ⁸⁰ Sr | 2E+2 | 9E+1 | 4E-8 | 1E-10 | - | - |
| 38 | Strontium-83 | D, see ⁸⁰ Sr | 3E+3 | 7E+3 | 3E-6 | 1E-8 | 3E-5 | 3E-4 |
| | | Y, see ⁸⁰ Sr | 2E+3 | 4E+3 | 1E-6 | 5E-9 | - | - |
| 38 | Strontium-85m ² | D, see ⁸⁰ Sr | 2E+5 | 6E+5 | 3E-4 | 9E-7 | 3E-3 | 3E-2 |
| | | Y, see ⁸⁰ Sr | - | 8E+5 | 4E-4 | 1E-6 | - | - |

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| 38 | <u>Strontium-85</u> | <u>D, see ⁸⁰Sr</u> <u>Y, see ⁸⁰Sr</u> | <u>3E+3</u> - | <u>3E+3</u> <u>2E+3</u> | <u>1E-6</u> <u>6E-7</u> | <u>4E-9</u> <u>2E-9</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 38 | <u>Strontium-87m</u> | <u>D, see ⁸⁰Sr</u> <u>Y, see ⁸⁰Sr</u> | <u>5E+4</u> <u>4E+4</u> | <u>1E+5</u> <u>2E+5</u> | <u>5E-5</u> <u>6E-5</u> | <u>2E-7</u> <u>2E-7</u> | <u>6E-4</u> - | <u>6E-3</u> - |
| 38 | <u>Strontium-89</u> | <u>D, see ⁸⁰Sr</u> <u>Y, see ⁸⁰Sr</u> | <u>6E+2</u> <u>LLI wall</u> <u>(6E+2)</u> <u>5E+2</u> | <u>8E+2</u> - | <u>4E-7</u> - | <u>1E-9</u> - | - | <u>8E-6</u> <u>8E-5</u> |
| 38 | <u>Strontium-90</u> | <u>D, see ⁸⁰Sr</u> <u>Y, see ⁸⁰Sr</u> | <u>3E+1</u> <u>Bone surf</u> <u>(4E+1)</u> | <u>2E+1</u> <u>Bone surf</u> <u>(2E+1)</u> <u>4E+0</u> | <u>8E-9</u> - | - | <u>3E-11</u> <u>6E-12</u> | <u>5E-7</u> - |
| 38 | <u>Strontium-91</u> | <u>D, see ⁸⁰Sr</u> <u>Y, see ⁸⁰Sr</u> | <u>2E+3</u> - | <u>6E+3</u> <u>4E+3</u> | <u>2E-6</u> <u>1E-6</u> | <u>8E-9</u> <u>5E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 38 | <u>Strontium-92</u> | <u>D, see ⁸⁰Sr</u> <u>Y, see ⁸⁰Sr</u> | <u>3E+3</u> - | <u>9E+3</u> <u>7E+3</u> | <u>4E-6</u> <u>3E-6</u> | <u>1E-8</u> <u>9E-9</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 39 | <u>Yttrium-86m²</u> | <u>W, all compounds except</u> <u>those given for Y</u> <u>Y, oxides and hydroxides</u> | <u>2E+4</u> - | <u>6E+4</u> <u>5E+4</u> | <u>2E-5</u> <u>2E-5</u> | <u>8E-8</u> <u>8E-8</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 39 | <u>Yttrium-86</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>1E+3</u> - | <u>3E+3</u> <u>3E+3</u> | <u>1E-6</u> <u>E-6</u> | <u>5E-9</u> <u>5E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 39 | <u>Yttrium-87</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>2E+3</u> - | <u>3E+3</u> <u>3E+3</u> | <u>1E-6</u> <u>1E-6</u> | <u>5E-9</u> <u>5E-9</u> | <u>3E-5</u> - | <u>3E-4</u> - |
| 39 | <u>Yttrium-88</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>1E+3</u> - | <u>3E+2</u> <u>2E+2</u> | <u>1E-7</u> <u>1E-7</u> | <u>3E-10</u> <u>3E-10</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| 39 | <u>Yttrium-90m</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>8E+3</u> - | <u>1E+4</u> <u>1E+4</u> | <u>5E-6</u> <u>5E-6</u> | <u>2E-8</u> <u>2E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 39 | <u>Yttrium-90</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>4E+2</u> <u>LLI wall</u> <u>(5E+2)</u> | <u>7E+2</u> - | <u>3E-7</u> - | <u>9E-10</u> - | <u>7E-6</u> - | <u>7E-5</u> - |
| 39 | <u>Yttrium-91m²</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>1E+5</u> - | <u>2E+5</u> <u>2E+5</u> | <u>1E-4</u> <u>7E-5</u> | <u>3E-7</u> <u>2E-7</u> | <u>2E-3</u> - | <u>2E-2</u> - |
| 39 | <u>Yttrium-91</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>5E+2</u> <u>LLI wall</u> <u>(6E+2)</u> | <u>2E+2</u> - | <u>7E-8</u> - | <u>2E-10</u> - | <u>8E-6</u> - | <u>8E-5</u> - |
| 39 | <u>Yttrium-92</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>3E+3</u> - | <u>9E+3</u> <u>8E+3</u> | <u>4E-6</u> <u>3E-6</u> | <u>1E-8</u> <u>1E-8</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 39 | <u>Yttrium-93</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>1E+3</u> - | <u>3E+3</u> <u>2E+3</u> | <u>1E-6</u> <u>E-6</u> | <u>4E-9</u> <u>3E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 39 | <u>Yttrium-94²</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>2E+4</u> <u>St wall</u> <u>(3E+4)</u> | <u>8E+4</u> - | <u>3E-5</u> - | <u>1E-7</u> - | <u>4E-4</u> - | <u>4E-3</u> - |
| 39 | <u>Yttrium-95²</u> | <u>W, see ^{86m}Y</u> <u>Y, see ^{86m}Y</u> | <u>4E+4</u> <u>St wall</u> <u>(5E+4)</u> | <u>2E+5</u> - | <u>6E-5</u> - | <u>2E-7</u> - | <u>7E-4</u> - | <u>7E-3</u> - |
| 40 | <u>Zirconium-86</u> | <u>D, all compounds except</u> <u>those given for W and Y</u> <u>W, oxides, hydroxides,</u> <u>halides, and nitrates</u> <u>Y, carbide</u> | <u>1E+3</u> - | <u>4E+3</u> <u>3E+3</u> <u>2E+3</u> | <u>2E-6</u> <u>1E-6</u> <u>1E-6</u> | <u>6E-9</u> <u>4E-9</u> <u>3E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 40 | <u>Zirconium-88</u> | <u>D, see ⁸⁶Zr</u> <u>W, see ⁸⁶Zr</u> <u>Y, see ⁸⁶Zr</u> | <u>4E+3</u> - | <u>2E+2</u> <u>5E+2</u> <u>3E+2</u> | <u>9E-8</u> <u>2E-7</u> <u>1E-7</u> | <u>3E-10</u> <u>7E-10</u> <u>4E-10</u> | <u>5E-5</u> - | <u>5E-4</u> - |

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|----|-----------------------------------|---|---|--|---|---|-----------------------|-----------------------|
| 42 | <u>Molybdenum-93</u> | D, see ⁹⁰ Mo Y, see ⁹⁰ Mo | <u>4E+3</u> <u>2E+4</u> | <u>5E+3</u> <u>2E+2</u> | <u>2E-6</u> <u>8E-8</u> | <u>8E-9</u> <u>2E-10</u> | <u>5E-5</u> - | <u>5E-4</u> - |
| 42 | <u>Molybdenum-99</u> | D, see ⁹⁰ Mo Y, see ⁹⁰ Mo | <u>2E+3</u> LLI wall <u>(1E+3)</u> <u>1E+3</u> | <u>3E+3</u> - <u>1E+3</u> | <u>1E-6</u> - <u>6E-7</u> | <u>4E-9</u> - <u>2E-9</u> | - <u>2E-5</u> - | - <u>2E-4</u> - |
| 42 | <u>Molybdenum-101²</u> | D, see ⁹⁰ Mo Y, see ⁹⁰ Mo | <u>4E+4</u> St wall <u>(5E+4)</u> - | <u>1E+5</u> - <u>1E+5</u> | <u>6E-5</u> - <u>6E-5</u> | <u>2E-7</u> - <u>2E-7</u> | - <u>7E-4</u> - | - <u>7E-3</u> - |
| 43 | <u>Technetium-93m²</u> | D, all compounds except those given for W W, oxides, hydroxides, halides, and nitrates | <u>7E+4</u> - | <u>2E+5</u> <u>3E+5</u> | <u>6E-5</u> <u>1E-4</u> | <u>2E-7</u> <u>4E-7</u> | <u>1E-3</u> - | <u>1E-2</u> - |
| 43 | <u>Technetium-93</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>3E+4</u> - | <u>7E+4</u> <u>1E+5</u> | <u>3E-5</u> <u>4E-5</u> | <u>1E-7</u> <u>1E-7</u> | <u>4E-4</u> - | <u>4E-3</u> - |
| 43 | <u>Technetium-94m²</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>2E+4</u> - | <u>4E+4</u> <u>6E+4</u> | <u>2E-5</u> <u>2E-5</u> | <u>6E-8</u> <u>8E-8</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 43 | <u>Technetium-94</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>9E+3</u> - | <u>2E+4</u> <u>2E+4</u> | <u>8E-6</u> <u>1E-5</u> | <u>3E-8</u> <u>3E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 43 | <u>Technetium-95m</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>4E+3</u> - | <u>5E+3</u> <u>2E+3</u> | <u>2E-6</u> <u>8E-7</u> | <u>8E-9</u> <u>3E-9</u> | <u>5E-5</u> - | <u>5E-4</u> - |
| 43 | <u>Technetium-95</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>1E+4</u> - | <u>2E+4</u> <u>2E+4</u> | <u>9E-6</u> <u>8E-6</u> | <u>3E-8</u> <u>3E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 43 | <u>Technetium-96m²</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>2E+5</u> - | <u>3E+5</u> <u>2E+5</u> | <u>1E-4</u> <u>1E-4</u> | <u>4E-7</u> <u>3E-7</u> | <u>2E-3</u> - | <u>2E-2</u> - |
| 43 | <u>Technetium-96</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>2E+3</u> - | <u>3E+3</u> <u>2E+3</u> | <u>1E-6</u> <u>9E-7</u> | <u>5E-9</u> <u>3E-9</u> | <u>3E-5</u> - | <u>3E-4</u> - |
| 43 | <u>Technetium-97m</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>5E+3</u> - - | <u>7E+3</u> St wall <u>(7E+3)</u> <u>1E+3</u> | <u>3E-6</u> - <u>5E-7</u> | - <u>1E-8</u> <u>2E-9</u> | - - - | <u>6E-5</u> - - |
| 43 | <u>Technetium-97</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>4E+4</u> - | <u>5E+4</u> <u>6E+3</u> | <u>2E-5</u> <u>2E-6</u> | <u>7E-8</u> <u>8E-9</u> | <u>5E-4</u> - | <u>5E-3</u> - |
| 43 | <u>Technetium-98</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>1E+3</u> - | <u>2E+3</u> <u>3E+2</u> | <u>7E-7</u> <u>1E-7</u> | <u>2E-9</u> <u>4E-10</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| 43 | <u>Technetium-99m</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>8E+4</u> - | <u>2E+5</u> <u>2E+5</u> | <u>6E-5</u> <u>1E-4</u> | <u>2E-7</u> <u>3E-7</u> | <u>1E-3</u> - | <u>1E-2</u> - |
| 43 | <u>Technetium-99</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>4E+3</u> - - | <u>5E+3</u> St wall <u>(6E+3)</u> <u>7E+2</u> | <u>2E-6</u> - <u>3E-7</u> | - <u>8E-9</u> <u>9E-10</u> | - - - | <u>6E-5</u> - - |
| 43 | <u>Technetium-101²</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>9E+4</u> St wall <u>(1E+5)</u> - | <u>3E+5</u> - <u>4E+5</u> | <u>1E-4</u> - <u>2E-4</u> | <u>5E-7</u> - <u>5E-7</u> | - <u>2E-3</u> - | - <u>2E-2</u> - |
| 43 | <u>Technetium-104²</u> | D, see ^{93m} Tc W, see ^{93m} Tc | <u>2E+4</u> St wall <u>(3E+4)</u> - | <u>7E+4</u> - <u>9E+4</u> | <u>3E-5</u> - <u>4E-5</u> | <u>1E-7</u> - <u>1E-7</u> | - <u>4E-4</u> - | - <u>4E-3</u> - |
| 44 | <u>Ruthenium-94²</u> | D, all compounds except those given for W and Y W, halides Y, oxides and hydroxides | <u>2E+4</u> - - | <u>4E+4</u> <u>6E+4</u> <u>6E+4</u> | <u>2E-5</u> <u>3E-5</u> <u>2E-5</u> | <u>6E-8</u> <u>9E-8</u> <u>8E-8</u> | <u>2E-4</u> - - | <u>2E-3</u> - - |
| 44 | <u>Ruthenium-97</u> | D, see ⁹⁴ Ru W, see ⁹⁴ Ru Y, see ⁹⁴ Ru | <u>8E+3</u> - - | <u>2E+4</u> <u>1E+4</u> <u>1E+4</u> | <u>8E-6</u> <u>5E-6</u> <u>5E-6</u> | <u>3E-8</u> <u>2E-8</u> <u>2E-8</u> | <u>1E-4</u> - - | <u>1E-3</u> - - |

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|----|---------------------------------|---|-----------------|-------------|-------------|--------------|-------------|-------------|
| 44 | <u>Ruthenium-103</u> | D, see ⁹⁴ Ru | <u>2E+3</u> | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | W, see ⁹⁴ Ru | - | <u>1E+3</u> | <u>4E-7</u> | <u>1E-9</u> | - | - |
| | | Y, see ⁹⁴ Ru | - | <u>6E+2</u> | <u>3E-7</u> | <u>9E-10</u> | - | - |
| 44 | <u>Ruthenium-105</u> | D, see ⁹⁴ Ru | <u>5E+3</u> | <u>1E+4</u> | <u>6E-6</u> | <u>2E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | W, see ⁹⁴ Ru | - | <u>1E+4</u> | <u>6E-6</u> | <u>2E-8</u> | - | - |
| | | Y, see ⁹⁴ Ru | - | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | - | - |
| 44 | <u>Ruthenium-106</u> | D, see ⁹⁴ Ru | <u>2E+2</u> | <u>9E+1</u> | <u>4E-8</u> | <u>1E-10</u> | - | - |
| | | | <u>LLI wall</u> | - | - | - | <u>3E-6</u> | <u>3E-5</u> |
| | | W, see ⁹⁴ Ru | <u>(2E+2)</u> | <u>5E+1</u> | <u>2E-8</u> | <u>8E-11</u> | - | - |
| | | Y, see ⁹⁴ Ru | - | <u>1E+1</u> | <u>5E-9</u> | <u>2E-11</u> | - | - |
| 45 | <u>Rhodium-99m</u> | D, all compounds except those given for W and Y | <u>2E+4</u> | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| | | W, halides | - | <u>8E+4</u> | <u>3E-5</u> | <u>1E-7</u> | - | - |
| | | Y, oxides and hydroxides | - | <u>7E+4</u> | <u>3E-5</u> | <u>9E-8</u> | - | - |
| 45 | <u>Rhodium-99</u> | D, see ^{99m} Rh | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | W, see ^{99m} Rh | - | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | - | - |
| 45 | <u>Rhodium-100</u> | D, see ^{99m} Rh | <u>2E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | W, see ^{99m} Rh | - | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>4E+3</u> | <u>2E-6</u> | <u>5E-9</u> | - | - |
| 45 | <u>Rhodium-101m</u> | D, see ^{99m} Rh | <u>6E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>8E-5</u> | <u>8E-4</u> |
| | | W, see ^{99m} Rh | - | <u>8E+3</u> | <u>4E-6</u> | <u>1E-8</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>8E+3</u> | <u>3E-6</u> | <u>1E-8</u> | - | - |
| 45 | <u>Rhodium-101</u> | D, see ^{99m} Rh | <u>2E+3</u> | <u>5E+2</u> | <u>2E-7</u> | <u>7E-10</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | W, see ^{99m} Rh | - | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>2E+2</u> | <u>6E-8</u> | <u>2E-10</u> | - | - |
| 45 | <u>Rhodium-102m</u> | D, see ^{99m} Rh | <u>1E+3</u> | <u>5E+2</u> | <u>2E-7</u> | <u>7E-10</u> | - | - |
| | | | <u>LLI wall</u> | - | - | - | <u>2E-5</u> | <u>2E-4</u> |
| | | W, see ^{99m} Rh | <u>(1E+3)</u> | <u>4E+2</u> | <u>2E-7</u> | <u>5E-10</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>1E+2</u> | <u>5E-8</u> | <u>2E-10</u> | - | - |
| 45 | <u>Rhodium-102</u> | D, see ^{99m} Rh | <u>6E+2</u> | <u>9E+1</u> | <u>4E-8</u> | <u>1E-10</u> | <u>8E-6</u> | <u>8E-5</u> |
| | | W, see ^{99m} Rh | - | <u>2E+2</u> | <u>7E-8</u> | <u>2E-10</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>6E+1</u> | <u>2E-8</u> | <u>8E-11</u> | - | - |
| 45 | <u>Rhodium-103m²</u> | D, see ^{99m} Rh | <u>4E+5</u> | <u>1E+6</u> | <u>5E-4</u> | <u>2E-6</u> | <u>6E-3</u> | <u>6E-2</u> |
| | | W, see ^{99m} Rh | - | <u>1E+6</u> | <u>5E-4</u> | <u>2E-6</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>1E+6</u> | <u>5E-4</u> | <u>2E-6</u> | - | - |
| 45 | <u>Rhodium-105</u> | D, see ^{99m} Rh | <u>4E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | - | - |
| | | | <u>LLI wall</u> | - | - | - | <u>5E-5</u> | <u>5E-4</u> |
| | | W, see ^{99m} Rh | <u>(4E+3)</u> | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>6E+3</u> | <u>2E-6</u> | <u>8E-9</u> | - | - |
| 45 | <u>Rhodium-106m</u> | D, see ^{99m} Rh | <u>8E+3</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | W, see ^{99m} Rh | - | <u>4E+4</u> | <u>2E-5</u> | <u>5E-8</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>4E+4</u> | <u>1E-5</u> | <u>5E-8</u> | - | - |
| 45 | <u>Rhodium-107²</u> | D, see ^{99m} Rh | <u>7E+4</u> | <u>2E+5</u> | <u>1E-4</u> | <u>3E-7</u> | - | - |
| | | | <u>St wall</u> | - | - | - | <u>1E-3</u> | <u>1E-2</u> |
| | | W, see ^{99m} Rh | <u>(9E+4)</u> | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | - | - |
| | | Y, see ^{99m} Rh | - | <u>3E+5</u> | <u>1E-4</u> | <u>3E-7</u> | - | - |
| 46 | <u>Palladium-100</u> | D, all compounds except those given for W and Y | <u>1E+3</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | W, nitrates | - | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | - | - |
| | | Y, oxides and hydroxides | - | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - | - |
| 46 | <u>Palladium-101</u> | D, see ¹⁰⁰ Pd | <u>1E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>5E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| | | W, see ¹⁰⁰ Pd | - | <u>3E+4</u> | <u>1E-5</u> | <u>5E-8</u> | - | - |
| | | Y, see ¹⁰⁰ Pd | - | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | - | - |
| 46 | <u>Palladium-103</u> | D, see ¹⁰⁰ Pd | <u>6E+3</u> | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | - | - |

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|----|--------------------------------|---|----------------------------------|---------------------------------|-------------|--------------|-------------|-------------|-------------|
| | | | <u>LLI wall</u> <u>(7E+3)</u> | - | - | - | - | <u>1E-4</u> | <u>1E-3</u> |
| | | W, see ¹⁰⁰ Pd | - | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - | - |
| | | Y, see ¹⁰⁰ Pd | - | <u>4E+3</u> | <u>1E-6</u> | <u>5E-9</u> | - | - | - |
| 46 | <u>Palladium-107</u> | D, see ¹⁰⁰ Pd | <u>3E+4</u> | <u>2E+4</u> | <u>9E-6</u> | - | - | - | - |
| | | | <u>LLI wall</u> <u>(4E+4)</u> | <u>Kidneys</u> <u>(2E+4)</u> | - | <u>3E-8</u> | <u>5E-4</u> | <u>5E-3</u> | - |
| | | W, see ¹⁰⁰ Pd | - | <u>7E+3</u> | <u>3E-6</u> | <u>1E-8</u> | - | - | - |
| | | Y, see ¹⁰⁰ Pd | - | <u>4E+2</u> | <u>2E-7</u> | <u>6E-10</u> | - | - | - |
| 46 | <u>Palladium-109</u> | D, see ¹⁰⁰ Pd | <u>2E+3</u> | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | <u>3E-5</u> | <u>3E-4</u> | - |
| | | W, see ¹⁰⁰ Pd | - | <u>5E+3</u> | <u>2E-6</u> | <u>8E-9</u> | - | - | - |
| | | Y, see ¹⁰⁰ Pd | - | <u>5E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - | - |
| 47 | <u>Silver-102²</u> | D, all compounds except those given for W and Y | <u>5E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>2E-7</u> | - | - | - |
| | | | <u>St wall</u> <u>(6E+4)</u> | - | - | - | <u>9E-4</u> | <u>9E-3</u> | - |
| | | W, nitrates and sulfides | - | <u>2E+5</u> | <u>9E-5</u> | <u>3E-7</u> | - | - | - |
| | | Y, oxides and hydroxides | - | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - | - |
| 47 | <u>Silver-103²</u> | D, see ¹⁰² Ag | <u>4E+4</u> | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | <u>5E-4</u> | <u>5E-3</u> | - |
| | | W, see ¹⁰² Ag | - | <u>1E+5</u> | <u>-5</u> | <u>2E-7</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - | - |
| 47 | <u>Silver-104m²</u> | D, see ¹⁰² Ag | <u>3E+4</u> | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | <u>4E-4</u> | <u>4E-3</u> | - |
| | | W, see ¹⁰² Ag | - | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - | - |
| 47 | <u>Silver-104²</u> | D, see ¹⁰² Ag | <u>2E+4</u> | <u>7E+4</u> | <u>3E-5</u> | <u>1E-7</u> | <u>3E-4</u> | <u>3E-3</u> | - |
| | | W, see ¹⁰² Ag | - | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - | - |
| 47 | <u>Silver-105</u> | D, see ¹⁰² Ag | <u>3E+3</u> | <u>1E+3</u> | <u>4E-7</u> | <u>1E-9</u> | <u>4E-5</u> | <u>4E-4</u> | - |
| | | W, see ¹⁰² Ag | - | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | - | - | - |
| 47 | <u>Silver-106m</u> | D, see ¹⁰² Ag | <u>8E+2</u> | <u>7E+2</u> | <u>3E-7</u> | <u>1E-9</u> | <u>1E-5</u> | <u>1E-4</u> | - |
| | | W, see ¹⁰² Ag | - | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | - | - | - |
| 47 | <u>Silver-106²</u> | D, see ¹⁰² Ag | <u>6E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - | - |
| | | | <u>St. wall</u> <u>(6E+4)</u> | - | - | - | <u>9E-4</u> | <u>9E-3</u> | - |
| | | W, see ¹⁰² Ag | - | <u>2E+5</u> | <u>9E-5</u> | <u>3E-7</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - | - |
| 47 | <u>Silver-108m</u> | D, see ¹⁰² Ag | <u>6E+2</u> | <u>2E+2</u> | <u>8E-8</u> | <u>3E-10</u> | <u>9E-6</u> | <u>9E-5</u> | - |
| | | W, see ¹⁰² Ag | - | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>2E+1</u> | <u>1E-8</u> | <u>3E-11</u> | - | - | - |
| 47 | <u>Silver-110m</u> | D, see ¹⁰² Ag | <u>5E+2</u> | <u>1E+2</u> | <u>5E-8</u> | <u>2E-10</u> | <u>6E-6</u> | <u>6E-5</u> | - |
| | | W, see ¹⁰² Ag | - | <u>2E+2</u> | <u>8E-8</u> | <u>3E-10</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>9E+1</u> | <u>-8</u> | <u>1E-10</u> | - | - | - |
| 47 | <u>Silver-111</u> | D, see ¹⁰² Ag | <u>9E+2</u> | <u>2E+3</u> | <u>6E-7</u> | - | - | - | - |
| | | | <u>LLI wall</u> <u>(1E+3)</u> | <u>Liver</u> <u>(2E+3)</u> | - | <u>2E-9</u> | <u>2E-5</u> | <u>2E-4</u> | - |
| | | W, see ¹⁰² Ag | - | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | - | - | - |
| 47 | <u>Silver-112</u> | D, see ¹⁰² Ag | <u>3E+3</u> | <u>8E+3</u> | <u>3E-6</u> | <u>1E-8</u> | <u>4E-5</u> | <u>4E-4</u> | - |
| | | W, see ¹⁰² Ag | - | <u>1E+4</u> | <u>4E-6</u> | <u>1E-8</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | - | - | - |
| 47 | <u>Silver-115²</u> | D, see ¹⁰² Ag | <u>3E+4</u> | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | - | - | - |
| | | | <u>St wall</u> <u>(3E+4)</u> | - | - | - | <u>4E-4</u> | <u>4E-3</u> | - |
| | | W, see ¹⁰² Ag | - | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | - | - | - |
| | | Y, see ¹⁰² Ag | - | <u>8E+4</u> | <u>3E-5</u> | <u>1E-7</u> | - | - | - |
| 48 | <u>Cadmium-104²</u> | D, all compounds except those given for W and Y W, sulfides, halides, | <u>2E+4</u> | <u>7E+4</u> | <u>3E-5</u> | <u>9E-8</u> | <u>3E-4</u> | <u>3E-3</u> | - |

| | | | | | | | | |
|----|--|---|---------------|----------------|--------------|--------------|-------------|-------------|
| | | and nitrates | - | 1E+5 | 5E-5 | 2E-7 | - | - |
| | | <u>Y, oxides and hydroxides</u> | - | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - |
| 48 | <u>Cadmium-107</u> | D, see ¹⁰⁴ Cd | <u>2E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| | | W, see ¹⁰⁴ Cd | - | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>5E+4</u> | <u>2E-5</u> | <u>7E-8</u> | - | - |
| 48 | <u>Cadmium-109</u> | D, see ¹⁰⁴ Cd | <u>3E+2</u> | <u>4E+1</u> | <u>1E-8</u> | - | - | - |
| | | <u>Kidneys</u> | <u>(4E+2)</u> | <u>(5E+1)</u> | - | <u>7E-11</u> | <u>6E-6</u> | <u>6E-5</u> |
| | | W, see ¹⁰⁴ Cd | - | <u>1E+2</u> | <u>5E-8</u> | - | - | - |
| | | | - | <u>Kidneys</u> | - | - | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>(1E+2)</u> | - | <u>2E-10</u> | - | - |
| | | | - | <u>1E+2</u> | <u>5E-8</u> | <u>2E-10</u> | - | - |
| 48 | <u>Cadmium-113m</u> | D, see ¹⁰⁴ Cd | <u>2E+1</u> | <u>2E+0</u> | <u>1E-9</u> | - | - | - |
| | | <u>Kidneys</u> | <u>(4E+1)</u> | <u>(4E+0)</u> | - | <u>5E-12</u> | <u>5E-7</u> | <u>5E-6</u> |
| | | W, see ¹⁰⁴ Cd | - | <u>8E+0</u> | <u>4E-9</u> | - | - | - |
| | | | - | <u>Kidneys</u> | - | - | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>(1E+1)</u> | - | <u>2E-11</u> | - | - |
| | | | - | <u>1E+1</u> | <u>5E-9</u> | <u>2E-11</u> | - | - |
| 48 | <u>Cadmium-113</u> | D, see ¹⁰⁴ Cd | <u>2E+1</u> | <u>2E+0</u> | <u>9E-10</u> | - | - | - |
| | | <u>Kidneys</u> | <u>(3E+1)</u> | <u>(3E+0)</u> | - | <u>5E-12</u> | <u>4E-7</u> | <u>4E-6</u> |
| | | W, see ¹⁰⁴ Cd | - | <u>8E+0</u> | <u>3E-9</u> | - | - | - |
| | | | - | <u>Kidneys</u> | - | - | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>(1E+1)</u> | - | <u>2E-11</u> | - | - |
| | | | - | <u>1E+1</u> | <u>6E-9</u> | <u>2E-11</u> | - | - |
| 48 | <u>Cadmium-115m</u> | D, see ¹⁰⁴ Cd | <u>3E+2</u> | <u>5E+1</u> | <u>2E-8</u> | - | <u>4E-6</u> | <u>4E-5</u> |
| | | | - | <u>Kidneys</u> | - | - | - | - |
| | | W, see ¹⁰⁴ Cd | - | <u>(8E+1)</u> | - | <u>1E-10</u> | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>1E+2</u> | <u>5E-8</u> | <u>2E-10</u> | - | - |
| | | | - | <u>1E+2</u> | <u>6E-8</u> | <u>2E-10</u> | - | - |
| 48 | <u>Cadmium-115</u> | D, see ¹⁰⁴ Cd | <u>9E+2</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - | - |
| | | <u>LLI wall</u> | <u>(1E+3)</u> | - | - | - | <u>1E-5</u> | <u>1E-4</u> |
| | | W, see ¹⁰⁴ Cd | - | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - | - |
| 48 | <u>Cadmium-117m</u> | D, see ¹⁰⁴ Cd | <u>5E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>6E-5</u> | <u>6E-4</u> |
| | | W, see ¹⁰⁴ Cd | - | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>1E+4</u> | <u>6E-6</u> | <u>2E-8</u> | - | - |
| 48 | <u>Cadmium-117</u> | D, see ¹⁰⁴ Cd | <u>5E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>6E-5</u> | <u>6E-4</u> |
| | | W, see ¹⁰⁴ Cd | - | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | - | - |
| | | Y, see ¹⁰⁴ Cd | - | <u>1E+4</u> | <u>6E-6</u> | <u>2E-8</u> | - | - |
| 49 | <u>Indium-109</u> | D, all compounds except those given for W | <u>2E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| | | <u>W, oxides, hydroxides, halides, and nitrates</u> | - | <u>6E+4</u> | <u>E-5</u> | <u>9E-8</u> | - | - |
| 49 | <u>Indium-110²</u> <u>(69.1 min)</u> | D, see ¹⁰⁹ In | <u>2E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| | | W, see ¹⁰⁹ In | - | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | - | - |
| 49 | <u>Indium-110</u> <u>(4.9 h)</u> | D, see ¹⁰⁹ In | <u>5E+3</u> | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | W, see ¹⁰⁹ In | - | <u>2E+4</u> | <u>-6</u> | <u>3E-8</u> | - | - |
| 49 | <u>Indium-111</u> | D, see ¹⁰⁹ In | <u>4E+3</u> | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | <u>6E-5</u> | <u>6E-4</u> |
| | | W, see ¹⁰⁹ In | - | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | - | - |
| 49 | <u>Indium-112²</u> | D, see ¹⁰⁹ In | <u>2E+5</u> | <u>6E+5</u> | <u>3E-4</u> | <u>9E-7</u> | <u>2E-3</u> | <u>2E-2</u> |
| | | W, see ¹⁰⁹ In | - | <u>7E+5</u> | <u>3E-4</u> | <u>1E-6</u> | - | - |
| 49 | <u>Indium-113m²</u> | D, see ¹⁰⁹ In | <u>5E+4</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | <u>7E-4</u> | <u>7E-3</u> |
| | | W, see ¹⁰⁹ In | - | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - |
| 49 | <u>Indium-114m</u> | D, see ¹⁰⁹ In | <u>3E+2</u> | <u>6E+1</u> | <u>3E-8</u> | <u>9E-11</u> | - | - |
| | | <u>LLI wall</u> | <u>(4E+2)</u> | - | - | - | <u>5E-6</u> | <u>5E-5</u> |

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| | | | | | | | | |
|----|--------------------------------|--|--|---|-----------------------------|------------------------------|------------------|------------------|
| | | <u>W, see ¹⁰⁹In</u> | = | <u>1E+2</u> | <u>4E-8</u> | <u>1E-10</u> | = | = |
| 49 | <u>Indium-115m</u> | <u>D, see ¹⁰⁹In</u> <u>W, see ¹⁰⁹In</u> | <u>1E+4</u> = | <u>4E+4</u> <u>5E+4</u> | <u>2E-5</u> <u>2E-5</u> | <u>6E-8</u> <u>7E-8</u> | <u>2E-4</u> = | <u>2E-3</u> = |
| 49 | <u>Indium-115</u> | <u>D, see ¹⁰⁹In</u> <u>W, see ¹⁰⁹In</u> | <u>4E+1</u> = | <u>1E+0</u> <u>5E+0</u> | <u>6E-10</u> <u>2E-9</u> | <u>2E-12</u> <u>8E-12</u> | <u>5E-7</u> = | <u>5E-6</u> = |
| 49 | <u>Indium-116m²</u> | <u>D, see ¹⁰⁹In</u> <u>W, see ¹⁰⁹In</u> | <u>2E+4</u> = | <u>8E+4</u> <u>1E+5</u> | <u>3E-5</u> <u>5E-5</u> | <u>1E-7</u> <u>2E-7</u> | <u>3E-4</u> = | <u>3E-3</u> = |
| 49 | <u>Indium-117m²</u> | <u>D, see ¹⁰⁹In</u> <u>W, see ¹⁰⁹In</u> | <u>1E+4</u> = | <u>3E+4</u> <u>4E+4</u> | <u>1E-5</u> <u>2E-5</u> | <u>5E-8</u> <u>6E-8</u> | <u>2E-4</u> = | <u>2E-3</u> = |
| 49 | <u>Indium-117²</u> | <u>D, see ¹⁰⁹In</u> <u>W, see ¹⁰⁹In</u> | <u>6E+4</u> = | <u>2E+5</u> <u>2E+5</u> | <u>7E-5</u> <u>9E-5</u> | <u>2E-7</u> <u>3E-7</u> | <u>8E-4</u> = | <u>8E-3</u> = |
| 49 | <u>Indium-119m²</u> | <u>D, see ¹⁰⁹In</u> <u>W, see ¹⁰⁹In</u> | <u>4E+4</u> <u>St wall</u> <u>(5E+4)</u> = | <u>1E+5</u> = | <u>5E-5</u> = | <u>2E-7</u> = | <u>7E-4</u> = | <u>7E-3</u> = |
| 50 | <u>Tin-110</u> | <u>D, all compounds except</u> <u>those given for W</u> <u>W, sulfides, oxides,</u> <u>hydroxides, halides,</u> <u>nitrates, and stannic</u> <u>phosphate</u> | <u>4E+3</u> = | <u>1E+4</u> <u>1E+4</u> | <u>5E-6</u> <u>5E-6</u> | <u>2E-8</u> <u>2E-8</u> | <u>5E-5</u> = | <u>5E-4</u> = |
| 50 | <u>Tin-111²</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>7E+4</u> = | <u>2E+5</u> <u>3E+5</u> | <u>9E-5</u> <u>1E-4</u> | <u>3E-7</u> <u>4E-7</u> | <u>1E-3</u> = | <u>1E-2</u> = |
| 50 | <u>Tin-113</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>2E+3</u> <u>LLI wall</u> <u>(2E+3)</u> = | <u>1E+3</u> = | <u>5E-7</u> <u>2E-7</u> | <u>2E-9</u> <u>8E-10</u> | <u>3E-5</u> = | <u>3E-4</u> = |
| 50 | <u>Tin-117m</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>2E+3</u> <u>LLI wall</u> <u>(2E+3)</u> = | <u>1E+3</u> <u>Bone surf</u> <u>(2E+3)</u> <u>1E+3</u> | <u>5E-7</u> = | <u>3E-9</u> <u>2E-9</u> | <u>3E-5</u> = | <u>3E-4</u> = |
| 50 | <u>Tin-119m</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>3E+3</u> <u>LLI wall</u> <u>(4E+3)</u> = | <u>2E+3</u> = | <u>1E-6</u> <u>4E-7</u> | <u>3E-9</u> <u>1E-9</u> | <u>6E-5</u> = | <u>6E-4</u> = |
| 50 | <u>Tin-121m</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>3E+3</u> <u>LLI wall</u> <u>(4E+3)</u> = | <u>9E+2</u> = | <u>4E-7</u> <u>2E-7</u> | <u>1E-9</u> <u>8E-10</u> | <u>5E-5</u> = | <u>5E-4</u> = |
| 50 | <u>Tin-121</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>6E+3</u> <u>LLI wall</u> <u>(6E+3)</u> = | <u>2E+4</u> = | <u>6E-6</u> <u>5E-6</u> | <u>2E-8</u> <u>2E-8</u> | <u>8E-5</u> = | <u>8E-4</u> = |
| 50 | <u>Tin-123m²</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>5E+4</u> = | <u>1E+5</u> <u>1E+5</u> | <u>5E-5</u> <u>6E-5</u> | <u>2E-7</u> <u>2E-7</u> | <u>7E-4</u> = | <u>7E-3</u> = |
| 50 | <u>Tin-123</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>5E+2</u> <u>LLI wall</u> <u>(6E+2)</u> = | <u>6E+2</u> = | <u>3E-7</u> <u>7E-8</u> | <u>9E-10</u> <u>2E-10</u> | <u>9E-6</u> = | <u>9E-5</u> = |
| 50 | <u>Tin-125</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>4E+2</u> <u>LLI wall</u> <u>(5E+2)</u> = | <u>9E+2</u> = | <u>4E-7</u> <u>1E-7</u> | <u>1E-9</u> <u>5E-10</u> | <u>6E-6</u> = | <u>6E-5</u> = |
| 50 | <u>Tin-126</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>3E+2</u> = | <u>6E+1</u> <u>7E+1</u> | <u>2E-8</u> <u>3E-8</u> | <u>8E-11</u> <u>9E-11</u> | <u>4E-6</u> = | <u>4E-5</u> = |
| 50 | <u>Tin-127</u> | <u>D, see ¹¹⁰Sn</u> <u>W, see ¹¹⁰Sn</u> | <u>7E+3</u> = | <u>2E+4</u> <u>2E+4</u> | <u>8E-6</u> <u>8E-6</u> | <u>3E-8</u> <u>3E-8</u> | <u>9E-5</u> = | <u>9E-4</u> = |

| | | | | | | | | |
|----|--|--|--|----------------------------|----------------------------|-----------------------------|------------------|------------------|
| 50 | <u>Tin-128²</u> | D, see ¹¹⁰ Sn W, see ¹¹⁰ Sn | <u>9E+3</u> - | <u>3E+4</u> <u>4E+4</u> | <u>1E-5</u> <u>1E-5</u> | <u>4E-8</u> <u>5E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 51 | <u>Antimony-115²</u> | D, all compounds except those given for W W, oxides, hydroxides, halides, sulfides, sulfates, and nitrates | <u>8E+4</u> - | <u>2E+5</u> <u>3E+5</u> | <u>1E-4</u> <u>1E-4</u> | <u>3E-7</u> <u>4E-7</u> | <u>1E-3</u> - | <u>1E-2</u> - |
| 51 | <u>Antimony-116m²</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>2E+4</u> - | <u>7E+4</u> <u>1E+5</u> | <u>3E-5</u> <u>6E-5</u> | <u>1E-7</u> <u>2E-7</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 51 | <u>Antimony-116²</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>7E+4</u> St wall (9E+4) - | <u>3E+5</u> - | <u>1E-4</u> <u>1E-4</u> | <u>4E-7</u> - | <u>1E-3</u> - | <u>1E-2</u> - |
| 51 | <u>Antimony-117</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>7E+4</u> - | <u>2E+5</u> <u>3E+5</u> | <u>9E-5</u> <u>1E-4</u> | <u>3E-7</u> <u>4E-7</u> | <u>9E-4</u> - | <u>9E-3</u> - |
| 51 | <u>Antimony-118m</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>6E+3</u> <u>5E+3</u> | <u>2E+4</u> <u>2E+4</u> | <u>8E-6</u> <u>9E-6</u> | <u>3E-8</u> <u>3E-8</u> | <u>7E-5</u> - | <u>7E-4</u> - |
| 51 | <u>Antimony-119</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>2E+4</u> <u>2E+4</u> | <u>5E+4</u> <u>3E+4</u> | <u>2E-5</u> <u>1E-5</u> | <u>6E-8</u> <u>4E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 51 | <u>Antimony-120²</u> <u>(16 min)</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>1E+5</u> St wall (2E+5) - | <u>4E+5</u> - | <u>2E-4</u> <u>2E-4</u> | <u>6E-7</u> - | <u>2E-3</u> - | <u>2E-2</u> - |
| 51 | <u>Antimony-120</u> <u>(5.76 d)</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>1E+3</u> <u>9E+2</u> | <u>2E+3</u> <u>1E+3</u> | <u>9E-7</u> <u>5E-7</u> | <u>3E-9</u> <u>2E-9</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| 51 | <u>Antimony-122</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>8E+2</u> LLI wall (8E+2) <u>7E+2</u> | <u>2E+3</u> - | <u>1E-6</u> <u>4E-7</u> | <u>3E-9</u> - | <u>1E-5</u> - | <u>1E-4</u> - |
| 51 | <u>Antimony-124m²</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>3E+5</u> <u>2E+5</u> | <u>8E+5</u> <u>6E+5</u> | <u>4E-4</u> <u>2E-4</u> | <u>1E-6</u> <u>8E-7</u> | <u>3E-3</u> - | <u>3E-2</u> - |
| 51 | <u>Antimony-124</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>6E+2</u> <u>5E+2</u> | <u>9E+2</u> <u>2E+2</u> | <u>4E-7</u> <u>1E-7</u> | <u>1E-9</u> <u>3E-10</u> | <u>7E-6</u> - | <u>7E-5</u> - |
| 51 | <u>Antimony-125</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>2E+3</u> - | <u>2E+3</u> <u>5E+2</u> | <u>1E-6</u> <u>2E-7</u> | <u>3E-9</u> <u>7E-10</u> | <u>3E-5</u> - | <u>3E-4</u> - |
| 51 | <u>Antimony-126m²</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>5E+4</u> St wall (7E+4) - | <u>2E+5</u> - | <u>8E-5</u> <u>8E-5</u> | <u>3E-7</u> <u>3E-7</u> | <u>9E-4</u> - | <u>9E-3</u> - |
| 51 | <u>Antimony-126</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>6E+2</u> <u>5E+2</u> | <u>1E+3</u> <u>5E+2</u> | <u>5E-7</u> <u>2E-7</u> | <u>2E-9</u> <u>7E-10</u> | <u>7E-6</u> - | <u>7E-5</u> - |
| 51 | <u>Antimony-127</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>8E+2</u> LLI wall (8E+2) <u>7E+2</u> | <u>2E+3</u> - | <u>9E-7</u> <u>4E-7</u> | <u>3E-9</u> - | <u>1E-5</u> - | <u>1E-4</u> - |
| 51 | <u>Antimony-128²</u> <u>(10.4 min)</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>8E+4</u> St wall (1E+5) - | <u>4E+5</u> - | <u>2E-4</u> <u>2E-4</u> | <u>5E-7</u> <u>6E-7</u> | <u>1E-3</u> - | <u>1E-2</u> - |
| 51 | <u>Antimony-128</u> <u>(9.01 h)</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>1E+3</u> - | <u>4E+3</u> <u>3E+3</u> | <u>2E-6</u> <u>1E-6</u> | <u>6E-9</u> <u>5E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 51 | <u>Antimony-129</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>3E+3</u> - | <u>9E+3</u> <u>9E+3</u> | <u>4E-6</u> <u>4E-6</u> | <u>1E-8</u> <u>1E-8</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 51 | <u>Antimony-130²</u> | D, see ¹¹⁵ Sb W, see ¹¹⁵ Sb | <u>2E+4</u> - | <u>6E+4</u> <u>8E+4</u> | <u>3E-5</u> <u>3E-5</u> | <u>9E-8</u> <u>1E-7</u> | <u>3E-4</u> - | <u>3E-3</u> - |

PERMANENT

| | | | | | | | | |
|----|-----------------------------------|---|------------------------------------|------------------------------------|-------------|------------------------------|-------------|-------------|
| 51 | <u>Antimony-131²</u> | D, see <u>¹¹⁵Sb</u> | <u>1E+4</u> Thyroid (2E+4) | <u>2E+4</u> Thyroid (4E+4) | <u>1E-5</u> | - | - | - |
| | | W, see <u>¹¹⁵Sb</u> | - | <u>2E+4</u> Thyroid (4E+4) | <u>1E-5</u> | <u>6E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 52 | <u>Tellurium-116</u> | D, all compounds except those given for W | <u>8E+3</u> | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | W, oxides, hydroxides, and nitrates | - | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | - | - |
| 52 | <u>Tellurium-121m</u> | D, see <u>¹¹⁶Te</u> | <u>5E+2</u> Bone surf (7E+2) | <u>2E+2</u> Bone surf (4E+2) | <u>8E-8</u> | - | - | - |
| | | W, see <u>¹¹⁶Te</u> | - | <u>4E+2</u> | <u>2E-7</u> | <u>5E-10</u> <u>6E-10</u> | <u>1E-5</u> | <u>1E-4</u> |
| 52 | <u>Tellurium-121</u> | D, see <u>¹¹⁶Te</u> | <u>3E+3</u> | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | <u>4E-5</u> | <u>4E-4</u> |
| | | W, see <u>¹¹⁶Te</u> | - | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| 52 | <u>Tellurium-123m</u> | D, see <u>¹¹⁶Te</u> | <u>6E+2</u> Bone surf (1E+3) | <u>2E+2</u> Bone surf (5E+2) | <u>9E-8</u> | - | - | - |
| | | W, see <u>¹¹⁶Te</u> | - | <u>5E+2</u> | <u>2E-7</u> | <u>8E-10</u> <u>8E-10</u> | <u>1E-5</u> | <u>1E-4</u> |
| 52 | <u>Tellurium-123</u> | D, see <u>¹¹⁶Te</u> | <u>5E+2</u> Bone surf (1E+3) | <u>2E+2</u> Bone surf (5E+2) | <u>8E-8</u> | - | - | - |
| | | W, see <u>¹¹⁶Te</u> | - | <u>4E+2</u> Bone surf (1E+3) | <u>2E-7</u> | <u>7E-10</u> | <u>2E-5</u> | <u>2E-4</u> |
| 52 | <u>Tellurium-125m</u> | D, see <u>¹¹⁶Te</u> | <u>1E+3</u> Bone surf (1E+3) | <u>4E+2</u> Bone surf (1E+3) | <u>2E-7</u> | - | - | - |
| | | W, see <u>¹¹⁶Te</u> | - | <u>7E+2</u> | <u>3E-7</u> | <u>1E-9</u> <u>1E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 52 | <u>Tellurium-127m</u> | D, see <u>¹¹⁶Te</u> | <u>6E+2</u> | <u>3E+2</u> Bone surf (4E+2) | <u>1E-7</u> | - | <u>9E-6</u> | <u>9E-5</u> |
| | | W, see <u>¹¹⁶Te</u> | - | <u>3E+2</u> | <u>1E-7</u> | <u>6E-10</u> <u>4E-10</u> | - | - |
| 52 | <u>Tellurium-127</u> | D, see <u>¹¹⁶Te</u> | <u>7E+3</u> | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | W, see <u>¹¹⁶Te</u> | - | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | - | - |
| 52 | <u>Tellurium-129m</u> | D, see <u>¹¹⁶Te</u> | <u>5E+2</u> | <u>6E+2</u> | <u>3E-7</u> | <u>9E-10</u> | <u>7E-6</u> | <u>7E-5</u> |
| | | W, see <u>¹¹⁶Te</u> | - | <u>2E+2</u> | <u>1E-7</u> | <u>3E-10</u> | - | - |
| 52 | <u>Tellurium-129²</u> | D, see <u>¹¹⁶Te</u> | <u>3E+4</u> | <u>6E+4</u> | <u>3E-5</u> | <u>9E-8</u> | <u>4E-4</u> | <u>4E-3</u> |
| | | W, see <u>¹¹⁶Te</u> | - | <u>7E+4</u> | <u>3E-5</u> | <u>1E-7</u> | - | - |
| 52 | <u>Tellurium-131m</u> | D, see <u>¹¹⁶Te</u> | <u>3E+2</u> Thyroid (6E+2) | <u>4E+2</u> Thyroid (1E+3) | <u>2E-7</u> | - | - | - |
| | | W, see <u>¹¹⁶Te</u> | - | <u>4E+2</u> Thyroid (9E+2) | <u>2E-7</u> | <u>2E-9</u> | <u>8E-6</u> | <u>8E-5</u> |
| 52 | <u>Tellurium-131²</u> | D, see <u>¹¹⁶Te</u> | <u>3E+3</u> Thyroid (6E+3) | <u>5E+3</u> Thyroid (1E+4) | <u>2E-6</u> | - | - | - |
| | | W, see <u>¹¹⁶Te</u> | - | <u>5E+3</u> Thyroid (1E+4) | <u>2E-6</u> | <u>2E-8</u> | <u>8E-5</u> | <u>8E-4</u> |
| 52 | <u>Tellurium-132</u> | D, see <u>¹¹⁶Te</u> | <u>2E+2</u> Thyroid (7E+2) | <u>2E+2</u> Thyroid (8E+2) | <u>9E-8</u> | - | - | - |
| | | W, see <u>¹¹⁶Te</u> | - | <u>2E+2</u> Thyroid (6E+2) | <u>9E-8</u> | <u>1E-9</u> | <u>9E-6</u> | <u>9E-5</u> |
| 52 | <u>Tellurium-133m²</u> | D, see <u>¹¹⁶Te</u> | <u>3E+3</u> Thyroid (6E+3) | <u>5E+3</u> Thyroid (1E+4) | <u>2E-6</u> | - | - | - |
| | | | - | | - | <u>2E-8</u> | <u>9E-5</u> | <u>9E-4</u> |

| | | | | | | | |
|-----------|----------------------------------|--------------------------------|--|--|-------------|--------------|----------------------------|
| | <u>W, see ¹¹⁶Te</u> | - | <u>5E+3</u> <u>Thyroid</u> <u>(1E+4)</u> | <u>-6</u> | - | - | - |
| | | - | | | | <u>2E-8</u> | - |
| <u>52</u> | <u>Tellurium-133²</u> | <u>D, see ¹¹⁶Te</u> | <u>1E+4</u> <u>Thyroid</u> <u>(3E+4)</u> | <u>2E+4</u> <u>Thyroid</u> <u>(6E+4)</u> | <u>9E-6</u> | - | - |
| | | <u>W, see ¹¹⁶Te</u> | - | <u>2E+4</u> <u>Thyroid</u> <u>(6E+4)</u> | <u>9E-6</u> | - | - |
| | | | - | | | <u>8E-8</u> | <u>4E-4</u> <u>4E-3</u> |
| <u>52</u> | <u>Tellurium-134²</u> | <u>D, see ¹¹⁶Te</u> | <u>2E+4</u> <u>Thyroid</u> <u>(2E+4)</u> | <u>2E+4</u> <u>Thyroid</u> <u>(5E+4)</u> | <u>1E-5</u> | - | - |
| | | <u>W, see ¹¹⁶Te</u> | - | <u>2E+4</u> <u>Thyroid</u> <u>(5E+4)</u> | <u>E-5</u> | - | - |
| | | | - | | | <u>7E-8</u> | <u>3E-4</u> <u>3E-3</u> |
| <u>53</u> | <u>Iodine-120m²</u> | <u>D, all compounds</u> | <u>1E+4</u> <u>Thyroid</u> <u>(1E+4)</u> | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | - |
| | | | - | - | - | - | <u>2E-4</u> <u>2E-3</u> |
| <u>53</u> | <u>Iodine-120²</u> | <u>D, all compounds</u> | <u>4E+3</u> <u>Thyroid</u> <u>(8E+3)</u> | <u>9E+3</u> <u>Thyroid</u> <u>(1E+4)</u> | <u>4E-6</u> | - | - |
| | | | - | - | - | <u>2E-8</u> | <u>1E-4</u> <u>1E-3</u> |
| <u>53</u> | <u>Iodine-121</u> | <u>D, all compounds</u> | <u>1E+4</u> <u>Thyroid</u> <u>(3E+4)</u> | <u>2E+4</u> <u>Thyroid</u> <u>(5E+4)</u> | <u>8E-6</u> | - | - |
| | | | - | - | - | <u>7E-8</u> | <u>4E-4</u> <u>4E-3</u> |
| <u>53</u> | <u>Iodine-123</u> | <u>D, all compounds</u> | <u>3E+3</u> <u>Thyroid</u> <u>(1E+4)</u> | <u>6E+3</u> <u>Thyroid</u> <u>(2E+4)</u> | <u>3E-6</u> | - | - |
| | | | - | - | - | <u>2E-8</u> | <u>1E-4</u> <u>1E-3</u> |
| <u>53</u> | <u>Iodine-124</u> | <u>D, all compounds</u> | <u>5E+1</u> <u>Thyroid</u> <u>(2E+2)</u> | <u>8E+1</u> <u>Thyroid</u> <u>(3E+2)</u> | <u>3E-8</u> | - | - |
| | | | - | - | - | <u>4E-10</u> | <u>2E-6</u> <u>2E-5</u> |
| <u>53</u> | <u>Iodine-125</u> | <u>D, all compounds</u> | <u>4E+1</u> <u>Thyroid</u> <u>(1E+2)</u> | <u>6E+1</u> <u>Thyroid</u> <u>(2E+2)</u> | <u>3E-8</u> | - | - |
| | | | - | - | - | <u>3E-10</u> | <u>2E-6</u> <u>2E-5</u> |
| <u>53</u> | <u>Iodine-126</u> | <u>D, all compounds</u> | <u>2E+1</u> <u>Thyroid</u> <u>(7E+1)</u> | <u>4E+1</u> <u>Thyroid</u> <u>(1E+2)</u> | <u>1E-8</u> | - | - |
| | | | - | - | - | <u>2E-10</u> | <u>1E-6</u> <u>1E-5</u> |
| <u>53</u> | <u>Iodine-128²</u> | <u>D, all compounds</u> | <u>4E+4</u> <u>St wall</u> <u>(6E+4)</u> | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - |
| | | | - | - | - | - | <u>8E-4</u> <u>8E-3</u> |
| <u>53</u> | <u>Iodine-129</u> | <u>D, all compounds</u> | <u>5E+0</u> <u>Thyroid</u> <u>(2E+1)</u> | <u>9E+0</u> <u>Thyroid</u> <u>(3E+1)</u> | <u>4E-9</u> | - | - |
| | | | - | - | - | <u>4E-11</u> | <u>2E-7</u> <u>2E-6</u> |
| <u>53</u> | <u>Iodine-130</u> | <u>D, all compounds</u> | <u>4E+2</u> <u>Thyroid</u> <u>(1E+3)</u> | <u>7E+2</u> <u>Thyroid</u> <u>(2E+3)</u> | <u>3E-7</u> | - | - |
| | | | - | - | - | <u>3E-9</u> | <u>2E-5</u> <u>2E-4</u> |
| <u>53</u> | <u>Iodine-131</u> | <u>D, all compounds</u> | <u>3E+1</u> <u>Thyroid</u> <u>(9E+1)</u> | <u>5E+1</u> <u>Thyroid</u> <u>(2E+2)</u> | <u>2E-8</u> | - | - |
| | | | - | - | - | <u>2E-10</u> | <u>1E-6</u> <u>1E-5</u> |
| <u>53</u> | <u>Iodine-132m²</u> | <u>D, all compounds</u> | <u>4E+3</u> <u>Thyroid</u> <u>(1E+4)</u> | <u>8E+3</u> <u>Thyroid</u> <u>(2E+4)</u> | <u>4E-6</u> | - | - |
| | | | - | - | - | <u>3E-8</u> | <u>1E-4</u> <u>1E-3</u> |
| <u>53</u> | <u>Iodine-132</u> | <u>D, all compounds</u> | <u>4E+3</u> <u>Thyroid</u> <u>(9E+3)</u> | <u>8E+3</u> <u>Thyroid</u> <u>(1E+4)</u> | <u>3E-6</u> | - | - |
| | | | - | - | - | <u>2E-8</u> | <u>1E-4</u> <u>1E-3</u> |
| <u>53</u> | <u>Iodine-133</u> | <u>D, all compounds</u> | <u>1E+2</u> <u>Thyroid</u> <u>(5E+2)</u> | <u>3E+2</u> <u>Thyroid</u> <u>(9E+2)</u> | <u>1E-7</u> | - | - |
| | | | - | - | - | <u>1E-9</u> | <u>7E-6</u> <u>7E-5</u> |
| <u>53</u> | <u>Iodine-134²</u> | <u>D, all compounds</u> | <u>2E+4</u> <u>Thyroid</u> | <u>5E+4</u> | <u>2E-5</u> | <u>6E-8</u> | - |

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|-----------|--------------------------------|-------------------------------|--|--|-------------|--------------|-------------|-------------|
| | | | <u>(3E+4)</u> | - | - | - | <u>4E-4</u> | <u>4E-3</u> |
| <u>53</u> | <u>Iodine-135</u> | <u>D, all compounds</u> | <u>8E+2</u> <u>Thyroid</u> <u>(3E+3)</u> | <u>2E+3</u> <u>Thyroid</u> <u>(4E+3)</u> | <u>7E-7</u> | - | - | - |
| | | | | | | <u>6E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| <u>54</u> | <u>Xenon-120²</u> | <u>Submersion¹</u> | - | - | <u>1E-5</u> | <u>4E-8</u> | - | - |
| <u>54</u> | <u>Xenon-121²</u> | <u>Submersion¹</u> | - | - | <u>2E-6</u> | <u>1E-8</u> | - | - |
| <u>54</u> | <u>Xenon-122</u> | <u>Submersion¹</u> | - | - | <u>7E-5</u> | <u>3E-7</u> | - | - |
| <u>54</u> | <u>Xenon-123</u> | <u>Submersion¹</u> | - | - | <u>6E-6</u> | <u>3E-8</u> | - | - |
| <u>54</u> | <u>Xenon-125</u> | <u>Submersion¹</u> | - | - | <u>2E-5</u> | <u>7E-8</u> | - | - |
| <u>54</u> | <u>Xenon-127</u> | <u>Submersion¹</u> | - | - | <u>1E-5</u> | <u>6E-8</u> | - | - |
| <u>54</u> | <u>Xenon-129m</u> | <u>Submersion¹</u> | - | - | <u>2E-4</u> | <u>9E-7</u> | - | - |
| <u>54</u> | <u>Xenon-131m</u> | <u>Submersion¹</u> | - | - | <u>4E-4</u> | <u>2E-6</u> | - | - |
| <u>54</u> | <u>Xenon-133m</u> | <u>Submersion¹</u> | - | - | <u>1E-4</u> | <u>6E-7</u> | - | - |
| <u>54</u> | <u>Xenon-133</u> | <u>Submersion¹</u> | - | - | <u>1E-4</u> | <u>5E-7</u> | - | - |
| <u>54</u> | <u>Xenon-135m²</u> | <u>Submersion¹</u> | - | - | <u>9E-6</u> | <u>4E-8</u> | - | - |
| <u>54</u> | <u>Xenon-135</u> | <u>Submersion¹</u> | - | - | <u>1E-5</u> | <u>7E-8</u> | - | - |
| <u>54</u> | <u>Xenon-138²</u> | <u>Submersion¹</u> | - | - | <u>4E-6</u> | <u>2E-8</u> | - | - |
| <u>55</u> | <u>Cesium-125²</u> | <u>D, all compounds</u> | <u>5E+4</u> <u>St wall</u> <u>(9E+4)</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | | | | | | <u>1E-3</u> | <u>1E-2</u> |
| <u>55</u> | <u>Cesium-127</u> | <u>D, all compounds</u> | <u>6E+4</u> | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | <u>9E-4</u> | <u>9E-3</u> |
| <u>55</u> | <u>Cesium-129</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>5E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| <u>55</u> | <u>Cesium-130²</u> | <u>D, all compounds</u> | <u>6E+4</u> <u>St wall</u> <u>(1E+5)</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - |
| | | | | | | | <u>1E-3</u> | <u>1E-2</u> |
| <u>55</u> | <u>Cesium-131</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| <u>55</u> | <u>Cesium-132</u> | <u>D, all compounds</u> | <u>3E+3</u> | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | <u>4E-5</u> | <u>4E-4</u> |
| <u>55</u> | <u>Cesium-134m</u> | <u>D, all compounds</u> | <u>1E+5</u> <u>St wall</u> <u>(1E+5)</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | | | | | | <u>2E-3</u> | <u>2E-2</u> |
| <u>55</u> | <u>Cesium-134</u> | <u>D, all compounds</u> | <u>7E+1</u> | <u>1E+2</u> | <u>4E-8</u> | <u>2E-10</u> | <u>9E-7</u> | <u>9E-6</u> |
| <u>55</u> | <u>Cesium-135m²</u> | <u>D, all compounds</u> | <u>1E+5</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| <u>55</u> | <u>Cesium-135</u> | <u>D, all compounds</u> | <u>7E+2</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| <u>55</u> | <u>Cesium-136</u> | <u>D, all compounds</u> | <u>4E+2</u> | <u>7E+2</u> | <u>3E-7</u> | <u>9E-10</u> | <u>6E-6</u> | <u>6E-5</u> |
| <u>55</u> | <u>Cesium-137</u> | <u>D, all compounds</u> | <u>1E+2</u> | <u>2E+2</u> | <u>6E-8</u> | <u>2E-10</u> | <u>1E-6</u> | <u>1E-5</u> |
| <u>55</u> | <u>Cesium-138²</u> | <u>D, all compounds</u> | <u>2E+4</u> <u>St wall</u> <u>(3E+4)</u> | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | - | - |
| | | | | | | | <u>4E-4</u> | <u>4E-3</u> |
| <u>56</u> | <u>Barium-126²</u> | <u>D, all compounds</u> | <u>6E+3</u> | <u>2E+4</u> | <u>6E-6</u> | <u>2E-8</u> | <u>8E-5</u> | <u>8E-4</u> |
| <u>56</u> | <u>Barium-128</u> | <u>D, all compounds</u> | <u>5E+2</u> | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | <u>7E-6</u> | <u>7E-5</u> |
| <u>56</u> | <u>Barium-131m²</u> | <u>D, all compounds</u> | <u>4E+5</u> <u>St wall</u> <u>(5E+5)</u> | <u>1E+6</u> | <u>6E-4</u> | <u>2E-6</u> | - | - |
| | | | | | | | <u>7E-3</u> | <u>7E-2</u> |
| <u>56</u> | <u>Barium-131</u> | <u>D, all compounds</u> | <u>3E+3</u> | <u>8E+3</u> | <u>3E-6</u> | <u>1E-8</u> | <u>4E-5</u> | <u>4E-4</u> |

| | | | | | | | | |
|----|----------------------------------|---|---|--|----------------------------|------------------------------|------------------|------------------|
| 56 | <u>Barium-133m</u> | <u>D, all compounds</u> | <u>2E+3</u> <u>LLI wall</u> <u>(3E+3)</u> | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | - | - |
| | | | - | - | - | - | <u>4E-5</u> | <u>4E-4</u> |
| 56 | <u>Barium-133</u> | <u>D, all compounds</u> | <u>2E+3</u> | <u>7E+2</u> | <u>3E-7</u> | <u>9E-10</u> | <u>2E-5</u> | <u>2E-4</u> |
| 56 | <u>Barium-135m</u> | <u>D, all compounds</u> | <u>3E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>4E-5</u> | <u>4E-4</u> |
| 56 | <u>Barium-139²</u> | <u>D, all compounds</u> | <u>1E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 56 | <u>Barium-140</u> | <u>D, all compounds</u> | <u>5E+2</u> <u>LLI wall</u> <u>(6E+2)</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - | - |
| | | | - | - | - | - | <u>8E-6</u> | <u>8E-5</u> |
| 56 | <u>Barium-141²</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>7E+4</u> | <u>3E-5</u> | <u>1E-7</u> | <u>3E-4</u> | <u>3E-3</u> |
| 56 | <u>Barium-142²</u> | <u>D, all compounds</u> | <u>5E+4</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | <u>7E-4</u> | <u>7E-3</u> |
| 57 | <u>Lanthanum-131²</u> | <u>D, all compounds except</u> <u>those given for W</u> <u>W, oxides and hydroxides</u> | <u>5E+4</u> - | <u>1E+5</u> <u>2E+5</u> | <u>5E-5</u> <u>7E-5</u> | <u>2E-7</u> <u>2E-7</u> | <u>6E-4</u> - | <u>6E-3</u> - |
| 57 | <u>Lanthanum-132</u> | <u>D, see ¹³¹La</u> <u>W, see ¹³¹La</u> | <u>3E+3</u> - | <u>1E+4</u> <u>1E+4</u> | <u>4E-6</u> <u>5E-6</u> | <u>1E-8</u> <u>2E-8</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 57 | <u>Lanthanum-135</u> | <u>D, see ¹³¹La</u> <u>W, see ¹³¹La</u> | <u>4E+4</u> - | <u>1E+5</u> <u>9E+4</u> | <u>4E-5</u> <u>4E-5</u> | <u>1E-7</u> <u>1E-7</u> | <u>5E-4</u> - | <u>5E-3</u> - |
| 57 | <u>Lanthanum-137</u> | <u>D, see ¹³¹La</u> | <u>1E+4</u> | <u>6E+1</u> <u>Liver</u> <u>(7E+1)</u> | <u>3E-8</u> | - | <u>2E-4</u> | <u>2E-3</u> |
| | | <u>W, see ¹³¹La</u> | - | <u>3E+2</u> <u>Liver</u> <u>(3E+2)</u> | <u>1E-7</u> | - | - | - |
| | | | - | - | - | <u>4E-10</u> | - | - |
| 57 | <u>Lanthanum-138</u> | <u>D, see ¹³¹La</u> <u>W, see ¹³¹La</u> | <u>9E+2</u> - | <u>4E+0</u> <u>1E+1</u> | <u>1E-9</u> <u>6E-9</u> | <u>5E-12</u> <u>2E-11</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| 57 | <u>Lanthanum-140</u> | <u>D, see ¹³¹La</u> <u>W, see ¹³¹La</u> | <u>6E+2</u> - | <u>1E+3</u> <u>1E+3</u> | <u>6E-7</u> <u>5E-7</u> | <u>2E-9</u> <u>2E-9</u> | <u>9E-6</u> - | <u>9E-5</u> - |
| 57 | <u>Lanthanum-141</u> | <u>D, see ¹³¹La</u> <u>W, see ¹³¹La</u> | <u>4E+3</u> - | <u>9E+3</u> <u>1E+4</u> | <u>4E-6</u> <u>5E-6</u> | <u>1E-8</u> <u>2E-8</u> | <u>5E-5</u> - | <u>5E-4</u> - |
| 57 | <u>Lanthanum-142²</u> | <u>D, see ¹³¹La</u> <u>W, see ¹³¹La</u> | <u>8E+3</u> - | <u>2E+4</u> <u>3E+4</u> | <u>9E-6</u> <u>1E-5</u> | <u>3E-8</u> <u>5E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 57 | <u>Lanthanum-143²</u> | <u>D, see ¹³¹La</u> | <u>4E+4</u> <u>St wall</u> <u>(4E+4)</u> | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | - | - |
| | | <u>W, see ¹³¹La</u> | - | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | <u>5E-4</u> | <u>5E-3</u> |
| | | | - | - | - | - | - | - |
| 58 | <u>Cerium-134</u> | <u>W, all compounds except</u> <u>those given for Y</u> | <u>5E+2</u> <u>LLI wall</u> <u>(6E+2)</u> | <u>7E+2</u> | <u>3E-7</u> | <u>1E-9</u> | - | - |
| | | <u>Y, oxides, hydroxides,</u> <u>and fluorides</u> | - | <u>7E+2</u> | <u>3E-7</u> | <u>9E-10</u> | <u>8E-6</u> | <u>8E-5</u> |
| 58 | <u>Cerium-135</u> | <u>W, see ¹³⁴Ce</u> <u>Y, see ¹³⁴Ce</u> | <u>2E+3</u> - | <u>4E+3</u> <u>4E+3</u> | <u>2E-6</u> <u>1E-6</u> | <u>5E-9</u> <u>5E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 58 | <u>Cerium-137m</u> | <u>W, see ¹³⁴Ce</u> | <u>2E+3</u> <u>LLI wall</u> <u>(2E+3)</u> | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| | | <u>Y, see ¹³⁴Ce</u> | - | <u>4E+3</u> | <u>2E-6</u> | <u>5E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| 58 | <u>Cerium-137</u> | <u>W, see ¹³⁴Ce</u> <u>Y, see ¹³⁴Ce</u> | <u>5E+4</u> - | <u>1E+5</u> <u>1E+5</u> | <u>6E-5</u> <u>5E-5</u> | <u>2E-7</u> <u>2E-7</u> | <u>7E-4</u> - | <u>7E-3</u> - |
| 58 | <u>Cerium-139</u> | <u>W, see ¹³⁴Ce</u> <u>Y, see ¹³⁴Ce</u> | <u>5E+3</u> - | <u>8E+2</u> <u>7E+2</u> | <u>3E-7</u> <u>3E-7</u> | <u>1E-9</u> <u>9E-10</u> | <u>7E-5</u> - | <u>7E-4</u> - |
| 58 | <u>Cerium-141</u> | <u>W, see ¹³⁴Ce</u> | <u>2E+3</u> <u>LLI wall</u> <u>(2E+3)</u> | <u>7E+2</u> | <u>3E-7</u> | <u>1E-9</u> | - | - |
| | | | - | - | - | - | <u>3E-5</u> | <u>3E-4</u> |

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|----|--------------------------------------|--|---|-----------------|-------------|--------------|--------------|-------------|-------------|
| | | Y, see ¹³⁴ Ce | = | <u>6E+2</u> | <u>2E-7</u> | <u>8E-10</u> | = | = | |
| 58 | <u>Cerium-143</u> | W, see ¹³⁴ Ce | | <u>1E+3</u> | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | = | = |
| | | | | <u>LLI wall</u> | | | | | |
| | | | | <u>(1E+3)</u> | = | = | = | <u>2E-5</u> | <u>2E-4</u> |
| | | Y, see ¹³⁴ Ce | = | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | = | = | |
| 58 | <u>Cerium-144</u> | W, see ¹³⁴ Ce | | <u>2E+2</u> | <u>3E+1</u> | <u>1E-8</u> | <u>4E-11</u> | = | = |
| | | | | <u>LLI wall</u> | | | | | |
| | | | | <u>(3E+2)</u> | = | = | = | <u>3E-6</u> | <u>3E-5</u> |
| | | Y, see ¹³⁴ Ce | = | <u>1E+1</u> | <u>6E-9</u> | <u>2E-11</u> | = | = | |
| 59 | <u>Praseodymium-136²</u> | W, all compounds except those given for Y | | <u>5E+4</u> | <u>2E+5</u> | <u>1E-4</u> | <u>3E-7</u> | = | = |
| | | | | <u>St wall</u> | | | | | |
| | | | | <u>(7E+4)</u> | = | = | = | <u>1E-3</u> | <u>1E-2</u> |
| | | Y, oxides, hydroxides, carbides, and fluorides | = | <u>2E+5</u> | <u>9E-5</u> | <u>3E-7</u> | = | = | |
| 59 | <u>Praseodymium-137²</u> | W, see ¹³⁶ Pr | | <u>4E+4</u> | <u>2E+5</u> | <u>6E-5</u> | <u>2E-7</u> | <u>5E-4</u> | <u>5E-3</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | = | = |
| 59 | <u>Praseodymium-138m</u> | W, see ¹³⁶ Pr | | <u>1E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | = | = |
| 59 | <u>Praseodymium-139</u> | W, see ¹³⁶ Pr | | <u>4E+4</u> | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | <u>6E-4</u> | <u>6E-3</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | = | = |
| 59 | <u>Praseodymium-142m²</u> | W, see ¹³⁶ Pr | | <u>8E+4</u> | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | = | = |
| 59 | <u>Praseodymium-142</u> | W, see ¹³⁶ Pr | | <u>1E+3</u> | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | = | = |
| 59 | <u>Praseodymium-143</u> | W, see ¹³⁶ Pr | | <u>9E+2</u> | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | = | = |
| | | | | <u>LLI wall</u> | | | | | |
| | | | | <u>(1E+3)</u> | = | = | = | <u>2E-5</u> | <u>2E-4</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>7E+2</u> | <u>3E-7</u> | <u>9E-10</u> | = | = |
| 59 | <u>Praseodymium-144²</u> | W, see ¹³⁶ Pr | | <u>3E+4</u> | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | = | = |
| | | | | <u>St wall</u> | | | | | |
| | | | | <u>(4E+4)</u> | = | = | = | <u>6E-4</u> | <u>6E-3</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | = | = |
| 59 | <u>Praseodymium-145</u> | W, see ¹³⁶ Pr | | <u>3E+3</u> | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>4E-5</u> | <u>4E-4</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>8E+3</u> | <u>3E-6</u> | <u>1E-8</u> | = | = |
| 59 | <u>Praseodymium-147²</u> | W, see ¹³⁶ Pr | | <u>5E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | = | = |
| | | | | <u>St wall</u> | | | | | |
| | | | | <u>(8E+4)</u> | = | = | = | <u>1E-3</u> | <u>1E-2</u> |
| | | Y, see ¹³⁶ Pr | = | = | <u>2E+5</u> | <u>-5</u> | <u>3E-7</u> | = | = |
| 60 | <u>Neodymium-136²</u> | W, all compounds except those given for Y | | <u>1E+4</u> | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| | | Y, oxides, hydroxides, carbides, and fluorides | = | = | <u>5E+4</u> | <u>2E-5</u> | <u>8E-8</u> | = | = |
| 60 | <u>Neodymium-138</u> | W, see ¹³⁶ Nd | | <u>2E+3</u> | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | Y, see ¹³⁶ Nd | = | = | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | = | = |
| 60 | <u>Neodymium-139m</u> | W, see ¹³⁶ Nd | | <u>5E+3</u> | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | Y, see ¹³⁶ Nd | = | = | <u>1E+4</u> | <u>-6</u> | <u>2E-8</u> | = | = |
| 60 | <u>Neodymium-139²</u> | W, see ¹³⁶ Nd | | <u>9E+4</u> | <u>3E+5</u> | <u>1E-4</u> | <u>5E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| | | Y, see ¹³⁶ Nd | = | = | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | = | = |
| 60 | <u>Neodymium-141</u> | W, see ¹³⁶ Nd | | <u>2E+5</u> | <u>7E+5</u> | <u>3E-4</u> | <u>1E-6</u> | <u>2E-3</u> | <u>2E-2</u> |
| | | Y, see ¹³⁶ Nd | = | = | <u>6E+5</u> | <u>3E-4</u> | <u>9E-7</u> | = | = |
| 60 | <u>Neodymium-147</u> | W, see ¹³⁶ Nd | | <u>1E+3</u> | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | = | = |
| | | | | <u>LLI wall</u> | | | | | |
| | | | | <u>(1E+3)</u> | = | = | = | <u>2E-5</u> | <u>2E-4</u> |
| | | Y, see ¹³⁶ Nd | = | = | <u>8E+2</u> | <u>4E-7</u> | <u>1E-9</u> | = | = |
| 60 | <u>Neodymium-149²</u> | W, see ¹³⁶ Nd | | <u>1E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>1E-4</u> | <u>1E-3</u> |

| | | | | | | | | |
|----|-----------------------------------|--|------------------------------------|------------------------------------|--------------|--------------|-------------|-------------|
| | | Y, see ¹³⁶ Nd | = | <u>2E+4</u> | <u>1E-5</u> | <u>3E-8</u> | = | = |
| 60 | <u>Neodymium-151²</u> | W, see ¹³⁶ Nd | <u>7E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | <u>9E-4</u> | <u>9E-3</u> |
| | | Y, see ¹³⁶ Nd | = | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | = | = |
| 61 | <u>Promethium-141²</u> | W, all compounds except those given for Y | <u>5E+4</u> St wall (6E+4) | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | = | = |
| | | Y, oxides, hydroxides, carbides, and fluorides | = | = | = | = | <u>8E-4</u> | <u>8E-3</u> |
| | | | = | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | = | = |
| 61 | <u>Promethium-143</u> | W, see ¹⁴¹ Pm | <u>5E+3</u> | <u>6E+2</u> | <u>2E-7</u> | <u>8E-10</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | Y, see ¹⁴¹ Pm | = | <u>7E+2</u> | <u>3E-7</u> | <u>1E-9</u> | = | = |
| 61 | <u>Promethium-144</u> | W, see ¹⁴¹ Pm | <u>1E+3</u> | <u>1E+2</u> | <u>5E-8</u> | <u>2E-10</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | Y, see ¹⁴¹ Pm | = | <u>1E+2</u> | <u>5E-8</u> | <u>2E-10</u> | = | = |
| 61 | <u>Promethium-145</u> | W, see ¹⁴¹ Pm | <u>1E+4</u> | <u>2E+2</u> Bone surf (2E+2) | <u>7E-8</u> | = | <u>1E-4</u> | <u>1E-3</u> |
| | | Y, see ¹⁴¹ Pm | = | <u>2E+2</u> | <u>8E-8</u> | <u>3E-10</u> | = | = |
| | | | = | = | = | <u>3E-10</u> | = | = |
| 61 | <u>Promethium-146</u> | W, see ¹⁴¹ Pm | <u>2E+3</u> | <u>5E+1</u> | <u>2E-8</u> | <u>7E-11</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | Y, see ¹⁴¹ Pm | = | <u>4E+1</u> | <u>2E-8</u> | <u>6E-11</u> | = | = |
| 61 | <u>Promethium-147</u> | W, see ¹⁴¹ Pm | <u>4E+3</u> LLI wall (5E+3) | <u>1E+2</u> Bone surf (2E+2) | <u>5E-8</u> | = | = | = |
| | | Y, see ¹⁴¹ Pm | = | <u>1E+2</u> | <u>6E-8</u> | <u>3E-10</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | | = | = | = | <u>2E-10</u> | = | = |
| 61 | <u>Promethium-148m</u> | W, see ¹⁴¹ Pm | <u>7E+2</u> | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | Y, see ¹⁴¹ Pm | = | <u>3E+2</u> | <u>1E-7</u> | <u>5E-10</u> | = | = |
| 61 | <u>Promethium-148</u> | W, see ¹⁴¹ Pm | <u>4E+2</u> LLI wall (5E+2) | <u>5E+2</u> | <u>2E-7</u> | <u>8E-10</u> | = | = |
| | | Y, see ¹⁴¹ Pm | = | <u>5E+2</u> | <u>2E-7</u> | <u>7E-10</u> | <u>7E-6</u> | <u>7E-5</u> |
| | | | = | = | = | = | = | = |
| 61 | <u>Promethium-149</u> | W, see ¹⁴¹ Pm | <u>1E+3</u> LLI wall (1E+3) | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | = | = |
| | | Y, see ¹⁴¹ Pm | = | <u>2E+3</u> | <u>8E-7</u> | <u>2E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | | = | = | = | = | = | = |
| 61 | <u>Promethium-150</u> | W, see ¹⁴¹ Pm | <u>5E+3</u> | <u>2E+4</u> | <u>8E-6</u> | <u>3E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | Y, see ¹⁴¹ Pm | = | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | = | = |
| 61 | <u>Promethium-151</u> | W, see ¹⁴¹ Pm | <u>2E+3</u> | <u>4E+3</u> | <u>1E-6</u> | <u>5E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | Y, see ¹⁴¹ Pm | = | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | = | = |
| 62 | <u>Samarium-141m²</u> | W, all compounds | <u>3E+4</u> | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | <u>4E-4</u> | <u>4E-3</u> |
| 62 | <u>Samarium-141²</u> | W, all compounds | <u>5E+4</u> St wall (6E+4) | <u>2E+5</u> | <u>8E-5</u> | <u>2E-7</u> | = | = |
| | | | = | = | = | = | <u>8E-4</u> | <u>8E-3</u> |
| 62 | <u>Samarium-142²</u> | W, all compounds | <u>8E+3</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 62 | <u>Samarium-145</u> | W, all compounds | <u>6E+3</u> | <u>5E+2</u> | <u>2E-7</u> | <u>7E-10</u> | <u>8E-5</u> | <u>8E-4</u> |
| 62 | <u>Samarium-146</u> | W, all compounds | <u>1E+1</u> Bone surf (3E+1) | <u>4E-2</u> Bone surf (6E-2) | <u>1E-11</u> | = | = | = |
| | | | = | = | = | <u>9E-14</u> | <u>3E-7</u> | <u>3E-6</u> |
| 62 | <u>Samarium-147</u> | W, all compounds | <u>2E+1</u> Bone surf (3E+1) | <u>4E-2</u> Bone surf (7E-2) | <u>2E-11</u> | = | = | = |
| | | | = | = | = | <u>1E-13</u> | <u>4E-7</u> | <u>4E-6</u> |
| 62 | <u>Samarium-151</u> | W, all compounds | <u>1E+4</u> LLI wall (1E+4) | <u>1E+2</u> Bone surf (2E+2) | <u>4E-8</u> | = | = | = |
| | | | = | = | = | <u>2E-10</u> | <u>2E-4</u> | <u>2E-3</u> |
| 62 | <u>Samarium-153</u> | W, all compounds | <u>2E+3</u> LLI wall | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | = | = |

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| | | | | | | | | |
|----|---|--|---|--|--|----------------------------------|-----------------------|-----------------------|
| | | | (2E+3) | - | - | - | 3E-5 | 3E-4 |
| 62 | <u>Samarium-155²</u> | <u>W, all compounds</u> | <u>6E+4</u> <u>St wall</u> <u>(8E+4)</u> | <u>2E+5</u> | <u>9E-5</u> | <u>3E-7</u> | - | - |
| | | | - | - | - | - | <u>1E-3</u> | <u>1E-2</u> |
| 62 | <u>Samarium-156</u> | <u>W, all compounds</u> | <u>5E+3</u> | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| 63 | <u>Europium-145</u> | <u>W, all compounds</u> | <u>2E+3</u> | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 63 | <u>Europium-146</u> | <u>W, all compounds</u> | <u>1E+3</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| 63 | <u>Europium-147</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | <u>4E-5</u> | <u>4E-4</u> |
| 63 | <u>Europium-148</u> | <u>W, all compounds</u> | <u>1E+3</u> | <u>4E+2</u> | <u>1E-7</u> | <u>5E-10</u> | <u>1E-5</u> | <u>1E-4</u> |
| 63 | <u>Europium-149</u> | <u>W, all compounds</u> | <u>1E+4</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>2E-4</u> | <u>2E-3</u> |
| 63 | <u>Europium-150</u> <u>(12.62 h)</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>8E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>4E-5</u> | <u>4E-4</u> |
| 63 | <u>Europium-150</u> <u>(34.2 y)</u> | <u>W, all compounds</u> | <u>8E+2</u> | <u>2E+1</u> | <u>8E-9</u> | <u>3E-11</u> | <u>1E-5</u> | <u>1E-4</u> |
| 63 | <u>Europium-152m</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | <u>4E-5</u> | <u>4E-4</u> |
| 63 | <u>Europium-152</u> | <u>W, all compounds</u> | <u>8E+2</u> | <u>2E+1</u> | <u>1E-8</u> | <u>3E-11</u> | <u>1E-5</u> | <u>1E-4</u> |
| 63 | <u>Europium-154</u> | <u>W, all compounds</u> | <u>5E+2</u> | <u>2E+1</u> | <u>8E-9</u> | <u>3E-11</u> | <u>7E-6</u> | <u>7E-5</u> |
| 63 | <u>Europium-155</u> | <u>W, all compounds</u> | <u>4E+3</u> | <u>9E+1</u> <u>Bone surf</u> <u>(1E+2)</u> | <u>4E-8</u> | - | <u>5E-5</u> | <u>5E-4</u> |
| | | | - | - | - | <u>2E-10</u> | - | - |
| 63 | <u>Europium-156</u> | <u>W, all compounds</u> | <u>6E+2</u> | <u>5E+2</u> | <u>2E-7</u> | <u>6E-10</u> | <u>8E-6</u> | <u>8E-5</u> |
| 63 | <u>Europium-157</u> | <u>W, all compounds</u> | <u>2E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| 63 | <u>Europium-158²</u> | <u>W, all compounds</u> | <u>2E+4</u> | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| 64 | <u>Gadolinium-145²</u> | <u>D, all compounds except</u> <u>those given for W</u> | <u>5E+4</u> <u>St wall</u> <u>(5E+4)</u> | <u>2E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | <u>W, oxides, hydroxides,</u> <u>and fluorides</u> | - | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| 64 | <u>Gadolinium-146</u> | <u>D, see ¹⁴⁵Gd</u> <u>W, see ¹⁴⁵Gd</u> | <u>1E+3</u> - | <u>1E+2</u> <u>3E+2</u> | <u>5E-8</u> <u>1E-7</u> | <u>2E-10</u> <u>4E-10</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 64 | <u>Gadolinium-147</u> | <u>D, see ¹⁴⁵Gd</u> <u>W, see ¹⁴⁵Gd</u> | <u>2E+3</u> - | <u>4E+3</u> <u>4E+3</u> | <u>2E-6</u> <u>1E-6</u> | <u>6E-9</u> <u>5E-9</u> | <u>3E-5</u> - | <u>3E-4</u> - |
| 64 | <u>Gadolinium-148</u> | <u>D, see ¹⁴⁵Gd</u> <u>W, see ¹⁴⁵Gd</u> | <u>1E+1</u> <u>Bone surf</u> <u>(2E+1)</u> - | <u>8E+3</u> <u>Bone surf</u> <u>(2E+2)</u> <u>3E-2</u> | <u>3E-12</u> - <u>1E-11</u> | - <u>2E-14</u> - | - <u>3E-7</u> - | - <u>3E-6</u> - |
| | | | - | <u>Bone surf</u> <u>(6E-2)</u> | - | <u>8E-14</u> | - | - |
| 64 | <u>Gadolinium-149</u> | <u>D, see ¹⁴⁵Gd</u> <u>W, see ¹⁴⁵Gd</u> | <u>3E+3</u> - | <u>2E+3</u> <u>2E+3</u> | <u>9E-7</u> <u>1E-6</u> | <u>3E-9</u> <u>3E-9</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 64 | <u>Gadolinium-151</u> | <u>D, see ¹⁴⁵Gd</u> <u>W, see ¹⁴⁵Gd</u> | <u>6E+3</u> - | <u>4E+2</u> <u>Bone surf</u> <u>(6E+2)</u> <u>1E+3</u> | <u>2E-7</u> - <u>5E-7</u> | - <u>9E-10</u> <u>2E-9</u> | <u>9E-5</u> - | <u>9E-4</u> - |
| 64 | <u>Gadolinium-152</u> | <u>D, see ¹⁴⁵Gd</u> <u>W, see ¹⁴⁵Gd</u> | <u>2E+1</u> <u>Bone surf</u> <u>(3E+1)</u> - | <u>1E-2</u> <u>Bone surf</u> <u>(2E-2)</u> <u>4E-2</u> <u>Bone surf</u> <u>(8E-2)</u> | <u>4E-12</u> - <u>2E-11</u> - | - <u>3E-14</u> - | - <u>4E-7</u> - | - <u>4E-6</u> - |
| | | | - | - | - | <u>1E-13</u> | - | - |
| 64 | <u>Gadolinium-153</u> | <u>D, see ¹⁴⁵Gd</u> | <u>5E+3</u> | <u>1E+2</u> <u>Bone surf</u> | <u>6E-8</u> | - | <u>6E-5</u> | <u>6E-4</u> |

| | | | | | | | | |
|----|---------------------------|--|----------------------------|-----------------------------|--------------|----------------|-----------|-----------|
| | | W, see ¹⁴⁵ Gd | - | (2E+2) 6E+2 | - | 3E-10 8E-10 | - | - |
| 64 | Gadolinium-159 | D, see ¹⁴⁵ Gd W, see ¹⁴⁵ Gd | 3E+3 - | 8E+3 6E+3 | 3E-6 2E-6 | 1E-8 8E-9 | 4E-5 - | 4E-4 - |
| 65 | Terbium-147 ² | W, all compounds | 9E+3 | 3E+4 | 1E-5 | 5E-8 | 1E-4 | 1E-3 |
| 65 | Terbium-149 | W, all compounds | 5E+3 | 7E+2 | 3E-7 | 1E-9 | 7E-5 | 7E-4 |
| 65 | Terbium-150 | W, all compounds | 5E+3 | 2E+4 | 9E-6 | 3E-8 | 7E-5 | 7E-4 |
| 65 | Terbium-151 | W, all compounds | 4E+3 | 9E+3 | 4E-6 | 1E-8 | 5E-5 | 5E-4 |
| 65 | Terbium-153 | W, all compounds | 5E+3 | 7E+3 | 3E-6 | 1E-8 | 7E-5 | 7E-4 |
| 65 | Terbium-154 | W, all compounds | 2E+3 | 4E+3 | 2E-6 | 6E-9 | 2E-5 | 2E-4 |
| 65 | Terbium-155 | W, all compounds | 6E+3 | 8E+3 | 3E-6 | 1E-8 | 8E-5 | 8E-4 |
| 65 | Terbium-156m (5.0 h) | W, all compounds | 2E+4 | 3E+4 | 1E-5 | 4E-8 | 2E-4 | 2E-3 |
| 65 | Terbium-156m (24.4 h) | W, all compounds | 7E+3 | 8E+3 | 3E-6 | 1E-8 | 1E-4 | 1E-3 |
| 65 | Terbium-156 | W, all compounds | 1E+3 | 1E+3 | 6E-7 | 2E-9 | 1E-5 | 1E-4 |
| 65 | Terbium-157 | W, all compounds | 5E+4 LLI wall (5E+4) | 3E+2 Bone surf (6E+2) | 1E-7 - | - 8E-10 | - 7E-4 | - 7E-3 |
| 65 | Terbium-158 | W, all compounds | 1E+3 | 2E+1 | 8E-9 | 3E-11 | 2E-5 | 2E-4 |
| 65 | Terbium-160 | W, all compounds | 8E+2 | 2E+2 | 9E-8 | 3E-10 | 1E-5 | 1E-4 |
| 65 | Terbium-161 | W, all compounds | 2E+3 LLI wall (2E+3) | 2E+3 - | 7E-7 - | 2E-9 - | - 3E-5 | - 3E-4 |
| 66 | Dysprosium-155 | W, all compounds | 9E+3 | 3E+4 | 1E-5 | 4E-8 | 1E-4 | 1E-3 |
| 66 | Dysprosium-157 | W, all compounds | 2E+4 | 6E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| 66 | Dysprosium-159 | W, all compounds | 1E+4 | 2E+3 | 1E-6 | 3E-9 | 2E-4 | 2E-3 |
| 66 | Dysprosium-165 | W, all compounds | 1E+4 | 5E+4 | 2E-5 | 6E-8 | 2E-4 | 2E-3 |
| 66 | Dysprosium-166 | W, all compounds | 6E+2 LLI wall (8E+2) | 7E+2 - | 3E-7 - | 1E-9 - | - 1E-5 | - 1E-4 |
| 67 | Holmium-155 ² | W, all compounds | 4E+4 | 2E+5 | 6E-5 | 2E-7 | 6E-4 | 6E-3 |
| 67 | Holmium-157 ² | W, all compounds | 3E+5 | 1E+6 | 6E-4 | 2E-6 | 4E-3 | 4E-2 |
| 67 | Holmium-159 ² | W, all compounds | 2E+5 | 1E+6 | 4E-4 | 1E-6 | 3E-3 | 3E-2 |
| 67 | Holmium-161 | W, all compounds | 1E+5 | 4E+5 | 2E-4 | 6E-7 | 1E-3 | 1E-2 |
| 67 | Holmium-162m ² | W, all compounds | 5E+4 | 3E+5 | 1E-4 | 4E-7 | 7E-4 | 7E-3 |
| 67 | Holmium-162 ² | W, all compounds | 5E+5 St wall (8E+5) | 2E+6 - | 1E-3 - | 3E-6 - | - 1E-2 | - 1E-1 |
| 67 | Holmium-164m ² | W, all compounds | 1E+5 | 3E+5 | 1E-4 | 4E-7 | 1E-3 | 1E-2 |
| 67 | Holmium-164 ² | W, all compounds | 2E+5 St wall (2E+5) | 6E+5 - | 3E-4 - | 9E-7 - | - 3E-3 | - 3E-2 |
| 67 | Holmium-166m | W, all compounds | 6E+2 | 7E+0 | 3E-9 | 9E-12 | 9E-6 | 9E-5 |
| 67 | Holmium-166 | W, all compounds | 9E+2 LLI wall (9E+2) | 2E+3 - | 7E-7 - | 2E-9 - | - 1E-5 | - 1E-4 |

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| 67 | <u>Holmium-167</u> | <u>W, all compounds</u> | <u>2E+4</u> | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 68 | <u>Erbium-161</u> | <u>W, all compounds</u> | <u>2E+4</u> | <u>6E+4</u> | <u>3E-5</u> | <u>9E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 68 | <u>Erbium-165</u> | <u>W, all compounds</u> | <u>6E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | <u>9E-4</u> | <u>9E-3</u> |
| 68 | <u>Erbium-169</u> | <u>W, all compounds</u> | <u>3E+3</u> <u>LLI wall</u> <u>(4E+3)</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| 68 | <u>Erbium-171</u> | <u>W, all compounds</u> | <u>4E+3</u> | <u>1E+4</u> | <u>4E-6</u> | <u>1E-8</u> | <u>5E-5</u> | <u>5E-4</u> |
| 68 | <u>Erbium-172</u> | <u>W, all compounds</u> | <u>1E+3</u> <u>LLI wall</u> <u>(E+3)</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - | - |
| 69 | <u>Thulium-162²</u> | <u>W, all compounds</u> | <u>7E+4</u> <u>St wall</u> <u>(7E+4)</u> | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | - | - |
| 69 | <u>Thulium-166</u> | <u>W, all compounds</u> | <u>4E+3</u> | <u>1E+4</u> | <u>6E-6</u> | <u>2E-8</u> | <u>6E-5</u> | <u>6E-4</u> |
| 69 | <u>Thulium-167</u> | <u>W, all compounds</u> | <u>2E+3</u> <u>LLI wall</u> <u>(2E+3)</u> | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | - | - |
| 69 | <u>Thulium-170</u> | <u>W, all compounds</u> | <u>8E+2</u> <u>LLI wall</u> <u>(1E+3)</u> | <u>2E+2</u> | <u>9E-8</u> | <u>3E-10</u> | - | - |
| 69 | <u>Thulium-171</u> | <u>W, all compounds</u> | <u>1E+4</u> <u>LLI wall</u> <u>(1E+4)</u> | <u>3E+2</u> <u>Bone surf</u> <u>(6E+2)</u> | <u>1E-7</u> | - | - | - |
| 69 | <u>Thulium-172</u> | <u>W, all compounds</u> | <u>7E+2</u> <u>LLI wall</u> <u>(8E+2)</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | - | - |
| 69 | <u>Thulium-173</u> | <u>W, all compounds</u> | <u>4E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>6E-5</u> | <u>6E-4</u> |
| 69 | <u>Thulium-175²</u> | <u>W, all compounds</u> | <u>7E+4</u> <u>St wall</u> <u>(9E+4)</u> | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | - | - |
| 70 | <u>Ytterbium-162²</u> | <u>W, all compounds except those given for Y, oxides, hydroxides, and fluorides</u> | <u>7E+4</u> | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| 70 | <u>Ytterbium-166</u> | <u>W, see ¹⁶²Yb</u> <u>Y, see ¹⁶²Yb</u> | <u>1E+3</u> | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 70 | <u>Ytterbium-167²</u> | <u>W, see ¹⁶²Yb</u> <u>Y, see ¹⁶²Yb</u> | <u>3E+5</u> | <u>8E+5</u> | <u>3E-4</u> | <u>1E-6</u> | <u>4E-3</u> | <u>4E-2</u> |
| 70 | <u>Ytterbium-169</u> | <u>W, see ¹⁶²Yb</u> <u>Y, see ¹⁶²Yb</u> | <u>2E+3</u> | <u>8E+2</u> | <u>4E-7</u> | <u>1E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 70 | <u>Ytterbium-175</u> | <u>W, see ¹⁶²Yb</u> | <u>3E+3</u> <u>LLI wall</u> <u>(3E+3)</u> | <u>4E+3</u> | <u>1E-6</u> | <u>5E-9</u> | - | - |
| 70 | <u>Ytterbium-177²</u> | <u>W, see ¹⁶²Yb</u> <u>Y, see ¹⁶²Yb</u> | <u>2E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>7E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 70 | <u>Ytterbium-178²</u> | <u>W, see ¹⁶²Yb</u> <u>Y, see ¹⁶²Yb</u> | <u>1E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 71 | <u>Lutetium-169</u> | <u>W, all compounds except those given for Y, oxides, hydroxides, and fluorides</u> | <u>3E+3</u> | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| 71 | <u>Lutetium-170</u> | <u>W, see ¹⁶⁹Lu</u> | <u>1E+3</u> | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | <u>2E-5</u> | <u>2E-4</u> |

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|----|----------------------------------|--|---|--|----------------------------|-----------------------------------|-----------------------|-----------------------|
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>2E+3</u> | <u>-7</u> | <u>3E-9</u> | - | - |
| 71 | <u>Lutetium-171</u> | <u>W, see ¹⁶⁹Lu</u> <u>Y, see ¹⁶⁹Lu</u> | <u>2E+3</u> - | <u>2E+3</u> <u>2E+3</u> | <u>8E-7</u> <u>8E-7</u> | <u>3E-9</u> <u>3E-9</u> | <u>3E-5</u> - | <u>3E-4</u> - |
| 71 | <u>Lutetium-172</u> | <u>W, see ¹⁶⁹Lu</u> <u>Y, see ¹⁶⁹Lu</u> | <u>1E+3</u> - | <u>1E+3</u> <u>1E+3</u> | <u>5E-7</u> <u>5E-7</u> | <u>2E-9</u> <u>2E-9</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| 71 | <u>Lutetium-173</u> | <u>W, see ¹⁶⁹Lu</u> | <u>5E+3</u> | <u>3E+2</u> <u>Bone surf</u> <u>(5E+2)</u> | <u>1E-7</u> - | - <u>6E-10</u> <u>4E-10</u> | <u>7E-5</u> - | <u>7E-4</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | - | - |
| 71 | <u>Lutetium-174m</u> | <u>W, see ¹⁶⁹Lu</u> | <u>2E+3</u> <u>LLI wall</u> <u>(3E+3)</u> | <u>2E+2</u> <u>Bone surf</u> <u>(3E+2)</u> | <u>1E-7</u> - | - <u>5E-10</u> <u>3E-10</u> | - <u>4E-5</u> - | - <u>4E-4</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>2E+2</u> | <u>9E-8</u> | <u>3E-10</u> <u>2E-10</u> | - | - |
| 71 | <u>Lutetium-174</u> | <u>W, see ¹⁶⁹Lu</u> | <u>5E+3</u> | <u>1E+2</u> <u>Bone surf</u> <u>(2E+2)</u> | <u>5E-8</u> - | - <u>3E-10</u> <u>2E-10</u> | <u>7E-5</u> - | <u>7E-4</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>2E+2</u> | <u>6E-8</u> | <u>2E-10</u> | - | - |
| 71 | <u>Lutetium-176m</u> | <u>W, see ¹⁶⁹Lu</u> <u>Y, see ¹⁶⁹Lu</u> | <u>8E+3</u> - | <u>3E+4</u> <u>2E+4</u> | <u>1E-5</u> <u>9E-6</u> | <u>3E-8</u> <u>3E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 71 | <u>Lutetium-176</u> | <u>W, see ¹⁶⁹Lu</u> | <u>7E+2</u> | <u>5E+0</u> <u>Bone surf</u> <u>(1E+1)</u> | <u>2E-9</u> - | - <u>2E-11</u> <u>1E-11</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>8E+0</u> | <u>3E-9</u> | <u>1E-11</u> | - | - |
| 71 | <u>Lutetium-177m</u> | <u>W, see ¹⁶⁹Lu</u> | <u>7E+2</u> | <u>1E+2</u> <u>Bone surf</u> <u>(1E+2)</u> | <u>5E-8</u> - | - <u>2E-10</u> <u>1E-10</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>8E+1</u> | <u>3E-8</u> | <u>1E-10</u> | - | - |
| 71 | <u>Lutetium-177</u> | <u>W, see ¹⁶⁹Lu</u> | <u>2E+3</u> <u>LLI wall</u> <u>(3E+3)</u> | <u>2E+3</u> - | <u>9E-7</u> - | <u>3E-9</u> - | - <u>4E-5</u> - | - <u>4E-4</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | - | - |
| 71 | <u>Lutetium-178m²</u> | <u>W, see ¹⁶⁹Lu</u> | <u>5E+4</u> <u>St. wall</u> <u>(6E+4)</u> | <u>2E+5</u> - | <u>8E-5</u> - | <u>3E-7</u> - | - <u>8E-4</u> - | - <u>8E-3</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| 71 | <u>Lutetium-178²</u> | <u>W, see ¹⁶⁹Lu</u> | <u>4E+4</u> <u>St. wall</u> <u>(4E+4)</u> | <u>1E+5</u> - | <u>5E-5</u> - | <u>2E-7</u> - | - <u>6E-4</u> - | - <u>6E-3</u> - |
| | | <u>Y, see ¹⁶⁹Lu</u> | - | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - |
| 71 | <u>Lutetium-179</u> | <u>W, see ¹⁶⁹Lu</u> <u>Y, see ¹⁶⁹Lu</u> | <u>6E+3</u> - | <u>2E+4</u> <u>2E+4</u> | <u>8E-6</u> <u>6E-6</u> | <u>3E-8</u> <u>3E-8</u> | <u>9E-5</u> - | <u>9E-4</u> - |
| 72 | <u>Hafnium-170</u> | <u>D, all compounds except those given for W</u> <u>W, oxides, hydroxides, carbides, and nitrates</u> | <u>3E+3</u> - | <u>6E+3</u> <u>5E+3</u> | <u>2E-6</u> <u>2E-6</u> | <u>8E-9</u> <u>6E-9</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| 72 | <u>Hafnium-172</u> | <u>D, see ¹⁷⁰Hf</u> | <u>1E+3</u> | <u>9E+0</u> <u>Bone surf</u> <u>(2E+1)</u> | <u>4E-9</u> - | - <u>3E-11</u> - | <u>2E-5</u> - | <u>2E-4</u> - |
| | | <u>W, see ¹⁷⁰Hf</u> | - | <u>4E+1</u> <u>Bone surf</u> <u>(6E+1)</u> | <u>2E-8</u> - | - <u>8E-11</u> - | - | - |
| 72 | <u>Hafnium-173</u> | <u>D, see ¹⁷⁰Hf</u> <u>W, see ¹⁷⁰Hf</u> | <u>5E+3</u> - | <u>1E+4</u> <u>1E+4</u> | <u>5E-6</u> <u>5E-6</u> | <u>2E-8</u> <u>2E-8</u> | <u>7E-5</u> - | <u>7E-4</u> - |
| 72 | <u>Hafnium-175</u> | <u>D, see ¹⁷⁰Hf</u> | <u>3E+3</u> | <u>9E+2</u> <u>Bone surf</u> <u>(1E+3)</u> | <u>4E-7</u> - | - <u>1E-9</u> <u>2E-9</u> | <u>4E-5</u> - | <u>4E-4</u> - |
| | | <u>W, see ¹⁷⁰Hf</u> | - | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | - | - |
| 72 | <u>Hafnium-177m²</u> | <u>D, see ¹⁷⁰Hf</u> | <u>2E+4</u> | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>3E-4</u> | <u>3E-3</u> |

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| | | W, see ¹⁷⁰ Hf | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| 72 | Hafnium-178m | D, see ¹⁷⁰ Hf | 3E+2 | 1E+0 Bone surf (2E+0) | 5E-10 | - | 3E-6 | 3E-5 |
| | | W, see ¹⁷⁰ Hf | - | 5E+0 Bone surf (9E+0) | 2E-9 | 3E-12 | - | - |
| 72 | Hafnium-179m | D, see ¹⁷⁰ Hf | 1E+3 | 3E+2 Bone surf (6E+2) | 1E-7 | - | 1E-5 | 1E-4 |
| | | W, see ¹⁷⁰ Hf | - | 6E+2 | 3E-7 | 8E-10 8E-10 | - | - |
| 72 | Hafnium-180m | D, see ¹⁷⁰ Hf | 7E+3 | 2E+4 | 9E-6 | 3E-8 | 1E-4 | 1E-3 |
| | | W, see ¹⁷⁰ Hf | - | 3E+4 | 1E-5 | 4E-8 | - | - |
| 72 | Hafnium-181 | D, see ¹⁷⁰ Hf | 1E+3 | 2E+2 Bone surf (4E+2) | 7E-8 | - | 2E-5 | 2E-4 |
| | | W, see ¹⁷⁰ Hf | - | 4E+2 | 2E-7 | 6E-10 6E-10 | - | - |
| 72 | Hafnium-182m ² | D, see ¹⁷⁰ Hf | 4E+4 | 9E+4 | 4E-5 | 1E-7 | 5E-4 | 5E-3 |
| | | W, see ¹⁷⁰ Hf | - | 1E+5 | 6E-5 | 2E-7 | - | - |
| 72 | Hafnium-182 | D, see ¹⁷⁰ Hf | 2E+2 Bone surf (4E+2) | 8E-1 Bone surf (2E+0) | 3E-10 | - | - | - |
| | | W, see ¹⁷⁰ Hf | - | 3E+0 Bone surf (7E+0) | 1E-9 | 2E-12 | 5E-6 | 5E-5 |
| 72 | Hafnium-183 ² | D, see ¹⁷⁰ Hf | 2E+4 | 5E+4 | 2E-5 | 6E-8 | 3E-4 | 3E-3 |
| | | W, see ¹⁷⁰ Hf | - | 6E+4 | 2E-5 | 8E-8 | - | - |
| 72 | Hafnium-184 | D, see ¹⁷⁰ Hf | 2E+3 | 8E+3 | 3E-6 | 1E-8 | 3E-5 | 3E-4 |
| | | W, see ¹⁷⁰ Hf | - | 6E+3 | 3E-6 | 9E-9 | - | - |
| 73 | Tantalum-172 ² | W, all compounds except those given for Y Y, elemental Ta, oxides, hydroxides, halides, carbides, nitrates, and nitrides | 4E+4 | 1E+5 | 5E-5 | 2E-7 | 5E-4 | 5E-3 |
| | | | - | 1E+5 | 4E-5 | 1E-7 | - | - |
| 73 | Tantalum-173 | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 7E+3 | 2E+4 | 8E-6 | 3E-8 | 9E-5 | 9E-4 |
| | | | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 73 | Tantalum-174 ² | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 3E+4 | 1E+5 | 4E-5 | 1E-7 | 4E-4 | 4E-3 |
| | | | - | 9E+4 | 4E-5 | 1E-7 | - | - |
| 73 | Tantalum-175 | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 6E+3 | 2E+4 | 7E-6 | 2E-8 | 8E-5 | 8E-4 |
| | | | - | 1E+4 | 6E-6 | 2E-8 | - | - |
| 73 | Tantalum-176 | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 4E+3 | 1E+4 | 5E-6 | 2E-8 | 5E-5 | 5E-4 |
| | | | - | 1E+4 | 5E-6 | 2E-8 | - | - |
| 73 | Tantalum-177 | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 1E+4 | 2E+4 | 8E-6 | 3E-8 | 2E-4 | 2E-3 |
| | | | - | 2E+4 | 7E-6 | 2E-8 | - | - |
| 73 | Tantalum-178 | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 2E+4 | 9E+4 | 4E-5 | 1E-7 | 2E-4 | 2E-3 |
| | | | - | 7E+4 | 3E-5 | 1E-7 | - | - |
| 73 | Tantalum-179 | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 2E+4 | 5E+3 | 2E-6 | 8E-9 | 3E-4 | 3E-3 |
| | | | - | 9E+2 | 4E-7 | 1E-9 | - | - |
| 73 | Tantalum-180m | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 2E+4 | 7E+4 | 3E-5 | 9E-8 | 3E-4 | 3E-3 |
| | | | - | 6E+4 | 2E-5 | 8E-8 | - | - |
| 73 | Tantalum-180 | W, see ¹⁷² Ta Y, see ¹⁷² Ta | 1E+3 | 4E+2 | 2E-7 | 6E-10 | 2E-5 | 2E-4 |
| | | | - | 2E+1 | 1E-8 | 3E-11 | - | - |
| 73 | Tantalum-182m ² | W, see ¹⁷² Ta | 2E+5 St wall (2E+5) | 5E+5 | 2E-4 | 8E-7 | - | - |
| | | | - | - | - | - | 3E-3 | 3E-2 |

| | | | | | | | |
|----|--|--|-----------------|----------------|-------------|--------------|-------------|
| | <u>Y, see ¹⁷²Ta</u> | - | <u>4E+5</u> | <u>2E-4</u> | <u>6E-7</u> | - | - |
| 73 | <u>Tantalum-182</u> | <u>W, see ¹⁷²Ta</u> | <u>8E+2</u> | <u>3E+2</u> | <u>1E-7</u> | <u>5E-10</u> | <u>1E-5</u> |
| | | <u>Y, see ¹⁷²Ta</u> | - | <u>1E+2</u> | <u>6E-8</u> | <u>2E-10</u> | - |
| 73 | <u>Tantalum-183</u> | <u>W, see ¹⁷²Ta</u> | <u>9E+2</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | - |
| | | | <u>LLI wall</u> | - | - | - | - |
| | | | <u>(1E+3)</u> | - | - | - | <u>2E-5</u> |
| | <u>Y, see ¹⁷²Ta</u> | - | <u>1E+3</u> | <u>4E-7</u> | <u>1E-9</u> | - | <u>2E-4</u> |
| 73 | <u>Tantalum-184</u> | <u>W, see ¹⁷²Ta</u> | <u>2E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>8E-9</u> | <u>3E-5</u> |
| | | <u>Y, see ¹⁷²Ta</u> | - | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | - |
| 73 | <u>Tantalum-185²</u> | <u>W, see ¹⁷²Ta</u> | <u>3E+4</u> | <u>7E+4</u> | <u>3E-5</u> | <u>1E-7</u> | <u>4E-4</u> |
| | | <u>Y, see ¹⁷²Ta</u> | - | <u>6E+4</u> | <u>3E-5</u> | <u>9E-8</u> | - |
| 73 | <u>Tantalum-186²</u> | <u>W, see ¹⁷²Ta</u> | <u>5E+4</u> | <u>2E+5</u> | <u>1E-4</u> | <u>3E-7</u> | - |
| | | | <u>St wall</u> | - | - | - | - |
| | | | <u>(7E+4)</u> | - | - | - | <u>1E-3</u> |
| | <u>Y, see ¹⁷²Ta</u> | - | <u>2E+5</u> | <u>9E-5</u> | <u>3E-7</u> | - | <u>1E-2</u> |
| 74 | <u>Tungsten-176</u> | <u>D, all compounds</u> | <u>1E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>7E-8</u> | <u>1E-4</u> |
| 74 | <u>Tungsten-177</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>9E+4</u> | <u>4E-5</u> | <u>1E-7</u> | <u>3E-4</u> |
| 74 | <u>Tungsten-178</u> | <u>D, all compounds</u> | <u>5E+3</u> | <u>2E+4</u> | <u>8E-6</u> | <u>3E-8</u> | <u>7E-5</u> |
| 74 | <u>Tungsten-179²</u> | <u>D, all compounds</u> | <u>5E+5</u> | <u>2E+6</u> | <u>7E-4</u> | <u>2E-6</u> | <u>7E-3</u> |
| 74 | <u>Tungsten-181</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>5E-8</u> | <u>2E-4</u> |
| 74 | <u>Tungsten-185</u> | <u>D, all compounds</u> | <u>2E+3</u> | <u>7E+3</u> | <u>3E-6</u> | <u>9E-9</u> | - |
| | | | <u>LLI wall</u> | - | - | - | - |
| | | | <u>(3E+3)</u> | - | - | - | <u>4E-5</u> |
| 74 | <u>Tungsten-187</u> | <u>D, all compounds</u> | <u>2E+3</u> | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>3E-5</u> |
| 74 | <u>Tungsten-188</u> | <u>D, all compounds</u> | <u>4E+2</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | - |
| | | | <u>LLI wall</u> | - | - | - | - |
| | | | <u>(5E+2)</u> | - | - | - | <u>7E-6</u> |
| 75 | <u>Rhenium-177²</u> | <u>D, all compounds except those given for W</u> | <u>9E+4</u> | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | - |
| | | | <u>St wall</u> | - | - | - | - |
| | | | <u>(1E+5)</u> | - | - | - | <u>2E-3</u> |
| | <u>W, oxides, hydroxides, and nitrates</u> | - | <u>4E+5</u> | <u>1E-4</u> | <u>5E-7</u> | - | - |
| 75 | <u>Rhenium-178²</u> | <u>D, see ¹⁷⁷Re</u> | <u>7E+4</u> | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | - |
| | | | <u>St wall</u> | - | - | - | - |
| | | | <u>(1E+5)</u> | - | - | - | <u>1E-3</u> |
| | <u>W, see ¹⁷⁷Re</u> | - | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | - | <u>1E-2</u> |
| 75 | <u>Rhenium-181</u> | <u>D, see ¹⁷⁷Re</u> | <u>5E+3</u> | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>7E-5</u> |
| | | <u>W, see ¹⁷⁷Re</u> | - | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | - |
| 75 | <u>Rhenium-182 (12.7 h)</u> | <u>D, see ¹⁷⁷Re</u> | <u>7E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>9E-5</u> |
| | | <u>W, see ¹⁷⁷Re</u> | - | <u>2E+4</u> | <u>6E-6</u> | <u>2E-8</u> | - |
| 75 | <u>Rhenium-182 (64.0 h)</u> | <u>D, see ¹⁷⁷Re</u> | <u>1E+3</u> | <u>2E+3</u> | <u>1E-6</u> | <u>3E-9</u> | <u>2E-5</u> |
| | | <u>W, see ¹⁷⁷Re</u> | - | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | - |
| 75 | <u>Rhenium-184m</u> | <u>D, see ¹⁷⁷Re</u> | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>3E-5</u> |
| | | <u>W, see ¹⁷⁷Re</u> | - | <u>4E+2</u> | <u>2E-7</u> | <u>6E-10</u> | - |
| 75 | <u>Rhenium-184</u> | <u>D, see ¹⁷⁷Re</u> | <u>2E+3</u> | <u>4E+3</u> | <u>1E-6</u> | <u>5E-9</u> | <u>3E-5</u> |
| | | <u>W, see ¹⁷⁷Re</u> | - | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - |
| 75 | <u>Rhenium-186m</u> | <u>D, see ¹⁷⁷Re</u> | <u>1E+3</u> | <u>2E+3</u> | <u>7E-7</u> | - | - |
| | | | <u>St wall</u> | <u>St wall</u> | - | - | - |
| | | | <u>(2E+3)</u> | <u>(2E+3)</u> | - | <u>3E-9</u> | <u>2E-5</u> |
| | <u>W, see ¹⁷⁷Re</u> | - | - | <u>2E+2</u> | <u>6E-8</u> | <u>2E-10</u> | - |
| 75 | <u>Rhenium-186</u> | <u>D, see ¹⁷⁷Re</u> | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>3E-5</u> |

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| | | | | | | | | |
|----|---------------------------------|--|----------------------------------|---------------------------------|-------------|--------------|-------------|-------------|
| | | <u>W, see 177Re</u> | - | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | - | - |
| 75 | <u>Rhenium-187</u> | <u>D, see 177Re</u> | <u>6E+5</u> | <u>8E+5</u> | <u>4E-4</u> | - | <u>8E-3</u> | <u>8E-2</u> |
| | | | - | <u>St wall</u> <u>(9E+5)</u> | - | <u>1E-6</u> | - | - |
| | | <u>W, see 177Re</u> | - | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | - | - |
| 75 | <u>Rhenium-188m²</u> | <u>D, see 177Re</u> | <u>8E+4</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| | | <u>W, see 177Re</u> | - | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| 75 | <u>Rhenium-188</u> | <u>D, see 177Re</u> | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | <u>W, see 177Re</u> | - | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| 75 | <u>Rhenium-189</u> | <u>D, see 177Re</u> | <u>3E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | <u>4E-5</u> | <u>4E-4</u> |
| | | <u>W, see 177Re</u> | - | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| 76 | <u>Osmium-180²</u> | <u>D, all compounds except</u> <u>those given for W and Y</u> | <u>1E+5</u> | <u>4E+5</u> | <u>2E-4</u> | <u>5E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| | | <u>W, halides and nitrates</u> | - | <u>5E+5</u> | <u>2E-4</u> | <u>7E-7</u> | - | - |
| | | <u>Y, oxides and hydroxides</u> | - | <u>5E+5</u> | <u>2E-4</u> | <u>6E-7</u> | - | - |
| 76 | <u>Osmium-181²</u> | <u>D, see 180Os</u> | <u>1E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| | | <u>W, see 180Os</u> | - | <u>5E+4</u> | <u>2E-5</u> | <u>6E-8</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | - | - |
| 76 | <u>Osmium-182</u> | <u>D, see 180Os</u> | <u>2E+3</u> | <u>6E+3</u> | <u>2E-6</u> | <u>8E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | <u>W, see 180Os</u> | - | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| 76 | <u>Osmium-185</u> | <u>D, see 180Os</u> | <u>2E+3</u> | <u>5E+2</u> | <u>2E-7</u> | <u>7E-10</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | <u>W, see 180Os</u> | - | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | - | - |
| 76 | <u>Osmium-189m</u> | <u>D, see 180Os</u> | <u>8E+4</u> | <u>2E+5</u> | <u>1E-4</u> | <u>3E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| | | <u>W, see 180Os</u> | - | <u>2E+5</u> | <u>9E-5</u> | <u>3E-7</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| 76 | <u>Osmium-191m</u> | <u>D, see 180Os</u> | <u>1E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| | | <u>W, see 180Os</u> | - | <u>2E+4</u> | <u>8E-6</u> | <u>3E-8</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>2E+4</u> | <u>7E-6</u> | <u>2E-8</u> | - | - |
| 76 | <u>Osmium-191</u> | <u>D, see 180Os</u> | <u>2E+3</u> | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | - | - |
| | | | <u>LLI wall</u> <u>(3E+3)</u> | - | - | - | <u>3E-5</u> | <u>3E-4</u> |
| | | <u>W, see 180Os</u> | - | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - | - |
| 76 | <u>Osmium-193</u> | <u>D, see 180Os</u> | <u>2E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| | | | <u>LLI wall</u> <u>(2E+3)</u> | - | - | - | <u>2E-5</u> | <u>2E-4</u> |
| | | <u>W, see 180Os</u> | - | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| 76 | <u>Osmium-194</u> | <u>D, see 180Os</u> | <u>4E+2</u> | <u>4E+1</u> | <u>2E-8</u> | <u>6E-11</u> | - | - |
| | | | <u>LLI wall</u> <u>(6E+2)</u> | - | - | - | <u>8E-6</u> | <u>8E-5</u> |
| | | <u>W, see 180Os</u> | - | <u>6E+1</u> | <u>2E-8</u> | <u>8E-11</u> | - | - |
| | | <u>Y, see 180Os</u> | - | <u>8E+0</u> | <u>3E-9</u> | <u>1E-11</u> | - | - |
| 77 | <u>Iridium-182²</u> | <u>D, all compounds except</u> <u>those given for W and Y</u> | <u>4E+4</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | | <u>St wall</u> <u>(4E+4)</u> | - | - | - | <u>6E-4</u> | <u>6E-3</u> |
| | | <u>W, halides, nitrates,</u> <u>and metallic iridium</u> | - | <u>2E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | <u>Y, oxides and hydroxides</u> | - | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | - | - |
| 77 | <u>Iridium-184</u> | <u>D, see 182Ir</u> | <u>8E+3</u> | <u>2E+4</u> | <u>1E-5</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | <u>W, see 182Ir</u> | - | <u>3E+4</u> | <u>1E-5</u> | <u>5E-8</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | - | - |
| 77 | <u>Iridium-185</u> | <u>D, see 182Ir</u> | <u>5E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>1E+4</u> | <u>4E-6</u> | <u>1E-8</u> | - | - |
| 77 | <u>Iridium-186</u> | <u>D, see 182Ir</u> | <u>2E+3</u> | <u>8E+3</u> | <u>3E-6</u> | <u>1E-8</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | - | - |

| | | | | | | | | |
|----|----------------------------------|-------------------------|-------------|-------------|-------------|--------------|-------------|-------------|
| | | <u>Y, see 182Ir</u> | - | <u>6E+3</u> | <u>2E-6</u> | <u>8E-9</u> | - | - |
| 77 | <u>Iridium-187</u> | <u>D, see 182Ir</u> | <u>1E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>5E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | <u>W, see 182Ir</u> | - | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | - | - |
| 77 | <u>Iridium-188</u> | <u>D, see 182Ir</u> | <u>2E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>6E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>4E+3</u> | <u>1E-6</u> | <u>5E-9</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>3E+3</u> | <u>1E-6</u> | <u>5E-9</u> | - | - |
| 77 | <u>Iridium-189</u> | <u>D, see 182Ir</u> | <u>5E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | - | - |
| | | <u>LLI wall</u> | - | - | - | - | - | - |
| | | <u>(5E+3)</u> | - | - | - | - | <u>7E-5</u> | <u>7E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>4E+3</u> | <u>2E-6</u> | <u>5E-9</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>4E+3</u> | <u>-6</u> | <u>5E-9</u> | - | - |
| 77 | <u>Iridium-190m²</u> | <u>D, see 182Ir</u> | <u>2E+5</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | <u>2E-3</u> | <u>2E-2</u> |
| | | <u>W, see 182Ir</u> | - | <u>2E+5</u> | <u>9E-5</u> | <u>3E-7</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - |
| 77 | <u>Iridium-190</u> | <u>D, see 182Ir</u> | <u>1E+3</u> | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>1E+3</u> | <u>4E-7</u> | <u>1E-9</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>9E+2</u> | <u>4E-7</u> | <u>1E-9</u> | - | - |
| 77 | <u>Iridium-192m</u> | <u>D, see 182Ir</u> | <u>3E+3</u> | <u>9E+1</u> | <u>4E-8</u> | <u>1E-10</u> | <u>4E-5</u> | <u>4E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>2E+2</u> | <u>9E-8</u> | <u>3E-10</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>2E+1</u> | <u>6E-9</u> | <u>2E-11</u> | - | - |
| 77 | <u>Iridium-192</u> | <u>D, see 182Ir</u> | <u>9E+2</u> | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>4E+2</u> | <u>2E-7</u> | <u>6E-10</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>2E+2</u> | <u>9E-8</u> | <u>3E-10</u> | - | - |
| 77 | <u>Iridium-194m</u> | <u>D, see 182Ir</u> | <u>6E+2</u> | <u>9E+1</u> | <u>4E-8</u> | <u>1E-10</u> | <u>9E-6</u> | <u>9E-5</u> |
| | | <u>W, see 182Ir</u> | - | <u>2E+2</u> | <u>7E-8</u> | <u>2E-10</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>1E+2</u> | <u>4E-8</u> | <u>1E-10</u> | - | - |
| 77 | <u>Iridium-194</u> | <u>D, see 182Ir</u> | <u>1E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>1E-5</u> | <u>1E-4</u> |
| | | <u>W, see 182Ir</u> | - | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>2E+3</u> | <u>8E-7</u> | <u>3E-9</u> | - | - |
| 77 | <u>Iridium-195m</u> | <u>D, see 182Ir</u> | <u>8E+3</u> | <u>2E+4</u> | <u>1E-5</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| | | <u>W, see 182Ir</u> | - | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | - | - |
| 77 | <u>Iridium-195</u> | <u>D, see 182Ir</u> | <u>1E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| | | <u>W, see 182Ir</u> | - | <u>5E+4</u> | <u>2E-5</u> | <u>7E-8</u> | - | - |
| | | <u>Y, see 182Ir</u> | - | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | - | - |
| 78 | <u>Platinum-186</u> | <u>D, all compounds</u> | <u>1E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>5E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 78 | <u>Platinum-188</u> | <u>D, all compounds</u> | <u>2E+3</u> | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 78 | <u>Platinum-189</u> | <u>D, all compounds</u> | <u>1E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 78 | <u>Platinum-191</u> | <u>D, all compounds</u> | <u>4E+3</u> | <u>8E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>5E-5</u> | <u>5E-4</u> |
| 78 | <u>Platinum-193m</u> | <u>D, all compounds</u> | <u>3E+3</u> | <u>6E+3</u> | <u>3E-6</u> | <u>8E-9</u> | - | - |
| | | <u>LLI wall</u> | - | - | - | - | - | - |
| | | <u>(3E+4)</u> | - | - | - | - | <u>4E-5</u> | <u>4E-4</u> |
| 78 | <u>Platinum-193</u> | <u>D, all compounds</u> | <u>4E+4</u> | <u>2E+4</u> | <u>1E-5</u> | <u>3E-8</u> | - | - |
| | | <u>LLI wall</u> | - | - | - | - | - | - |
| | | <u>(5E+4)</u> | - | - | - | - | <u>6E-4</u> | <u>6E-3</u> |
| 78 | <u>Platinum-195m</u> | <u>D, all compounds</u> | <u>2E+3</u> | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| | | <u>LLI wall</u> | - | - | - | - | - | - |
| | | <u>(2E+3)</u> | - | - | - | - | <u>3E-5</u> | <u>3E-4</u> |
| 78 | <u>Platinum-197m²</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>4E+4</u> | <u>2E-5</u> | <u>6E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 78 | <u>Platinum-197</u> | <u>D, all compounds</u> | <u>3E+3</u> | <u>1E+4</u> | <u>4E-6</u> | <u>1E-8</u> | <u>4E-5</u> | <u>4E-4</u> |
| 78 | <u>Platinum-199²</u> | <u>D, all compounds</u> | <u>5E+4</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | <u>7E-4</u> | <u>7E-3</u> |
| 78 | <u>Platinum-200</u> | <u>D, all compounds</u> | <u>1E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>5E-9</u> | <u>2E-5</u> | <u>2E-4</u> |

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| | | | | | | | | |
|----|-----------------------------|--|---|--|--|--|--------------------------------------|--------------------------------------|
| 79 | <u>Gold-193</u> | D, all compounds except those given for W and Y W, halides and nitrates Y, oxides and hydroxides | <u>9E+3</u> - - | <u>3E+4</u> <u>2E+4</u> <u>2E+4</u> | <u>1E-5</u> <u>9E-6</u> <u>8E-6</u> | <u>4E-8</u> <u>3E-8</u> <u>3E-8</u> | <u>1E-4</u> - - | <u>1E-3</u> - - |
| 79 | <u>Gold-194</u> | D, see ¹⁹³ Au W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>3E+3</u> - - | <u>8E+3</u> <u>5E+3</u> <u>5E+3</u> | <u>3E-6</u> <u>E-6</u> <u>2E-6</u> | <u>1E-8</u> <u>8E-9</u> <u>7E-9</u> | <u>4E-5</u> - - | <u>4E-4</u> - - |
| 79 | <u>Gold-195</u> | D, see ¹⁹³ Au W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>5E+3</u> - - | <u>1E+4</u> <u>1E+3</u> <u>4E+2</u> | <u>5E-6</u> <u>6E-7</u> <u>2E-7</u> | <u>2E-8</u> <u>2E-9</u> <u>6E-10</u> | <u>7E-5</u> - - | <u>7E-4</u> - - |
| 79 | <u>Gold-198m</u> | D, see ¹⁹³ Au W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>1E+3</u> - - | <u>3E+3</u> <u>1E+3</u> <u>1E+3</u> | <u>1E-6</u> <u>5E-7</u> <u>5E-7</u> | <u>4E-9</u> <u>2E-9</u> <u>2E-9</u> | <u>1E-5</u> - - | <u>1E-4</u> - - |
| 79 | <u>Gold-198</u> | D, see ¹⁹³ Au W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>1E+3</u> - - | <u>4E+3</u> <u>2E+3</u> <u>2E+3</u> | <u>2E-6</u> <u>-7</u> <u>7E-7</u> | <u>5E-9</u> <u>3E-9</u> <u>2E-9</u> | <u>2E-5</u> - - | <u>2E-4</u> - - |
| 79 | <u>Gold-199</u> | D, see ¹⁹³ Au LLI wall (3E+3) W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>3E+3</u> <u>LLI wall</u> <u>(3E+3)</u> - - | <u>9E+3</u> - <u>4E+3</u> <u>4E+3</u> | <u>4E-6</u> - <u>2E-6</u> <u>2E-6</u> | <u>1E-8</u> - <u>6E-9</u> <u>5E-9</u> | - <u>4E-5</u> - - | - <u>4E-4</u> - - |
| 79 | <u>Gold-200m</u> | D, see ¹⁹³ Au W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>1E+3</u> - - | <u>4E+3</u> <u>3E+3</u> <u>2E+4</u> | <u>1E-6</u> <u>1E-6</u> <u>1E-6</u> | <u>5E-9</u> <u>4E-9</u> <u>3E-9</u> | <u>2E-5</u> - - | <u>2E-4</u> - - |
| 79 | <u>Gold-200²</u> | D, see ¹⁹³ Au W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>3E+4</u> - - | <u>6E+4</u> <u>8E+4</u> <u>7E+4</u> | <u>3E-5</u> <u>3E-5</u> <u>3E-5</u> | <u>9E-8</u> <u>1E-7</u> <u>1E-7</u> | <u>4E-4</u> - - | <u>4E-3</u> - - |
| 79 | <u>Gold-201²</u> | D, see ¹⁹³ Au St wall (9E+4) W, see ¹⁹³ Au Y, see ¹⁹³ Au | <u>7E+4</u> <u>St wall</u> <u>(9E+4)</u> - - | <u>2E+5</u> - <u>2E+5</u> <u>2E+5</u> | <u>9E-5</u> - <u>1E-4</u> <u>9E-5</u> | <u>3E-7</u> - <u>3E-7</u> <u>3E-7</u> | - <u>1E-3</u> - - | - <u>1E-2</u> - - |
| 80 | <u>Mercury-193m</u> | Vapor Organic D D, sulfates W, oxides, hydroxides, halides, nitrates, and sulfides | - <u>4E+3</u> <u>3E+3</u> - | <u>8E+3</u> <u>1E+4</u> <u>9E+3</u> <u>8E+3</u> | <u>4E-6</u> <u>5E-6</u> <u>4E-6</u> <u>3E-6</u> | <u>1E-8</u> <u>2E-8</u> <u>1E-8</u> <u>1E-8</u> | - <u>6E-5</u> <u>4E-5</u> - | - <u>6E-4</u> <u>4E-4</u> - |
| 80 | <u>Mercury-193</u> | Vapor Organic D D, see ^{193m} Hg W, see ^{193m} Hg | - <u>2E+4</u> <u>2E+4</u> - | <u>3E+4</u> <u>6E+4</u> <u>4E+4</u> <u>4E+4</u> | <u>1E-5</u> <u>3E-5</u> <u>2E-5</u> <u>2E-5</u> | <u>4E-8</u> <u>9E-8</u> <u>6E-8</u> <u>6E-8</u> | - <u>3E-4</u> <u>2E-4</u> - | - <u>3E-3</u> <u>2E-3</u> - |
| 80 | <u>Mercury-194</u> | Vapor Organic D D, see ^{193m} Hg W, see ^{193m} Hg | - <u>2E+1</u> <u>8E+2</u> - | <u>3E+1</u> <u>3E+1</u> <u>4E+1</u> <u>1E+2</u> | <u>1E-8</u> <u>1E-8</u> <u>2E-8</u> <u>5E-8</u> | <u>4E-11</u> <u>4E-11</u> <u>6E-11</u> <u>2E-10</u> | - <u>2E-7</u> <u>1E-5</u> - | - <u>2E-6</u> <u>1E-4</u> - |
| 80 | <u>Mercury-195m</u> | Vapor Organic D D, see ^{193m} Hg W, see ^{193m} Hg | - <u>3E+3</u> <u>2E+3</u> - | <u>4E+3</u> <u>6E+3</u> <u>5E+3</u> <u>4E+3</u> | <u>2E-6</u> <u>3E-6</u> <u>2E-6</u> <u>2E-6</u> | <u>6E-9</u> <u>8E-9</u> <u>7E-9</u> <u>5E-9</u> | - <u>4E-5</u> <u>3E-5</u> - | - <u>4E-4</u> <u>3E-4</u> - |
| 80 | <u>Mercury-195</u> | Vapor Organic D D, see ^{193m} Hg W, see ^{193m} Hg | - <u>2E+4</u> <u>1E+4</u> - | <u>3E+4</u> <u>5E+4</u> <u>4E+4</u> <u>3E+4</u> | <u>1E-5</u> <u>2E-5</u> <u>1E-5</u> <u>1E-5</u> | <u>4E-8</u> <u>6E-8</u> <u>5E-8</u> <u>5E-8</u> | - <u>2E-4</u> <u>2E-4</u> - | - <u>2E-3</u> <u>2E-3</u> - |
| 80 | <u>Mercury-197m</u> | Vapor Organic D D, see ^{193m} Hg W, see ^{193m} Hg | - <u>4E+3</u> <u>3E+3</u> - | <u>5E+3</u> <u>9E+3</u> <u>7E+3</u> <u>5E+3</u> | <u>2E-6</u> <u>4E-6</u> <u>3E-6</u> <u>2E-6</u> | <u>7E-9</u> <u>1E-8</u> <u>1E-8</u> <u>7E-9</u> | - <u>5E-5</u> <u>4E-5</u> - | - <u>5E-4</u> <u>4E-4</u> - |

| | | | | | | | | |
|----|----------------------------------|---------------------------------|------------------|------------------|--------------|--------------|-------------|-------------|
| 80 | <u>Mercury-197</u> | <u>Vapor</u> | - | 8E+3 | 4E-6 | 1E-8 | - | - |
| | | <u>Organic D</u> | <u>7E+3</u> | <u>1E+4</u> | <u>6E-6</u> | <u>2E-8</u> | <u>9E-5</u> | <u>9E-4</u> |
| | | <u>D, see ^{193m}Hg</u> | <u>6E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>8E-5</u> | <u>8E-4</u> |
| | | <u>W, see ^{193m}Hg</u> | - | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | - | - |
| 80 | <u>Mercury-199m²</u> | <u>Vapor</u> | - | 8E+4 | 3E-5 | 1E-7 | - | - |
| | | <u>Organic D</u> | <u>6E+4</u> | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| | | | <u>St wall</u> | - | - | - | 1E-3 | 1E-2 |
| | | | <u>(1E+5)</u> | - | - | - | <u>8E-4</u> | <u>8E-3</u> |
| | | <u>D, see ^{193m}Hg</u> | <u>6E+4</u> | <u>1E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | <u>W, see ^{193m}Hg</u> | - | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| 80 | <u>Mercury-203</u> | <u>Vapor</u> | - | 8E+2 | 4E-7 | 1E-9 | - | - |
| | | <u>Organic D</u> | <u>5E+2</u> | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | <u>7E-6</u> | <u>7E-5</u> |
| | | <u>D, see ^{193m}Hg</u> | <u>2E+3</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | <u>W, see ^{193m}Hg</u> | - | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | - | - |
| 81 | <u>Thallium-194m²</u> | <u>D, all compounds</u> | <u>5E+4</u> | <u>2E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | | <u>St wall</u> | - | - | - | 1E-3 | 1E-2 |
| | | | <u>(7E+4)</u> | - | - | - | - | - |
| 81 | <u>Thallium-194²</u> | <u>D, all compounds</u> | <u>3E+5</u> | <u>6E+5</u> | <u>2E-4</u> | <u>8E-7</u> | - | - |
| | | | <u>St wall</u> | - | - | - | 4E-3 | 4E-2 |
| | | | <u>(3E+5)</u> | - | - | - | - | - |
| 81 | <u>Thallium-195²</u> | <u>D, all compounds</u> | <u>6E+4</u> | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | <u>9E-4</u> | <u>9E-3</u> |
| 81 | <u>Thallium-197</u> | <u>D, all compounds</u> | <u>7E+4</u> | <u>1E+5</u> | <u>5E-5</u> | <u>2E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| 81 | <u>Thallium-198m²</u> | <u>D, all compounds</u> | <u>3E+4</u> | <u>5E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>4E-4</u> | <u>4E-3</u> |
| 81 | <u>Thallium-198</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>3E+4</u> | <u>1E-5</u> | <u>5E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| 81 | <u>Thallium-199</u> | <u>D, all compounds</u> | <u>6E+4</u> | <u>8E+4</u> | <u>4E-5</u> | <u>1E-7</u> | <u>9E-4</u> | <u>9E-3</u> |
| 81 | <u>Thallium-200</u> | <u>D, all compounds</u> | <u>8E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 81 | <u>Thallium-201</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>2E+4</u> | <u>9E-6</u> | <u>3E-8</u> | <u>2E-4</u> | <u>2E-3</u> |
| 81 | <u>Thallium-202</u> | <u>D, all compounds</u> | <u>4E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>7E-9</u> | <u>5E-5</u> | <u>5E-4</u> |
| 81 | <u>Thallium-204</u> | <u>D, all compounds</u> | <u>2E+3</u> | <u>2E+3</u> | <u>9E-7</u> | <u>3E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| 82 | <u>Lead-195m²</u> | <u>D, all compounds</u> | <u>6E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | <u>8E-4</u> | <u>8E-3</u> |
| 82 | <u>Lead-198</u> | <u>D, all compounds</u> | <u>3E+4</u> | <u>6E+4</u> | <u>3E-5</u> | <u>9E-8</u> | <u>4E-4</u> | <u>4E-3</u> |
| 82 | <u>Lead-199²</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>7E+4</u> | <u>3E-5</u> | <u>1E-7</u> | <u>3E-4</u> | <u>3E-3</u> |
| 82 | <u>Lead-200</u> | <u>D, all compounds</u> | <u>3E+3</u> | <u>6E+3</u> | <u>3E-6</u> | <u>9E-9</u> | <u>4E-5</u> | <u>4E-4</u> |
| 82 | <u>Lead-201</u> | <u>D, all compounds</u> | <u>7E+3</u> | <u>2E+4</u> | <u>8E-6</u> | <u>3E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 82 | <u>Lead-202m</u> | <u>D, all compounds</u> | <u>9E+3</u> | <u>3E+4</u> | <u>1E-5</u> | <u>4E-8</u> | <u>1E-4</u> | <u>1E-3</u> |
| 82 | <u>Lead-202</u> | <u>D, all compounds</u> | <u>1E+2</u> | <u>5E+1</u> | <u>2E-8</u> | <u>7E-11</u> | <u>2E-6</u> | <u>2E-5</u> |
| 82 | <u>Lead-203</u> | <u>D, all compounds</u> | <u>5E+3</u> | <u>9E+3</u> | <u>4E-6</u> | <u>1E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| 82 | <u>Lead-205</u> | <u>D, all compounds</u> | <u>4E+3</u> | <u>1E+3</u> | <u>6E-7</u> | <u>2E-9</u> | <u>5E-5</u> | <u>5E-4</u> |
| 82 | <u>Lead-209</u> | <u>D, all compounds</u> | <u>2E+4</u> | <u>6E+4</u> | <u>2E-5</u> | <u>8E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| 82 | <u>Lead-210</u> | <u>D, all compounds</u> | <u>6E-1</u> | <u>2E-1</u> | <u>1E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | - | - | - |
| | | | <u>(1E+0)</u> | <u>(4E-1)</u> | - | 6E-13 | 1E-8 | 1E-7 |
| 82 | <u>Lead-211²</u> | <u>D, all compounds</u> | <u>1E+4</u> | <u>6E+2</u> | <u>3E-7</u> | <u>9E-10</u> | <u>2E-4</u> | <u>2E-3</u> |
| 82 | <u>Lead-212</u> | <u>D, all compounds</u> | <u>8E+1</u> | <u>3E+1</u> | <u>1E-8</u> | <u>5E-11</u> | - | - |
| | | | <u>Bone surf</u> | - | - | - | 2E-6 | 2E-5 |
| | | | <u>(1E+2)</u> | - | - | - | - | - |
| 82 | <u>Lead-214²</u> | <u>D, all compounds</u> | <u>9E+3</u> | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | <u>1E-4</u> | <u>1E-3</u> |

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|----|---------------------------------|--|---------------------------------|---|----------------------------------|--|-----------------------|-----------------------|
| 83 | <u>Bismuth-200²</u> | D, nitrates W, all other compounds | <u>3E+4</u> - | <u>8E+4</u> <u>1E+5</u> | <u>4E-5</u> <u>4E-5</u> | <u>1E-7</u> <u>1E-7</u> | <u>4E-4</u> - | <u>4E-3</u> - |
| 83 | <u>Bismuth-201²</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>1E+4</u> - | <u>3E+4</u> <u>4E+4</u> | <u>1E-5</u> <u>2E-5</u> | <u>4E-8</u> <u>5E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 83 | <u>Bismuth-202²</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>1E+4</u> - | <u>4E+4</u> <u>8E+4</u> | <u>2E-5</u> <u>3E-5</u> | <u>6E-8</u> <u>1E-7</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 83 | <u>Bismuth-203</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>2E+3</u> - | <u>7E+3</u> <u>6E+3</u> | <u>3E-6</u> <u>3E-6</u> | <u>9E-9</u> <u>9E-9</u> | <u>3E-5</u> - | <u>3E-4</u> - |
| 83 | <u>Bismuth-205</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>1E+3</u> - | <u>3E+3</u> <u>1E+3</u> | <u>1E-6</u> <u>5E-7</u> | <u>3E-9</u> <u>2E-9</u> | <u>2E-5</u> - | <u>2E-4</u> - |
| 83 | <u>Bismuth-206</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>6E+2</u> - | <u>1E+3</u> <u>9E+2</u> | <u>6E-7</u> <u>4E-7</u> | <u>2E-9</u> <u>1E-9</u> | <u>9E-6</u> - | <u>9E-5</u> - |
| 83 | <u>Bismuth-207</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>1E+3</u> - | <u>2E+3</u> <u>4E+2</u> | <u>7E-7</u> <u>1E-7</u> | <u>2E-9</u> <u>5E-10</u> | <u>1E-5</u> - | <u>1E-4</u> - |
| 83 | <u>Bismuth-210m</u> | D, see ²⁰⁰ Bi Kidneys (6E+1) W, see ²⁰⁰ Bi | <u>4E+1</u> <u>6E+1</u> - | <u>5E+0</u> <u>6E+0</u> <u>7E-1</u> | <u>2E-9</u> - <u>3E-10</u> | - <u>9E-12</u> <u>9E-13</u> | - <u>8E-7</u> - | - <u>8E-6</u> - |
| 83 | <u>Bismuth-210</u> | D, see ²⁰⁰ Bi Kidneys (4E+2) W, see ²⁰⁰ Bi | <u>8E+2</u> - - | <u>2E+2</u> <u>4E+2</u> <u>3E+1</u> | <u>1E-7</u> - <u>1E-8</u> | - <u>5E-10</u> <u>4E-11</u> | - - - | - - - |
| 83 | <u>Bismuth-212²</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>5E+3</u> - | <u>2E+2</u> <u>3E+2</u> | <u>1E-7</u> <u>1E-7</u> | <u>3E-10</u> <u>4E-10</u> | <u>7E-5</u> - | <u>7E-4</u> - |
| 83 | <u>Bismuth-213²</u> | D, see ²⁰⁰ Bi W, see ²⁰⁰ Bi | <u>7E+3</u> - | <u>3E+2</u> <u>4E+2</u> | <u>1E-7</u> <u>1E-7</u> | <u>4E-10</u> <u>5E-10</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 83 | <u>Bismuth-214²</u> | D, see ²⁰⁰ Bi St wall (2E+4) W, see ²⁰⁰ Bi | <u>2E+4</u> <u>2E+4</u> - | <u>8E+2</u> - <u>9E-2</u> | <u>3E-7</u> - <u>4E-7</u> | <u>1E-9</u> - <u>1E-9</u> | - <u>3E-4</u> - | - <u>3E-3</u> - |
| 84 | <u>Polonium-203²</u> | D, all compounds except those given for W W, oxides, hydroxides, and nitrates | <u>3E+4</u> - | <u>6E+4</u> <u>9E+4</u> | <u>3E-5</u> <u>4E-5</u> | <u>9E-8</u> <u>1E-7</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 84 | <u>Polonium-205²</u> | D, see ²⁰³ Po W, see ²⁰³ Po | <u>2E+4</u> - | <u>4E+4</u> <u>7E+4</u> | <u>2E-5</u> <u>3E-5</u> | <u>5E-8</u> <u>1E-7</u> | <u>3E-4</u> - | <u>3E-3</u> - |
| 84 | <u>Polonium-207</u> | D, see ²⁰³ Po W, see ²⁰³ Po | <u>8E+3</u> - | <u>3E+4</u> <u>3E+4</u> | <u>1E-5</u> <u>1E-5</u> | <u>3E-8</u> <u>4E-8</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 84 | <u>Polonium-210</u> | D, see ²⁰³ Po W, see ²⁰³ Po | <u>3E+0</u> - | <u>6E-1</u> <u>6E-1</u> | <u>3E-10</u> <u>3E-10</u> | <u>9E-13</u> <u>9E-13</u> | <u>4E-8</u> - | <u>4E-7</u> - |
| 85 | <u>Astatine-207²</u> | D, halides W | <u>6E+3</u> - | <u>3E+3</u> <u>2E+3</u> | <u>1E-6</u> <u>9E-7</u> | <u>4E-9</u> <u>3E-9</u> | <u>8E-5</u> - | <u>8E-4</u> - |
| 85 | <u>Astatine-211</u> | D, halides W | <u>1E+2</u> - | <u>8E+1</u> <u>5E+1</u> | <u>3E-8</u> <u>2E-8</u> | <u>1E-10</u> <u>8E-11</u> | <u>2E-6</u> - | <u>2E-5</u> - |
| 86 | <u>Radon-220</u> | With daughters removed With daughters present | - - | <u>2E+4</u> <u>2E+1</u> (or 12 working level months) | <u>7E-6</u> <u>9E-9</u> | <u>2E-8</u> <u>3E-11</u> (or 1.0 working level) | - - | - - |
| 86 | <u>Radon-222</u> | With daughters removed With daughters present | - - | <u>1E+4</u> <u>1E+2</u> (or 4 working level months) | <u>4E-6</u> <u>3E-8</u> | <u>1E-8</u> <u>1E-10</u> (or 0.33 working level) | - - | - - |

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|----|---------------------------------|--|------------------|------------------|--------------|--------------|-------------|-------------|
| 87 | <u>Francium-222²</u> | <u>D, all compounds</u> | <u>2E+3</u> | <u>5E+2</u> | <u>2E-7</u> | <u>6E-10</u> | <u>3E-5</u> | <u>3E-4</u> |
| 87 | <u>Francium-223²</u> | <u>D, all compounds</u> | <u>6E+2</u> | <u>8E+2</u> | <u>3E-7</u> | <u>1E-9</u> | <u>8E-6</u> | <u>8E-5</u> |
| 88 | <u>Radium-223</u> | <u>W, all compounds</u> | <u>5E+0</u> | <u>7E-1</u> | <u>3E-10</u> | <u>9E-13</u> | - | - |
| | | | <u>Bone surf</u> | | | | | |
| | | | <u>(9E+0)</u> | - | - | - | <u>1E-7</u> | <u>1E-6</u> |
| 88 | <u>Radium-224</u> | <u>W, all compounds</u> | <u>8E+0</u> | <u>2E+0</u> | <u>7E-10</u> | <u>2E-12</u> | - | - |
| | | | <u>Bone surf</u> | | | | | |
| | | | <u>(2E+1)</u> | - | - | - | <u>2E-7</u> | <u>2E-6</u> |
| 88 | <u>Radium-225</u> | <u>W, all compounds</u> | <u>8E+0</u> | <u>7E-1</u> | <u>3E-10</u> | <u>9E-13</u> | - | - |
| | | | <u>Bone surf</u> | | | | | |
| | | | <u>(2E+1)</u> | - | - | - | <u>2E-7</u> | <u>2E-6</u> |
| 88 | <u>Radium-226</u> | <u>W, all compounds</u> | <u>2E+0</u> | <u>6E-1</u> | <u>3E-10</u> | <u>9E-13</u> | - | - |
| | | | <u>Bone surf</u> | | | | | |
| | | | <u>(5E+0)</u> | - | - | - | <u>6E-8</u> | <u>6E-7</u> |
| 88 | <u>Radium-227²</u> | <u>W, all compounds</u> | <u>2E+4</u> | <u>1E+4</u> | <u>6E-6</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(2E+4)*</u> | <u>(2E+4)</u> | - | <u>3E-8</u> | <u>3E-4</u> | <u>3E-3</u> |
| 88 | <u>Radium-228</u> | <u>W, all compounds</u> | <u>2E+0</u> | <u>1E+0</u> | <u>5E-10</u> | <u>2E-12</u> | - | - |
| | | | <u>Bone surf</u> | | | | | |
| | | | <u>(4E+0)</u> | - | - | - | <u>6E-8</u> | <u>6E-7</u> |
| 89 | <u>Actinium-224</u> | <u>D, all compounds except</u> <u>those given for W and Y</u> | <u>2E+3</u> | <u>3E+1</u> | <u>1E-8</u> | - | - | - |
| | | | <u>LLI wall</u> | <u>Bone surf</u> | | | | |
| | | | <u>(2E+3)</u> | <u>(4E+1)</u> | - | <u>5E-11</u> | <u>3E-5</u> | <u>3E-4</u> |
| | | <u>W, halides and nitrates</u> | - | <u>5E+1</u> | <u>2E-8</u> | <u>7E-11</u> | - | - |
| | | <u>Y, oxides and hydroxides</u> | - | <u>5E+1</u> | <u>2E-8</u> | <u>6E-11</u> | - | - |
| 89 | <u>Actinium-225</u> | <u>D, see ²²⁴Ac</u> | <u>5E+1</u> | <u>3E-1</u> | <u>1E-10</u> | - | - | - |
| | | | <u>LLI wall</u> | <u>Bone surf</u> | | | | |
| | | | <u>(5E+1)</u> | <u>(5E-1)</u> | - | <u>7E-13</u> | <u>7E-7</u> | <u>7E-6</u> |
| | | <u>W, see ²²⁴Ac</u> | - | <u>6E-1</u> | <u>3E-10</u> | <u>9E-13</u> | - | - |
| | | <u>Y, see ²²⁴Ac</u> | - | <u>6E-1</u> | <u>3E-10</u> | <u>9E-13</u> | - | - |
| 89 | <u>Actinium-226</u> | <u>D, see ²²⁴Ac</u> | <u>1E+2</u> | <u>3E+0</u> | <u>1E-9</u> | - | - | - |
| | | | <u>LLI wall</u> | <u>Bone surf</u> | | | | |
| | | | <u>(1E+2)</u> | <u>(4E+0)</u> | - | <u>5E-12</u> | <u>2E-6</u> | <u>2E-5</u> |
| | | <u>W, see ²²⁴Ac</u> | - | <u>5E+0</u> | <u>2E-9</u> | <u>7E-12</u> | - | - |
| | | <u>Y, see ²²⁴Ac</u> | - | <u>5E+0</u> | <u>2E-9</u> | <u>6E-12</u> | - | - |
| 89 | <u>Actinium-227</u> | <u>D, see ²²⁴Ac</u> | <u>2E-1</u> | <u>4E-4</u> | <u>2E-13</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(4E-1)</u> | <u>(8E-4)</u> | - | <u>1E-15</u> | <u>5E-9</u> | <u>5E-8</u> |
| | | <u>W, see ²²⁴Ac</u> | - | <u>2E-3</u> | <u>7E-13</u> | - | - | - |
| | | | | <u>Bone surf</u> | | | | |
| | | | | <u>(3E-3)</u> | - | <u>4E-15</u> | - | - |
| | | <u>Y, see ²²⁴Ac</u> | - | <u>4E-3</u> | <u>2E-12</u> | <u>6E-15</u> | - | - |
| 89 | <u>Actinium-228</u> | <u>D, see ²²⁴Ac</u> | <u>2E+3</u> | <u>9E+0</u> | <u>4E-9</u> | - | <u>3E-5</u> | <u>3E-4</u> |
| | | | | <u>Bone surf</u> | | | | |
| | | | | <u>(2E+1)</u> | - | <u>2E-11</u> | - | - |
| | | <u>W, see ²²⁴Ac</u> | - | <u>4E+1</u> | <u>2E-8</u> | - | - | - |
| | | | | <u>Bone surf</u> | | | | |
| | | | | <u>(6E+1)</u> | - | <u>8E-11</u> | - | - |
| | | <u>Y, see ²²⁴Ac</u> | - | <u>4E+1</u> | <u>2E-8</u> | <u>6E-11</u> | - | - |
| 90 | <u>Thorium-226²</u> | <u>W, all compounds except</u> <u>those given for Y</u> | <u>5E+3</u> | <u>2E+2</u> | <u>6E-8</u> | <u>2E-10</u> | - | - |
| | | | <u>St wall</u> | | | | | |
| | | | <u>(5E+3)</u> | - | - | - | <u>7E-5</u> | <u>7E-4</u> |
| | | <u>Y, oxides and hydroxides</u> | - | <u>1E+2</u> | <u>6E-8</u> | <u>2E-10</u> | - | - |
| 90 | <u>Thorium-227</u> | <u>W, see ²²⁶Th</u> | <u>1E+2</u> | <u>3E-1</u> | <u>1E-10</u> | <u>5E-13</u> | <u>2E-6</u> | <u>2E-5</u> |
| | | <u>Y, see ²²⁶Th</u> | - | <u>3E-1</u> | <u>1E-10</u> | <u>5E-13</u> | - | - |
| 90 | <u>Thorium-228</u> | <u>W, see ²²⁶Th</u> | <u>6E+0</u> | <u>1E-2</u> | <u>4E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(1E+1)</u> | <u>(2E-2)</u> | - | <u>3E-14</u> | <u>2E-7</u> | <u>2E-6</u> |
| | | <u>Y, see ²²⁶Th</u> | - | <u>2E-2</u> | <u>7E-12</u> | <u>2E-14</u> | - | - |

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|----|-------------------------------------|---|--|--|------------------------------|--|------------------|------------------|
| 90 | <u>Thorium-229</u> | <u>W, see ²²⁶Th</u> | <u>6E-1</u> <u>Bone surf</u> <u>(1E+0)</u> | <u>9E-4</u> <u>Bone surf</u> <u>(2E-3)</u> | <u>4E-13</u> - | - | - | - |
| | | <u>Y, see ²²⁶Th</u> | - | <u>2E-3</u> <u>Bone surf</u> <u>(3E-3)</u> | <u>1E-12</u> - | <u>3E-15</u> - | <u>2E-8</u> - | <u>2E-7</u> - |
| 90 | <u>Thorium-230</u> | <u>W, see ²²⁶Th</u> | <u>4E+0</u> <u>Bone surf</u> <u>(9E+0)</u> | <u>6E-3</u> <u>Bone surf</u> <u>(2E-2)</u> | <u>3E-12</u> - | - | - | - |
| | | <u>Y, see ²²⁶Th</u> | - | <u>2E-2</u> <u>Bone surf</u> <u>(2E-2)</u> | <u>6E-12</u> - | <u>2E-14</u> - | <u>1E-7</u> - | <u>1E-6</u> - |
| 90 | <u>Thorium-231</u> | <u>W, see ²²⁶Th</u> <u>Y, see ²²⁶Th</u> | <u>4E+3</u> - | <u>6E+3</u> <u>6E+3</u> | <u>3E-6</u> <u>3E-6</u> | <u>9E-9</u> <u>9E-9</u> | <u>5E-5</u> - | <u>5E-4</u> - |
| 90 | <u>Thorium-232</u> | <u>W, see ²²⁶Th</u> | <u>7E-1</u> <u>Bone surf</u> <u>(2E+0)</u> | <u>1E-3</u> <u>Bone surf</u> <u>(3E-3)</u> | <u>5E-13</u> - | - | - | - |
| | | <u>Y, see ²²⁶Th</u> | - | <u>3E-3</u> <u>Bone surf</u> <u>(4E-3)</u> | <u>1E-12</u> - | <u>4E-15</u> - | <u>3E-8</u> - | <u>3E-7</u> - |
| 90 | <u>Thorium-234</u> | <u>W, see ²²⁶Th</u> | <u>3E+2</u> <u>LLI wall</u> <u>(4E+2)</u> | <u>2E+2</u> - | <u>8E-8</u> - | <u>3E-10</u> - | - | - |
| | | <u>Y, see ²²⁶Th</u> | - | <u>2E+2</u> - | <u>6E-8</u> - | <u>2E-10</u> - | <u>5E-6</u> - | <u>5E-5</u> - |
| 91 | <u>Protactinium-227²</u> | <u>W, all compounds except those given for Y</u> <u>Y, oxides and hydroxides</u> | <u>4E+3</u> - | <u>1E+2</u> <u>1E+2</u> | <u>5E-8</u> <u>4E-8</u> | <u>2E-10</u> <u>1E-10</u> | <u>5E-5</u> - | <u>5E-4</u> - |
| | | <u>W, see ²²⁷Pa</u> | <u>1E+3</u> - | <u>1E+1</u> <u>Bone surf</u> <u>(2E+1)</u> | <u>5E-9</u> - | - | <u>2E-5</u> - | <u>2E-4</u> - |
| 91 | <u>Protactinium-228</u> | <u>Y, see ²²⁷Pa</u> | - | <u>1E+1</u> - | <u>E-9</u> - | <u>3E-11</u> <u>2E-11</u> | - | - |
| | | <u>W, see ²²⁷Pa</u> | <u>6E+2</u> <u>Bone surf</u> <u>(9E+2)</u> | <u>5E+0</u> - | <u>2E-9</u> - | <u>7E-12</u> - | - | - |
| 91 | <u>Protactinium-230</u> | <u>Y, see ²²⁷Pa</u> | - | <u>4E+0</u> - | <u>1E-9</u> - | <u>5E-12</u> - | <u>1E-5</u> - | <u>1E-4</u> - |
| | | <u>W, see ²²⁷Pa</u> | <u>2E-1</u> <u>Bone surf</u> <u>(3E-1)</u> | <u>2E-3</u> <u>Bone surf</u> <u>(4E-3)</u> | <u>6E-13</u> - | - | - | - |
| 91 | <u>Protactinium-231</u> | <u>Y, see ²²⁷Pa</u> | - | <u>4E-3</u> <u>Bone surf</u> <u>(6E-3)</u> | <u>2E-12</u> - | <u>6E-15</u> - | <u>6E-9</u> - | <u>6E-8</u> - |
| | | <u>W, see ²²⁷Pa</u> | <u>1E+3</u> - | <u>2E+1</u> <u>Bone surf</u> <u>(6E+1)</u> | <u>9E-9</u> - | - | <u>2E-5</u> - | <u>2E-4</u> - |
| 91 | <u>Protactinium-232</u> | <u>Y, see ²²⁷Pa</u> | - | <u>6E+1</u> <u>Bone surf</u> <u>(7E+1)</u> | <u>2E-8</u> - | <u>8E-11</u> - | - | - |
| | | <u>W, see ²²⁷Pa</u> | <u>1E+3</u> <u>LLI wall</u> <u>(2E+3)</u> | <u>7E+2</u> - | <u>3E-7</u> - | <u>1E-9</u> - | - | - |
| 91 | <u>Protactinium-233</u> | <u>Y, see ²²⁷Pa</u> | - | <u>6E+2</u> - | <u>2E-7</u> - | <u>8E-10</u> - | <u>2E-5</u> - | <u>2E-4</u> - |
| | | <u>W, see ²²⁷Pa</u> <u>Y, see ²²⁷Pa</u> | <u>2E+3</u> - | <u>8E+3</u> <u>7E+3</u> | <u>3E-6</u> <u>3E-6</u> | <u>1E-8</u> <u>9E-9</u> | <u>3E-5</u> - | <u>3E-4</u> - |
| 92 | <u>Uranium-230</u> | <u>D, UF₆, UO₂F₂, UO₂(NO₃)₂</u> | <u>4E+0</u> <u>Bone surf</u> <u>(6E+0)</u> | <u>4E-1</u> <u>Bone surf</u> <u>(6E-1)</u> | <u>2E-10</u> - | - | - | - |
| | | <u>W, UO₃, UF₄, UCl₄</u> <u>Y, UO₂, U₃O₈</u> | - | <u>4E-1</u> <u>3E-1</u> | <u>1E-10</u> <u>1E-10</u> | <u>8E-13</u> <u>5E-13</u> <u>4E-13</u> | <u>8E-8</u> - | <u>8E-7</u> - |
| 92 | <u>Uranium-231</u> | <u>D, see ²³⁰U</u> | <u>5E+3</u> <u>LLI wall</u> <u>(4E+3)</u> | <u>8E+3</u> - | <u>3E-6</u> - | <u>1E-8</u> - | - | - |
| | | <u>W, see ²³⁰U</u> <u>Y, see ²³⁰U</u> | - | <u>6E+3</u> <u>5E+3</u> | <u>2E-6</u> <u>2E-6</u> | <u>8E-9</u> <u>6E-9</u> | <u>6E-5</u> - | <u>6E-4</u> - |

| | | | | | | | | |
|----|--|-------------------------------|------------------|------------------|--------------|--------------|-------------|-------------|
| 92 | <u>Uranium-232</u> | <u>D, see ²³⁰U</u> | <u>2E+0</u> | <u>2E-1</u> | <u>9E-11</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>6E-13</u> | <u>6E-8</u> | <u>6E-7</u> |
| | | | <u>(4E+0)</u> | <u>(4E-1)</u> | - | <u>5E-13</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>4E-1</u> | <u>2E-10</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>8E-3</u> | <u>3E-12</u> | - | - | - |
| 92 | <u>Uranium-233</u> | <u>D, see ²³⁰U</u> | <u>1E+1</u> | <u>1E+0</u> | <u>5E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>3E-12</u> | <u>3E-7</u> | <u>3E-6</u> |
| | | | <u>(2E+1)</u> | <u>(2E+0)</u> | - | <u>1E-12</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>7E-1</u> | <u>3E-10</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>4E-2</u> | <u>2E-11</u> | - | - | - |
| 92 | <u>Uranium-234³</u> | <u>D, see ²³⁰U</u> | <u>1E+1</u> | <u>1E+0</u> | <u>5E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>3E-12</u> | <u>3E-7</u> | <u>3E-6</u> |
| | | | <u>(2E+1)</u> | <u>(2E+0)</u> | - | <u>1E-12</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>7E-1</u> | <u>3E-10</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>4E-2</u> | <u>2E-11</u> | - | - | - |
| 92 | <u>Uranium-235³</u> | <u>D, see ²³⁰U</u> | <u>1E+1</u> | <u>1E+0</u> | <u>6E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>3E-12</u> | <u>3E-7</u> | <u>3E-6</u> |
| | | | <u>(2E+1)</u> | <u>(2E+0)</u> | - | <u>1E-12</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>8E-1</u> | <u>3E-10</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>4E-2</u> | <u>2E-11</u> | - | - | - |
| 92 | <u>Uranium-236</u> | <u>D, see ²³⁰U</u> | <u>1E+1</u> | <u>1E+0</u> | <u>5E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>3E-12</u> | <u>3E-7</u> | <u>3E-6</u> |
| | | | <u>(2E+1)</u> | <u>(2E+0)</u> | - | <u>1E-12</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>8E-1</u> | <u>3E-10</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>4E-2</u> | <u>2E-11</u> | - | - | - |
| 92 | <u>Uranium-237</u> | <u>D, see ²³⁰U</u> | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| | | | <u>LLI wall</u> | - | - | - | <u>3E-5</u> | <u>3E-4</u> |
| | | | <u>(2E+3)</u> | - | - | - | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>2E+3</u> | <u>7E-7</u> | <u>2E-9</u> | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>2E+3</u> | <u>6E-7</u> | <u>2E-9</u> | - | - |
| 92 | <u>Uranium-238³</u> | <u>D, see ²³⁰U</u> | <u>1E+1</u> | <u>1E+0</u> | <u>6E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>3E-12</u> | <u>3E-7</u> | <u>3E-6</u> |
| | | | <u>(2E+1)</u> | <u>(2E+0)</u> | - | <u>1E-12</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>8E-1</u> | <u>3E-10</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>4E-2</u> | <u>2E-11</u> | <u>6E-14</u> | - | - |
| 92 | <u>Uranium-239²</u> | <u>D, see ²³⁰U</u> | <u>7E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | <u>9E-4</u> | <u>9E-3</u> |
| | | | - | <u>2E+5</u> | <u>7E-5</u> | <u>2E-7</u> | - | - |
| | | | - | <u>2E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>2E+5</u> | <u>7E-5</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>2E+5</u> | <u>6E-5</u> | <u>2E-7</u> | - | - |
| 92 | <u>Uranium-240</u> | <u>D, see ²³⁰U</u> | <u>1E+3</u> | <u>4E+3</u> | <u>2E-6</u> | <u>5E-9</u> | <u>2E-5</u> | <u>2E-4</u> |
| | | | - | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | - | - |
| | | | - | <u>2E+3</u> | <u>1E-6</u> | <u>3E-9</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>3E+3</u> | <u>1E-6</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>2E+3</u> | <u>1E-6</u> | <u>3E-9</u> | - | - |
| 92 | <u>Uranium-natural³</u> | <u>D, see ²³⁰U</u> | <u>1E+1</u> | <u>1E+0</u> | <u>5E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>3E-12</u> | <u>3E-7</u> | <u>3E-6</u> |
| | | | <u>(2E+1)</u> | <u>(2E+0)</u> | - | <u>9E-13</u> | - | - |
| | | <u>W, see ²³⁰U</u> | - | <u>8E-1</u> | <u>3E-10</u> | - | - | - |
| | | <u>Y, see ²³⁰U</u> | - | <u>5E-2</u> | <u>2E-11</u> | <u>9E-14</u> | - | - |
| 93 | <u>Neptunium-232²</u> | <u>W, all compounds</u> | <u>1E+5</u> | <u>2E+3</u> | <u>7E-7</u> | - | <u>2E-3</u> | <u>2E-2</u> |
| | | | - | <u>Bone surf</u> | - | <u>6E-9</u> | - | - |
| | | | - | <u>(5E+2)</u> | - | - | - | |
| 93 | <u>Neptunium-233²</u> | <u>W, all compounds</u> | <u>8E+5</u> | <u>3E+6</u> | <u>1E-3</u> | <u>4E-6</u> | <u>1E-2</u> | <u>1E-1</u> |
| 93 | <u>Neptunium-234</u> | <u>W, all compounds</u> | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| 93 | <u>Neptunium-235</u> | <u>W, all compounds</u> | <u>2E+4</u> | <u>8E+2</u> | <u>3E-7</u> | - | - | - |
| | | | <u>LLI wall</u> | <u>Bone surf</u> | - | <u>2E-9</u> | <u>3E-4</u> | <u>3E-3</u> |
| | | | <u>(2E+4)</u> | <u>(1E+3)</u> | - | - | - | |
| 93 | <u>Neptunium-236</u> <u>(1.15E+5 y)</u> | <u>W, all compounds</u> | <u>3E+0</u> | <u>2E-2</u> | <u>9E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | - | <u>8E-14</u> | <u>9E-8</u> | <u>9E-7</u> |
| | | | <u>(6E+0)</u> | <u>(5E-2)</u> | - | - | - | |
| 93 | <u>Neptunium-236</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>3E+1</u> | <u>1E-8</u> | - | - | - |

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| | <u>(22.5 h)</u> | | <u>Bone surf</u> <u>(4E+3)</u> | <u>Bone surf</u> <u>(7E+1)</u> | | <u>1E-10</u> | <u>5E-5</u> | <u>5E-4</u> |
|----|----------------------------------|---|---|--|--|-----------------------------------|-----------------------|----------------------------|
| 93 | <u>Neptunium-237</u> | <u>W, all compounds</u> | <u>5E-1</u> <u>Bone surf</u> <u>(1E+0)</u> | <u>4E-3</u> <u>Bone surf</u> <u>(1E-2)</u> | <u>2E-12</u> - | - | - | - |
| 93 | <u>Neptunium-238</u> | <u>W, all compounds</u> | <u>1E+3</u> - | <u>6E+1</u> <u>Bone surf</u> <u>(2E+2)</u> | <u>3E-8</u> - | - | <u>2E-5</u> | <u>2E-4</u> |
| 93 | <u>Neptunium-239</u> | <u>W, all compounds</u> | <u>2E+3</u> <u>LLI wall</u> <u>(2E+3)</u> | <u>2E+3</u> - | <u>9E-7</u> - | <u>3E-9</u> - | - | <u>2E-5</u> <u>2E-4</u> |
| 93 | <u>Neptunium-240²</u> | <u>W, all compounds</u> | <u>2E+4</u> | <u>8E+4</u> | <u>3E-5</u> | <u>1E-7</u> | <u>3E-4</u> | <u>3E-3</u> |
| 94 | <u>Plutonium-234</u> | <u>W, all compounds</u> <u>except PuO₂</u> <u>Y, PuO₂</u> | <u>8E+3</u> - | <u>2E+2</u> <u>2E+2</u> | <u>9E-8</u> <u>8E-8</u> | <u>3E-10</u> <u>3E-10</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 94 | <u>Plutonium-235²</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>9E+5</u> - | <u>3E+6</u> <u>3E+6</u> | <u>1E-3</u> <u>1E-3</u> | <u>4E-6</u> <u>3E-6</u> | <u>1E-2</u> - | <u>1E-1</u> - |
| 94 | <u>Plutonium-236</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>2E+0</u> <u>Bone surf</u> <u>(4E+0)</u> - | <u>2E-2</u> <u>Bone surf</u> <u>(4E-2)</u> <u>4E-2</u> | <u>8E-12</u> - <u>2E-11</u> | - <u>5E-14</u> <u>6E-14</u> | - <u>6E-8</u> - | - <u>6E-7</u> - |
| 94 | <u>Plutonium-237</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>1E+4</u> - | <u>3E+3</u> <u>3E+3</u> | <u>1E-6</u> <u>1E-6</u> | <u>5E-9</u> <u>4E-9</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 94 | <u>Plutonium-238</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>9E-1</u> <u>Bone surf</u> <u>(2E+0)</u> - | <u>7E-3</u> <u>Bone surf</u> <u>(1E-2)</u> <u>2E-2</u> | <u>3E-12</u> - <u>8E-12</u> | - <u>2E-14</u> <u>2E-14</u> | - <u>2E-8</u> - | - <u>2E-7</u> - |
| 94 | <u>Plutonium-239</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>8E-1</u> <u>Bone surf</u> <u>(1E+0)</u> - | <u>6E-3</u> <u>Bone surf</u> <u>(1E-2)</u> <u>2E-2</u> <u>Bone surf</u> <u>(2E-2)</u> | <u>3E-12</u> - <u>7E-12</u> - | - <u>2E-14</u> - | - <u>2E-8</u> - | - <u>2E-7</u> - |
| 94 | <u>Plutonium-240</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>8E-1</u> <u>Bone surf</u> <u>(1E+0)</u> - | <u>6E-3</u> <u>Bone surf</u> <u>(1E-2)</u> <u>2E-2</u> <u>Bone surf</u> <u>(2E-2)</u> | <u>3E-12</u> - <u>7E-12</u> - | - <u>2E-14</u> - | - <u>2E-8</u> - | - <u>2E-7</u> - |
| 94 | <u>Plutonium-241</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>4E+1</u> <u>Bone surf</u> <u>(7E+1)</u> - | <u>3E-1</u> <u>Bone surf</u> <u>(6E-1)</u> <u>8E-1</u> <u>Bone surf</u> <u>(1E+0)</u> | <u>1E-10</u> - <u>3E-10</u> - | - <u>8E-13</u> - | - <u>1E-6</u> - | - <u>1E-5</u> - |
| 94 | <u>Plutonium-242</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>8E-1</u> <u>Bone surf</u> <u>(1E+0)</u> - | <u>7E-3</u> <u>Bone surf</u> <u>(1E-2)</u> <u>2E-2</u> <u>Bone surf</u> <u>(2E-2)</u> | <u>3E-12</u> - <u>7E-12</u> - | - <u>2E-14</u> - | - <u>2E-8</u> - | - <u>2E-7</u> - |
| 94 | <u>Plutonium-243</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>2E+4</u> - | <u>4E+4</u> <u>4E+4</u> | <u>2E-5</u> <u>2E-5</u> | <u>5E-8</u> <u>5E-8</u> | <u>2E-4</u> - | <u>2E-3</u> - |
| 94 | <u>Plutonium-244</u> | <u>W, see ²³⁴Pu</u> <u>Y, see ²³⁴Pu</u> | <u>8E-1</u> <u>Bone surf</u> <u>(2E+0)</u> - | <u>7E-3</u> <u>Bone surf</u> <u>(1E-2)</u> <u>2E-2</u> <u>Bone surf</u> <u>(2E-2)</u> | <u>3E-12</u> - <u>7E-12</u> - | - <u>2E-14</u> - | - <u>2E-8</u> - | - <u>2E-7</u> - |
| 94 | <u>Plutonium-245</u> | <u>W, see ²³⁴Pu</u> | <u>2E+3</u> | <u>5E+3</u> | <u>2E-6</u> | <u>6E-9</u> | <u>3E-5</u> | <u>3E-4</u> |

| | | | | | | | | |
|----|-----------------------------------|--------------------------------|------------------|------------------|--------------|--------------|-------------|-------------|
| | | <u>Y, see ²³⁴Pu</u> | - | <u>4E+3</u> | <u>2E-6</u> | <u>6E-9</u> | - | - |
| 94 | <u>Plutonium-246</u> | <u>W, see ²³⁴Pu</u> | <u>4E+2</u> | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | - | - |
| | | | <u>LLI wall</u> | | | | | |
| | | | <u>(4E+2)</u> | - | - | - | <u>6E-6</u> | <u>6E-5</u> |
| | | <u>Y, see ²³⁴Pu</u> | - | <u>3E+2</u> | <u>1E-7</u> | <u>4E-10</u> | - | - |
| 95 | <u>Americium-237²</u> | <u>W, all compounds</u> | <u>8E+4</u> | <u>3E+5</u> | <u>1E-4</u> | <u>4E-7</u> | <u>1E-3</u> | <u>1E-2</u> |
| 95 | <u>Americium-238²</u> | <u>W, all compounds</u> | <u>4E+4</u> | <u>3E+3</u> | <u>1E-6</u> | - | <u>5E-4</u> | <u>5E-3</u> |
| | | | - | <u>Bone surf</u> | - | <u>9E-9</u> | - | - |
| | | | - | <u>(6E+3)</u> | - | - | - | - |
| 95 | <u>Americium-239</u> | <u>W, all compounds</u> | <u>5E+3</u> | <u>1E+4</u> | <u>5E-6</u> | <u>2E-8</u> | <u>7E-5</u> | <u>7E-4</u> |
| 95 | <u>Americium-240</u> | <u>W, all compounds</u> | <u>2E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| 95 | <u>Americium-241</u> | <u>W, all compounds</u> | <u>8E-1</u> | <u>6E-3</u> | <u>3E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(1E+0)</u> | <u>(1E-2)</u> | - | <u>2E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| 95 | <u>Americium-242m</u> | <u>W, all compounds</u> | <u>8E-1</u> | <u>6E-3</u> | <u>3E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(1E+0)</u> | <u>(1E-2)</u> | - | <u>2E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| 95 | <u>Americium-242</u> | <u>W, all compounds</u> | <u>4E+3</u> | <u>8E+1</u> | <u>4E-8</u> | - | <u>5E-5</u> | <u>5E-4</u> |
| | | | - | <u>Bone surf</u> | - | <u>1E-10</u> | - | - |
| | | | - | <u>(9E+1)</u> | - | - | - | - |
| 95 | <u>Americium-243</u> | <u>W, all compounds</u> | <u>8E-1</u> | <u>6E-3</u> | <u>3E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(1E+0)</u> | <u>(1E-2)</u> | - | <u>2E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| 95 | <u>Americium-244m²</u> | <u>W, all compounds</u> | <u>6E+4</u> | <u>4E+3</u> | <u>2E-6</u> | - | - | - |
| | | | <u>St wall</u> | <u>Bone surf</u> | | | | |
| | | | <u>(8E+4)</u> | <u>(7E+3)</u> | - | <u>1E-8</u> | <u>1E-3</u> | <u>1E-2</u> |
| 95 | <u>Americium-244</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>2E+2</u> | <u>8E-8</u> | - | <u>4E-5</u> | <u>4E-4</u> |
| | | | - | <u>Bone surf</u> | - | <u>4E-10</u> | - | - |
| | | | - | <u>(3E+2)</u> | - | - | - | - |
| 95 | <u>Americium-245</u> | <u>W, all compounds</u> | <u>3E+4</u> | <u>8E+4</u> | <u>3E-5</u> | <u>1E-7</u> | <u>4E-4</u> | <u>4E-3</u> |
| 95 | <u>Americium-246m²</u> | <u>W, all compounds</u> | <u>5E+4</u> | <u>2E+5</u> | <u>8E-5</u> | <u>3E-7</u> | - | - |
| | | | <u>St wall</u> | | | | | |
| | | | <u>(6E+4)</u> | - | - | - | <u>8E-4</u> | <u>8E-3</u> |
| 95 | <u>Americium-246²</u> | <u>W, all compounds</u> | <u>3E+4</u> | <u>1E+5</u> | <u>4E-5</u> | <u>1E-7</u> | <u>4E-4</u> | <u>4E-3</u> |
| 96 | <u>Curium-238</u> | <u>W, all compounds</u> | <u>2E+4</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>2E-4</u> | <u>2E-3</u> |
| 96 | <u>Curium-240</u> | <u>W, all compounds</u> | <u>6E+1</u> | <u>6E-1</u> | <u>2E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(8E+1)</u> | <u>(6E-1)</u> | - | <u>9E-13</u> | <u>1E-6</u> | <u>1E-5</u> |
| 96 | <u>Curium-241</u> | <u>W, all compounds</u> | <u>1E+3</u> | <u>3E+1</u> | <u>1E-8</u> | - | <u>2E-5</u> | <u>2E-4</u> |
| | | | - | <u>Bone surf</u> | - | <u>5E-11</u> | - | - |
| | | | - | <u>(4E+1)</u> | - | - | - | - |
| 96 | <u>Curium-242</u> | <u>W, all compounds</u> | <u>3E+1</u> | <u>3E-1</u> | <u>1E-10</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(5E+1)</u> | <u>(3E-1)</u> | - | <u>4E-13</u> | <u>7E-7</u> | <u>7E-6</u> |
| 96 | <u>Curium-243</u> | <u>W, all compounds</u> | <u>1E+0</u> | <u>9E-3</u> | <u>4E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(2E+0)</u> | <u>(2E-2)</u> | - | <u>2E-14</u> | <u>3E-8</u> | <u>3E-7</u> |
| 96 | <u>Curium-244</u> | <u>W, all compounds</u> | <u>1E+0</u> | <u>1E-2</u> | <u>5E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(3E+0)</u> | <u>(2E-2)</u> | - | <u>3E-14</u> | <u>3E-8</u> | <u>3E-7</u> |
| 96 | <u>Curium-245</u> | <u>W, all compounds</u> | <u>7E-1</u> | <u>6E-3</u> | <u>3E-12</u> | - | - | - |
| | | | <u>Bone surf</u> | <u>Bone surf</u> | | | | |
| | | | <u>(1E+0)</u> | <u>(1E-2)</u> | - | <u>2E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| 96 | <u>Curium-246</u> | <u>W, all compounds</u> | <u>7E-1</u> | <u>6E-3</u> | <u>3E-12</u> | - | - | - |

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| | | | <u>Bone surf</u> <u>(1E+0)</u> | <u>Bone surf</u> <u>-2)</u> | | <u>2E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
|----|------------------------------------|--|-----------------------------------|-----------------------------------|--------------|--------------|--------------|-------------|
| 96 | <u>Curium-247</u> | <u>W, all compounds</u> | <u>8E-1</u> | <u>6E-3</u> | <u>3E-12</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(1E+0)</u> | <u>Bone surf</u> <u>(1E-2)</u> | - | <u>2E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| 96 | <u>Curium-248</u> | <u>W, all compounds</u> | <u>2E-1</u> | <u>2E-3</u> | <u>7E-13</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(4E-1)</u> | <u>Bone surf</u> <u>(3E-3)</u> | - | <u>4E-15</u> | <u>5E-9</u> | <u>5E-8</u> |
| 96 | <u>Curium-249²</u> | <u>W, all compounds</u> | <u>5E+4</u> | <u>2E+4</u> | <u>7E-6</u> | - | <u>7E-4</u> | <u>7E-3</u> |
| | | | - | <u>Bone surf</u> <u>(3E+4)</u> | - | <u>4E-8</u> | - | - |
| 96 | <u>Curium-250</u> | <u>W, all compounds</u> | <u>4E-2</u> | <u>3E-4</u> | <u>1E-13</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(6E-2)</u> | <u>Bone surf</u> <u>(5E-4)</u> | - | <u>8E-16</u> | <u>9E-10</u> | <u>9E-9</u> |
| 97 | <u>Berkelium-245</u> | <u>W, all compounds</u> | <u>2E+3</u> | <u>1E+3</u> | <u>5E-7</u> | <u>2E-9</u> | <u>3E-5</u> | <u>3E-4</u> |
| 97 | <u>Berkelium-246</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>3E+3</u> | <u>1E-6</u> | <u>4E-9</u> | <u>4E-5</u> | <u>4E-4</u> |
| 97 | <u>Berkelium-247</u> | <u>W, all compounds</u> | <u>5E-1</u> | <u>4E-3</u> | <u>2E-12</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(1E+0)</u> | <u>Bone surf</u> <u>(9E-3)</u> | - | <u>1E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| 97 | <u>Berkelium-249</u> | <u>W, all compounds</u> | <u>2E+2</u> | <u>2E+0</u> | <u>7E-10</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(5E+2)</u> | <u>Bone surf</u> <u>(4E+0)</u> | - | <u>5E-12</u> | <u>6E-6</u> | <u>6E-5</u> |
| 97 | <u>Berkelium-250</u> | <u>W, all compounds</u> | <u>9E+3</u> | <u>3E+2</u> | <u>1E-7</u> | - | <u>1E-4</u> | <u>1E-3</u> |
| | | | - | <u>Bone surf</u> <u>(7E+2)</u> | - | <u>1E-9</u> | - | - |
| 98 | <u>Californium-244²</u> | <u>W, all compounds except</u> <u>those given for Y</u> | <u>3E+4</u> | <u>6E+2</u> | <u>2E-7</u> | <u>8E-10</u> | - | - |
| | | | <u>St wall</u> <u>(3E+4)</u> | - | - | - | <u>4E-4</u> | <u>4E-3</u> |
| | | <u>Y, oxides and hydroxides</u> | - | <u>6E+2</u> | <u>2E-7</u> | <u>8E-10</u> | - | - |
| 98 | <u>Californium-246</u> | <u>W, see ²⁴⁴Cf</u> | <u>4E+2</u> | <u>9E+0</u> | <u>4E-9</u> | <u>1E-11</u> | <u>5E-6</u> | <u>5E-5</u> |
| | | <u>Y, see ²⁴⁴Cf</u> | - | <u>9E+0</u> | <u>4E-9</u> | <u>1E-11</u> | - | - |
| 98 | <u>Californium-248</u> | <u>W, see ²⁴⁴Cf</u> | <u>8E+0</u> | <u>6E-2</u> | <u>3E-11</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(2E+1)</u> | <u>Bone surf</u> <u>(1E-1)</u> | - | <u>2E-13</u> | <u>2E-7</u> | <u>2E-6</u> |
| | | <u>Y, see ²⁴⁴Cf</u> | - | <u>1E-1</u> | <u>4E-11</u> | <u>1E-13</u> | - | - |
| 98 | <u>Californium-249</u> | <u>W, see ²⁴⁴Cf</u> | <u>5E-1</u> | <u>4E-3</u> | <u>2E-12</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(1E+0)</u> | <u>Bone surf</u> <u>(9E-3)</u> | - | <u>1E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| | | <u>Y, see ²⁴⁴Cf</u> | - | <u>1E-2</u> | <u>4E-12</u> | - | - | - |
| | | | - | <u>Bone surf</u> <u>(1E-2)</u> | - | <u>2E-14</u> | - | - |
| 98 | <u>Californium-250</u> | <u>W, see ²⁴⁴Cf</u> | <u>1E+0</u> | <u>9E-3</u> | <u>4E-12</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(2E+0)</u> | <u>Bone surf</u> <u>(2E-2)</u> | - | <u>3E-14</u> | <u>3E-8</u> | <u>3E-7</u> |
| | | <u>Y, see ²⁴⁴Cf</u> | - | <u>3E-2</u> | <u>1E-11</u> | <u>4E-14</u> | - | - |
| 98 | <u>Californium-251</u> | <u>W, see ²⁴⁴Cf</u> | <u>5E-1</u> | <u>4E-3</u> | <u>2E-12</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(1E+0)</u> | <u>Bone surf</u> <u>(9E-3)</u> | - | <u>1E-14</u> | <u>2E-8</u> | <u>2E-7</u> |
| | | <u>Y, see ²⁴⁴Cf</u> | - | <u>1E-2</u> | <u>4E-12</u> | - | - | - |
| | | | - | <u>Bone surf</u> <u>(1E-2)</u> | - | <u>2E-14</u> | - | - |
| 98 | <u>Californium-252</u> | <u>W, see ²⁴⁴Cf</u> | <u>2E+0</u> | <u>2E-2</u> | <u>8E-12</u> | - | - | - |
| | | | <u>Bone surf</u> <u>(5E+0)</u> | <u>Bone surf</u> <u>(4E-2)</u> | - | <u>5E-14</u> | <u>7E-8</u> | <u>7E-7</u> |
| | | <u>Y, see ²⁴⁴Cf</u> | - | <u>3E-2</u> | <u>1E-11</u> | <u>5E-14</u> | - | - |
| 98 | <u>Californium-253</u> | <u>W, see ²⁴⁴Cf</u> | <u>2E+2</u> | <u>2E+0</u> | <u>8E-10</u> | <u>3E-12</u> | - | - |
| | | | <u>Bone surf</u> <u>(4E+2)</u> | - | - | - | <u>5E-6</u> | <u>5E-5</u> |

| | | | | | | | | |
|-----|---|--|--|--|------------------------------|------------------------------|------------------|------------------|
| | | <u>Y, see ²⁴⁴Cf</u> | - | <u>2E+0</u> | <u>7E-10</u> | <u>2E-12</u> | - | - |
| 98 | <u>Californium-254</u> | <u>W, see ²⁴⁴Cf</u> <u>Y, see ²⁴⁴Cf</u> | <u>2E+0</u> - | <u>2E-2</u> <u>2E-2</u> | <u>9E-12</u> <u>7E-12</u> | <u>3E-14</u> <u>2E-14</u> | <u>3E-8</u> - | <u>3E-7</u> - |
| 99 | <u>Einsteinium-250</u> | <u>W, all compounds</u> | <u>4E+4</u> - | <u>5E+2</u> <u>Bone surf</u> <u>(1E+3)</u> | <u>2E-7</u> - | - <u>2E-9</u> | <u>6E-4</u> - | <u>6E-3</u> - |
| 99 | <u>Einsteinium-251</u> | <u>W, all compounds</u> | <u>7E+3</u> - | <u>9E+2</u> <u>Bone surf</u> <u>(1E+3)</u> | <u>4E-7</u> - | - <u>2E-9</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 99 | <u>Einsteinium-253</u> | <u>W, all compounds</u> | <u>2E+2</u> | <u>1E+0</u> | <u>6E-10</u> | <u>2E-12</u> | <u>2E-6</u> | <u>2E-5</u> |
| 99 | <u>Einsteinium-254m</u> | <u>W, all compounds</u> | <u>3E+2</u> <u>LLI wall</u> <u>(3E+2)</u> | <u>1E+1</u> - | <u>4E-9</u> - | <u>1E-11</u> - | - <u>4E-6</u> | - <u>4E-5</u> |
| 99 | <u>Einsteinium-254</u> | <u>W, all compounds</u> | <u>8E+0</u> <u>Bone surf</u> <u>(2E+1)</u> | <u>7E-2</u> <u>Bone surf</u> <u>(1E-1)</u> | <u>3E-11</u> - | - <u>2E-13</u> | - <u>2E-7</u> | - <u>2E-6</u> |
| 100 | <u>Fermium-252</u> | <u>W, all compounds</u> | <u>5E+2</u> | <u>1E+1</u> | <u>5E-9</u> | <u>2E-11</u> | <u>6E-6</u> | <u>6E-5</u> |
| 100 | <u>Fermium-253</u> | <u>W, all compounds</u> | <u>1E+3</u> | <u>1E+1</u> | <u>4E-9</u> | <u>1E-11</u> | <u>1E-5</u> | <u>1E-4</u> |
| 100 | <u>Fermium-254</u> | <u>W, all compounds</u> | <u>3E+3</u> | <u>9E+1</u> | <u>4E-8</u> | <u>1E-10</u> | <u>4E-5</u> | <u>4E-4</u> |
| 100 | <u>Fermium-255</u> | <u>W, all compounds</u> | <u>5E+2</u> | <u>2E+1</u> | <u>9E-9</u> | <u>3E-11</u> | <u>7E-6</u> | <u>7E-5</u> |
| 100 | <u>Fermium-257</u> | <u>W, all compounds</u> | <u>2E+1</u> <u>Bone surf</u> <u>(4E+1)</u> | <u>2E-1</u> <u>Bone surf</u> <u>(2E-1)</u> | <u>7E-11</u> - | - <u>3E-13</u> | - <u>5E-7</u> | - <u>5E-6</u> |
| 101 | <u>Mendelevium-257</u> | <u>W, all compounds</u> | <u>7E+3</u> - | <u>8E+1</u> <u>Bone surf</u> <u>(9E+1)</u> | <u>4E-8</u> - | - <u>1E-10</u> | <u>1E-4</u> - | <u>1E-3</u> - |
| 101 | <u>Mendelevium-258</u> | <u>W, all compounds</u> | <u>3E+1</u> <u>Bone surf</u> <u>(5E+1)</u> | <u>2E-1</u> <u>Bone surf</u> <u>(3E-1)</u> | <u>1E-10</u> - | - <u>5E-13</u> | - <u>6E-7</u> | - <u>6E-6</u> |
| - | <u>Any single radionuclide not listed above with decay mode other than alpha emission or spontaneous fission and with radioactive half-life less than 2 hours</u> | | - | <u>2E+2</u> | <u>1E-7</u> | <u>1E-9</u> | - | - |
| - | <u>Any single radionuclide not listed above with decay mode other than alpha emission or spontaneous fission and with radioactive half-life greater than 2 hours</u> | | - | <u>2E-1</u> | <u>1E-10</u> | <u>1E-12</u> | <u>1E-8</u> | <u>1E-7</u> |
| - | <u>Any single radionuclide not listed above that decays by alpha emission or spontaneous fission, or any mixture for which either the identity or the concentration of any radionuclide in the mixture is not known</u> | | - | <u>4E-4</u> | <u>2E-13</u> | <u>1E-15</u> | <u>2E-9</u> | <u>2E-8</u> |

FOOTNOTES:

¹"Submersion" means that values given are for submersion in a hemispherical semi-infinite cloud of airborne material.

²These radionuclides have radiological half-lives of less than 2 hours. The total effective dose equivalent received during operations with these radionuclides might include a significant contribution from external exposure. The DAC values for all radionuclides, other than those designated Class "Submersion," are based upon the committed effective dose equivalent due to the intake of the radionuclide into the body and do NOT include potentially significant contributions to dose equivalent from external exposures. The licensee may substitute 1E-7 µCi/ml for the listed DAC to account for the submersion dose prospectively, but should use individual monitoring devices or other radiation measuring instruments that measure external exposure to demonstrate compliance with the limits. (See WAC 246-221-015(5).)

³For soluble mixtures of U-238, U-234, and U-235 in air, chemical toxicity may be the limiting factor (see WAC 246-221-010(5)). If the percent by weight (enrichment) of U-235 is not greater than 5, the concentration value for a 40-hour workweek is 0.2 milligrams uranium per cubic meter of air average. For any enrichment, the product of the average concentration and time of exposure during a 40-hour workweek shall not exceed 8E-3 (SA) µCi-hr/ml, where SA

is the specific activity of the uranium inhaled. The specific activity for natural uranium is 6.77E-7 curies per gram U. The specific activity for other mixtures of U-238, U-235, and U-234, if not known, shall be:

$$SA = 3.6E-7 \text{ curies/gram U, U-depleted}$$

$$SA = [0.4 + 0.38 (\text{enrichment}) + 0.0034 (\text{enrichment})^2] E-6, \text{ enrichment} \geq 0.72$$

where enrichment is the percentage by weight of U-235, expressed as percent.

NOTE:

1. If the identity of each radionuclide in a mixture is known but the concentration of one or more of the radionuclides in the mixture is not known, the DAC for the mixture shall be the most restrictive DAC of any radionuclide in the mixture.
2. If the identity of each radionuclide in the mixture is not known, but it is known that certain radionuclides specified in this appendix are not present in the mixture, the inhalation ALI, DAC, and effluent and sewage concentrations for the mixture are the lowest values specified in this appendix for any radionuclide that is not known to be absent from the mixture; or

| | | | | | | |
|--|---|-------------|--------------|--------------|--------------|---|
| <p><u>If it is known that Ac-227-D and Cm-250-W are not present</u></p> | - | <u>7E-4</u> | <u>3E-13</u> | - | - | - |
| <p><u>If, in addition, it is known that Ac-227-W,Y, Th-229-W,Y, Th-230-W, Th-232-W,Y, Pa-231-W,Y, Np-237-W, Pu-239-W, Pu-240-W, Pu-242-W, Am-241-W, Am-242m-W, Am-243-W, Cm-245-W, Cm-246-W, Cm-247-W, Cm-248-W, Bk-247-W, Cf-249-W, and Cf-251-W are not present</u></p> | - | <u>7E-3</u> | <u>3E-12</u> | - | - | - |
| <p><u>If, in addition, it is known that Sm-146-W, Sm-147-W, Gd-148-D,W, Gd-152-D,W, Th-228-W,Y, Th-230-Y, U-232-Y, U-233-Y, U-234-Y, U-235-Y, U-236-Y, U-238-Y, Np-236-W, Pu-236-W,Y, Pu-238-W,Y, Pu-239-Y, Pu-240-Y, Pu-242-Y, Pu-244-W,Y, Cm-243-W, Cm-244-W, Cf-248-W, Cf-249-Y, Cf-250-W,Y, Cf-251-Y, Cf-252-W,Y, and Cf-254-W,Y are not present</u></p> | - | <u>7E-2</u> | <u>3E-11</u> | - | - | - |
| <p><u>If, in addition, it is known that Pb-210-D, Bi-210m-W, Po-210-D,W, Ra-223-W, Ra-225-W, Ra-226-W, Ac-225-D,W,Y, Th-227-W,Y, U-230-D,W,Y, U-232-D,W, Pu-241-W, Cm-240-W, Cm-242-W, Cf-248-Y, Es-254-W, Fm-257-W, and Md-258-W are not present</u></p> | - | <u>7E-1</u> | <u>3E-10</u> | - | - | - |
| <p><u>If, in addition, it is known that Si-32-Y, Ti-44-Y, Fe-60-D, Sr-90-Y, Zr-93-D, Cd-113m-D, Cd-113-D, In-115-D,W, La-138-D, Lu-176-W, Hf-178m-D,W, Hf-182-D,W, Bi-210m-D, Ra-224-W, Ra-228-W, Ac-226-D,W,Y, Pa-230-W,Y, U-233-D,W, U-234-D,W, U-235-D,W, U-236-D,W, U-238-D,W, Pu-241-Y, Bk-249-W, Cf-253-W,Y, and Es-253-W are not present</u></p> | - | <u>7E+0</u> | <u>3E-9</u> | - | - | - |
| <p><u>If it is known that Ac-227-D,W,Y, Th-229-W,Y, Th-232-W,Y, Pa-231-W,Y, Cm-248-W, and Cm-250-W are not present</u></p> | - | - | - | <u>1E-14</u> | - | - |
| <p><u>If, in addition, it is known that Sm-146-W, Gd-148-D,W, Gd-152-D, Th-228-W,Y, Th-230-W,Y, U-232-Y, U-233-Y, U-234-Y, U-235-Y, U-236-Y, U-238-Y, U-Nat-Y, Np-236-W, Np-237-W, Pu-236-W,Y, Pu-238-W,Y, Pu-239-W,Y, Pu-240-W,Y, Pu-242-W,Y, Pu-244-W,Y, Am-241-W, Am-242m-W, Am-243-W, Cm-243-W, Cm-244-W, Cm-245-W, Cm-246-W, Cm-247-W, Bk-247-W, Cf-249-W,Y, Cf-250-W,Y, Cf-251-W,Y, Cf-252-W,Y, and Cf-254-W,Y are not present</u></p> | - | - | - | <u>1E-13</u> | - | - |
| <p><u>If, in addition, it is known that Sm-147-W, Gd-152-W, Pb-210-D, Bi-210m-W, Po-210-D,W, Ra-223-W, Ra-225-W, Ra-226-W, Ac-225-D,W,Y, Th-227-W,Y, U-230-D,W,Y, U-232-D,W, U-Nat-W, Pu-241-W, Cm-240-W, Cm-242-W, Cf-248-W,Y, Es-254-W, Fm-257-W, and Md-258-W are not present</u></p> | - | - | - | - | <u>1E-12</u> | - |
| <p><u>If, in addition it is known that Fe-60, Sr-90, Cd-113m, Cd-113, In-115, I-129, Cs-134, Sm-145, Sm-147, Gd-148, Gd-152, Hg-194 (organic), Bi-210m, Ra-223, Ra-224, Ra-225, Ac-225, Th-228, Th-230, U-233, U-234, U-235, U-236, U-238, U-Nat, Cm-242, Cf-248,</u></p> | - | - | - | - | - | - |

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Es-254, Fm-257, and Md-258 are not present

3. If a mixture of radionuclides consists of uranium and its daughters in ore dust (10 µm AMAD particle distribution assumed) prior to chemical separation of the uranium from the ore, the following values may be used for the DAC of the mixture: 6E-11 µCi of gross alpha activity from uranium-238, uranium-234, thorium-230, and radium-226 per milliliter of air; 3E-11 µCi of natural uranium per milliliter of air; or 45 micrograms of natural uranium per cubic meter of air.
4. If the identity and concentration of each radionuclide in a mixture are known, the limiting values should be derived as follows: Determine, for each radionuclide in the mixture, the ratio between the concentration present in the mixture and the concentration otherwise established in this section for the specific radionuclide when not in a mixture. The sum of such ratios for all of the radionuclides in the mixture may not exceed "1" (i.e., "unity").

Example: If radionuclides "A," "B," and "C" are present in concentrations CA, CB, and CC, and if the applicable DACs are DAC_A, DAC_B, and DAC_C, respectively, then the concentrations shall be limited so that the following relationship exists:

$$\frac{C_A}{DAC_A} + \frac{C_B}{DAC_B} + \frac{C_C}{DAC_C} \leq 1$$

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-221-300 Appendix B—Minimum quantities (exempt from) of radioactive material requiring labeling.

| (Material | Microcuries |
|----------------------|-------------|
| Americium 241 | 0.01 |
| Antimony 122 | 100 |
| Antimony 124 | 10 |
| Antimony 125 | 10 |
| Arsenic 73 | 100 |
| Arsenic 74 | 10 |
| Arsenic 76 | 10 |
| Arsenic 77 | 100 |
| Barium 133 | 10 |
| Barium 140 | 10 |
| Bismuth 210 | 1 |
| Bromine 82 | 10 |
| Cadmium 109 | 10 |
| Cadmium 115m | 10 |
| Cadmium 115 | 100 |
| Calcium 45 | 10 |
| Calcium 47 | 10 |
| Carbon 14 | 100 |
| Cerium 141 | 100 |
| Cerium 143 | 100 |
| Cerium 144 | 1 |
| Cesium 131 | 1,000 |
| Cesium 134m | 100 |
| Cesium 134 | 1 |
| Cesium 135 | 10 |
| Cesium 136 | 10 |
| Cesium 137 | 10 |
| Chlorine 36 | 10 |
| Chlorine 38 | 10 |
| Chromium 51 | 1,000 |
| Cobalt 58m | 10 |
| Cobalt 58 | 10 |
| Cobalt 60 | 1 |
| Copper 64 | 100 |
| Dysprosium 165 | 10 |
| Dysprosium 166 | 100 |
| Erbium 169 | 100 |
| Erbium 171 | 100 |
| Europium 152 (9.2 h) | 100 |
| Europium 152 (12 yr) | 1 |
| Europium 154 | 1 |
| Europium 155 | 10 |
| Fluorine 18 | 1,000 |
| Gadolinium 153 | 10 |

| | |
|------------------|-------|
| Gadolinium 159 | 100 |
| Gallium 72 | 10 |
| Germanium 71 | 100 |
| Gold 198 | 100 |
| Gold 199 | 100 |
| Hafnium 181 | 10 |
| Holmium 166 | 100 |
| Hydrogen 3 | 1,000 |
| Indium 113m | 100 |
| Indium 114m | 10 |
| Indium 115m | 100 |
| Indium 115 | 10 |
| Iodine 125 | 1 |
| Iodine 126 | 1 |
| Iodine 129 | 0.1 |
| Iodine 131 | 1 |
| Iodine 132 | 10 |
| Iodine 133 | 1 |
| Iodine 134 | 10 |
| Iodine 135 | 10 |
| Iridium 192 | 10 |
| Iridium 194 | 100 |
| Iron 55 | 100 |
| Iron 59 | 10 |
| Krypton 85 | 100 |
| Krypton 87 | 10 |
| Lanthanum 140 | 10 |
| Lutetium 177 | 100 |
| Manganese 52 | 10 |
| Manganese 54 | 10 |
| Manganese 56 | 10 |
| Mercury 197m | 100 |
| Mercury 197 | 100 |
| Mercury 203 | 10 |
| Molybdenum 99 | 100 |
| Neodymium 147 | 100 |
| Neodymium 149 | 100 |
| Nickel 59 | 100 |
| Nickel 63 | 10 |
| Nickel 65 | 100 |
| Niobium 93m | 10 |
| Niobium 95 | 10 |
| Niobium 97 | 10 |
| Osmium 185 | 10 |
| Osmium 191m | 100 |
| Osmium 191 | 100 |
| Osmium 193 | 100 |
| Palladium 103 | 100 |
| Palladium 109 | 100 |
| Phosphorus 32 | 10 |
| Platinum 191 | 100 |
| Platinum 193m | 100 |
| Platinum 193 | 100 |
| Platinum 197m | 100 |
| Platinum 197 | 100 |
| Plutonium 239 | 0.01 |
| Polonium 210 | 0.1 |
| Potassium 42 | 10 |
| Praseodymium 142 | 100 |

PERMANENT

PERMANENT

| | |
|--------------------------------|-------|
| Praseodymium-143 | 100 |
| Promethium-147 | 10 |
| Promethium-149 | 10 |
| Radium-226 | 0.01 |
| Rhenium-186 | 100 |
| Rhenium-188 | 100 |
| Rhodium-103m | 100 |
| Rhodium-105 | 100 |
| Rubidium-86 | 10 |
| Rubidium-87 | 10 |
| Ruthenium-97 | 100 |
| Ruthenium-103 | 10 |
| Ruthenium-105 | 10 |
| Ruthenium-106 | 1 |
| Samarium-151 | 10 |
| Samarium-153 | 100 |
| Scandium-46 | 10 |
| Scandium-47 | 100 |
| Scandium-48 | 10 |
| Selenium-75 | 10 |
| Silicon-31 | 100 |
| Silver-105 | 10 |
| Silver-110m | 1 |
| Silver-111 | 100 |
| Sodium-22 | 10 |
| Sodium-24 | 10 |
| Strontium-85 | 10 |
| Strontium-89 | 1 |
| Strontium-90 | 0.1 |
| Strontium-91 | 10 |
| Strontium-92 | 10 |
| Sulphur-35 | 100 |
| Tantalum-182 | 10 |
| Technetium-96 | 10 |
| Technetium-97m | 100 |
| Technetium-97 | 100 |
| Technetium-99m | 100 |
| Technetium-99 | 10 |
| Tellurium-125m | 10 |
| Tellurium-127m | 10 |
| Tellurium-127 | 100 |
| Tellurium-129m | 10 |
| Tellurium-129 | 100 |
| Tellurium-131m | 10 |
| Tellurium-132 | 10 |
| Terbium-160 | 10 |
| Thallium-200 | 100 |
| Thallium-201 | 100 |
| Thallium-202 | 100 |
| Thallium-204 | 10 |
| Thorium (natural) ¹ | 100 |
| Thulium-170 | 10 |
| Thulium-171 | 10 |
| Tin-113 | 10 |
| Tin-125 | 10 |
| Tungsten-181 | 10 |
| Tungsten-185 | 10 |
| Tungsten-187 | 100 |
| Uranium (natural) ² | 100 |
| Uranium-233 | 0.01 |
| Uranium-234 | |
| Uranium-235 | 0.01 |
| Vanadium-48 | 10 |
| Xenon-131m | 1,000 |
| Xenon-133 | 100 |
| Xenon-135 | 100 |
| Ytterbium-169 | 10 |
| Ytterbium-175 | 100 |
| Yttrium-90 | 10 |
| Yttrium-91 | 10 |
| Yttrium-92 | 100 |
| Yttrium-93 | 100 |
| Zinc-65 | 10 |
| Zinc-69m | 100 |
| Zinc-69 | 1,000 |

| | |
|--------------|----|
| Zirconium-93 | 10 |
| Zirconium-95 | 10 |
| Zirconium-97 | 10 |

Notes: ¹Based on alpha disintegration rate of Th-232, Th-230 and their daughter products.

²Based on alpha disintegration rate of U-238, U-234, and U-235.

Material _____ Microcuries

Any alpha emitting radionuclide not listed above or mixtures of alpha emitters of unknown composition _____ 0.01

Any radionuclide other than alpha emitting radionuclides, not listed above or mixtures of beta emitters of unknown composition _____ 0.1

Note: For purposes of WAC 246-221-120 and 246-221-190, where there is involved a combination of isotopes in known amounts, the limit for the combination should be derived as follows: Determine, for each isotope in the combination, the ratio between the quantity present in the combination and the limit otherwise established for the specific isotope when not in combination. The sum of such ratios for all the isotopes in the combination may not exceed "1" (i.e., "unity"). Example: For purposes of WAC 246-221-120 (1)(g), if a particular batch, room, or area contains 200 µCi of Au-198 and 500 µCi of C-14, it may also contain not more than 3 µCi of I-131 and remain unposted. This limit was determined as follows:

$$200 \mu\text{Ci Au-198}/1,000 \mu\text{Ci} + 500 \mu\text{Ci C-14}/1,000 \mu\text{Ci} + 3 \mu\text{Ci I-131}/10 \mu\text{Ci} = 1$$

The denominator in each of the above ratios was obtained by multiplying the figure in the table by 10 as provided in WAC 246-221-120 (1)(g).))

Minimum Quantities¹ of Radioactive Material Requiring Labeling

| Radionuclide | Quantity* (µCi) |
|----------------------|-----------------|
| Actinium-224 | 1 |
| Actinium-225 | 0.01 |
| Actinium-226 | 0.1 |
| Actinium-227 | 0.001 |
| Actinium-228 | 1 |
| Aluminum-26 | 10 |
| Americium-237 | 1,000 |
| Americium-238 | 100 |
| Americium-239 | 1,000 |
| Americium-240 | 100 |
| Americium-241 | 0.001 |
| Americium-242 | 10 |
| Americium-242m | 0.001 |
| Americium-243 | 0.001 |
| Americium-244 | 10 |
| Americium-244m | 100 |
| Americium-245 | 1,000 |
| Americium-246 | 1,000 |
| Americium-246m | 1,000 |
| Antimony-115 | 1,000 |
| Antimony-116 | 1,000 |
| Antimony-116m | 1,000 |
| Antimony-117 | 1,000 |
| Antimony-118m | 1,000 |
| Antimony-119 | 1,000 |
| Antimony-120 (16min) | 1,000 |
| Antimony-120 (5.76d) | 100 |
| Antimony-122 | 100 |
| Antimony-124 | 10 |
| Antimony-124m | 1,000 |
| Antimony-125 | 100 |
| Antimony-126 | 100 |
| Antimony-126m | 1,000 |

| | | | |
|-------------------------------|--------------|-------------------------|--------------|
| <u>Antimony-127</u> | <u>100</u> | <u>Californium-251</u> | <u>0.001</u> |
| <u>Antimony-128 (9.01h)</u> | <u>100</u> | <u>Californium-252</u> | <u>0.001</u> |
| <u>Antimony-128 (10.4min)</u> | <u>1,000</u> | <u>Californium-253</u> | <u>0.1</u> |
| <u>Antimony-129</u> | <u>100</u> | <u>Californium-254</u> | <u>0.001</u> |
| <u>Antimony-130</u> | <u>1,000</u> | <u>Carbon-11</u> | <u>1,000</u> |
| <u>Antimony-131</u> | <u>1,000</u> | <u>Carbon-14</u> | <u>1,000</u> |
| <u>Argon-39</u> | <u>1,000</u> | <u>Cerium-134</u> | <u>100</u> |
| <u>Argon-41</u> | <u>1,000</u> | <u>Cerium-135</u> | <u>100</u> |
| <u>Arsenic-69</u> | <u>1,000</u> | <u>Cerium-137</u> | <u>1,000</u> |
| <u>Arsenic-70</u> | <u>1,000</u> | <u>Cerium-137m</u> | <u>100</u> |
| <u>Arsenic-71</u> | <u>100</u> | <u>Cerium-139</u> | <u>100</u> |
| <u>Arsenic-72</u> | <u>100</u> | <u>Cerium-141</u> | <u>100</u> |
| <u>Arsenic-73</u> | <u>100</u> | <u>Cerium-143</u> | <u>100</u> |
| <u>Arsenic-74</u> | <u>100</u> | <u>Cerium-144</u> | <u>1</u> |
| <u>Arsenic-76</u> | <u>100</u> | <u>Cesium-125</u> | <u>1,000</u> |
| <u>Arsenic-77</u> | <u>100</u> | <u>Cesium-127</u> | <u>1,000</u> |
| <u>Arsenic-78</u> | <u>1,000</u> | <u>Cesium-129</u> | <u>1,000</u> |
| <u>Astatine-207</u> | <u>100</u> | <u>Cesium-130</u> | <u>1,000</u> |
| <u>Astatine-211</u> | <u>10</u> | <u>Cesium-131</u> | <u>1,000</u> |
| <u>Barium-126</u> | <u>1,000</u> | <u>Cesium-132</u> | <u>100</u> |
| <u>Barium-128</u> | <u>100</u> | <u>Cesium-134</u> | <u>10</u> |
| <u>Barium-131</u> | <u>100</u> | <u>Cesium-134m</u> | <u>1,000</u> |
| <u>Barium-131m</u> | <u>1,000</u> | <u>Cesium-135</u> | <u>100</u> |
| <u>Barium-133</u> | <u>100</u> | <u>Cesium-135m</u> | <u>1,000</u> |
| <u>Barium-133m</u> | <u>100</u> | <u>Cesium-136</u> | <u>10</u> |
| <u>Barium-135m</u> | <u>100</u> | <u>Cesium-137</u> | <u>10</u> |
| <u>Barium-139</u> | <u>1,000</u> | <u>Cesium-138</u> | <u>1,000</u> |
| <u>Barium-140</u> | <u>100</u> | <u>Chlorine-36</u> | <u>10</u> |
| <u>Barium-141</u> | <u>1,000</u> | <u>Chlorine-38</u> | <u>1,000</u> |
| <u>Barium-142</u> | <u>1,000</u> | <u>Chlorine-39</u> | <u>1,000</u> |
| <u>Berkelium-245</u> | <u>100</u> | <u>Chromium-48</u> | <u>1,000</u> |
| <u>Berkelium-246</u> | <u>100</u> | <u>Chromium-49</u> | <u>1,000</u> |
| <u>Berkelium-247</u> | <u>0.001</u> | <u>Chromium-51</u> | <u>1,000</u> |
| <u>Berkelium-249</u> | <u>0.1</u> | <u>Cobalt-55</u> | <u>100</u> |
| <u>Berkelium-250</u> | <u>10</u> | <u>Cobalt-56</u> | <u>10</u> |
| <u>Beryllium-7</u> | <u>1,000</u> | <u>Cobalt-57</u> | <u>100</u> |
| <u>Beryllium-10</u> | <u>1</u> | <u>Cobalt-58</u> | <u>100</u> |
| <u>Bismuth-200</u> | <u>1,000</u> | <u>Cobalt-58m</u> | <u>1,000</u> |
| <u>Bismuth-201</u> | <u>1,000</u> | <u>Cobalt-60</u> | <u>1</u> |
| <u>Bismuth-202</u> | <u>1,000</u> | <u>Cobalt-60m</u> | <u>1,000</u> |
| <u>Bismuth-203</u> | <u>100</u> | <u>Cobalt-61</u> | <u>1,000</u> |
| <u>Bismuth-205</u> | <u>100</u> | <u>Cobalt-62m</u> | <u>1,000</u> |
| <u>Bismuth-206</u> | <u>100</u> | <u>Copper-60</u> | <u>1,000</u> |
| <u>Bismuth-207</u> | <u>10</u> | <u>Copper-61</u> | <u>1,000</u> |
| <u>Bismuth-210</u> | <u>1</u> | <u>Copper-64</u> | <u>1,000</u> |
| <u>Bismuth-210m</u> | <u>0.1</u> | <u>Copper-67</u> | <u>1,000</u> |
| <u>Bismuth-212</u> | <u>10</u> | <u>Curium-238</u> | <u>100</u> |
| <u>Bismuth-213</u> | <u>10</u> | <u>Curium-240</u> | <u>0.1</u> |
| <u>Bismuth-214</u> | <u>100</u> | <u>Curium-241</u> | <u>1</u> |
| <u>Bromine-74</u> | <u>1,000</u> | <u>Curium-242</u> | <u>0.01</u> |
| <u>Bromine-74m</u> | <u>1,000</u> | <u>Curium-243</u> | <u>0.001</u> |
| <u>Bromine-75</u> | <u>1,000</u> | <u>Curium-244</u> | <u>0.001</u> |
| <u>Bromine-76</u> | <u>100</u> | <u>Curium-245</u> | <u>0.001</u> |
| <u>Bromine-77</u> | <u>1,000</u> | <u>Curium-246</u> | <u>0.001</u> |
| <u>Bromine-80</u> | <u>1,000</u> | <u>Curium-247</u> | <u>0.001</u> |
| <u>Bromine-80m</u> | <u>1,000</u> | <u>Curium-248</u> | <u>0.001</u> |
| <u>Bromine-82</u> | <u>100</u> | <u>Curium-249</u> | <u>1,000</u> |
| <u>Bromine-83</u> | <u>1,000</u> | <u>Dysprosium-155</u> | <u>1,000</u> |
| <u>Bromine-84</u> | <u>1,000</u> | <u>Dysprosium-157</u> | <u>1,000</u> |
| <u>Cadmium-104</u> | <u>1,000</u> | <u>Dysprosium-159</u> | <u>100</u> |
| <u>Cadmium-107</u> | <u>1,000</u> | <u>Dysprosium-165</u> | <u>1,000</u> |
| <u>Cadmium-109</u> | <u>1</u> | <u>Dysprosium-166</u> | <u>100</u> |
| <u>Cadmium-113</u> | <u>100</u> | <u>Einsteinium-250</u> | <u>100</u> |
| <u>Cadmium-113m</u> | <u>0.1</u> | <u>Einsteinium-251</u> | <u>100</u> |
| <u>Cadmium-115</u> | <u>100</u> | <u>Einsteinium-253</u> | <u>0.1</u> |
| <u>Cadmium-115m</u> | <u>10</u> | <u>Einsteinium-254</u> | <u>0.01</u> |
| <u>Cadmium-117</u> | <u>1,000</u> | <u>Einsteinium-254m</u> | <u>1</u> |
| <u>Cadmium-117m</u> | <u>1,000</u> | <u>Erbium-161</u> | <u>1,000</u> |
| <u>Calcium-41</u> | <u>100</u> | <u>Erbium-165</u> | <u>1,000</u> |
| <u>Calcium-45</u> | <u>100</u> | <u>Erbium-169</u> | <u>100</u> |
| <u>Calcium-47</u> | <u>100</u> | <u>Erbium-171</u> | <u>100</u> |
| <u>Californium-244</u> | <u>100</u> | <u>Erbium-172</u> | <u>100</u> |
| <u>Californium-246</u> | <u>1</u> | <u>Europium-145</u> | <u>100</u> |
| <u>Californium-248</u> | <u>0.01</u> | <u>Europium-146</u> | <u>100</u> |
| <u>Californium-249</u> | <u>0.001</u> | <u>Europium-147</u> | <u>100</u> |
| <u>Californium-250</u> | <u>0.001</u> | <u>Europium-148</u> | <u>10</u> |

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| <u>Europium-149</u> | <u>100</u> | <u>Indium-109</u> | <u>1,000</u> |
| <u>Europium-150 (12.62h)</u> | <u>100</u> | <u>Indium-110 (4.9h)</u> | <u>1,000</u> |
| <u>Europium-150 (34.2y)</u> | <u>1</u> | <u>Indium-110m (69.1min)</u> | <u>1,000</u> |
| <u>Europium-152</u> | <u>1</u> | <u>Indium-111</u> | <u>100</u> |
| <u>Europium-152m</u> | <u>100</u> | <u>Indium-112</u> | <u>1,000</u> |
| <u>Europium-154</u> | <u>1</u> | <u>Indium-113m</u> | <u>1,000</u> |
| <u>Europium-155</u> | <u>10</u> | <u>Indium-114m</u> | <u>10</u> |
| <u>Europium-156</u> | <u>100</u> | <u>Indium-115</u> | <u>100</u> |
| <u>Europium-157</u> | <u>100</u> | <u>Indium-115m</u> | <u>1,000</u> |
| <u>Europium-158</u> | <u>1,000</u> | <u>Indium-116m</u> | <u>1,000</u> |
| <u>Fermium-252</u> | <u>1</u> | <u>Indium-117</u> | <u>1,000</u> |
| <u>Fermium-253</u> | <u>1</u> | <u>Indium-117m</u> | <u>1,000</u> |
| <u>Fermium-254</u> | <u>10</u> | <u>Indium-119m</u> | <u>1,000</u> |
| <u>Fermium-255</u> | <u>1</u> | <u>Iodine-120</u> | <u>100</u> |
| <u>Fermium-257</u> | <u>0.01</u> | <u>Iodine-120m</u> | <u>1,000</u> |
| <u>Fluorine-18</u> | <u>1,000</u> | <u>Iodine-121</u> | <u>1,000</u> |
| <u>Francium-222</u> | <u>100</u> | <u>Iodine-123</u> | <u>100</u> |
| <u>Francium-223</u> | <u>100</u> | <u>Iodine-124</u> | <u>10</u> |
| <u>Gadolinium-145</u> | <u>1,000</u> | <u>Iodine-125</u> | <u>1</u> |
| <u>Gadolinium-146</u> | <u>10</u> | <u>Iodine-126</u> | <u>1</u> |
| <u>Gadolinium-147</u> | <u>100</u> | <u>Iodine-128</u> | <u>1,000</u> |
| <u>Gadolinium-148</u> | <u>0.001</u> | <u>Iodine-129</u> | <u>1</u> |
| <u>Gadolinium-149</u> | <u>100</u> | <u>Iodine-130</u> | <u>10</u> |
| <u>Gadolinium-151</u> | <u>10</u> | <u>Iodine-131</u> | <u>1</u> |
| <u>Gadolinium-152</u> | <u>100</u> | <u>Iodine-132</u> | <u>100</u> |
| <u>Gadolinium-153</u> | <u>10</u> | <u>Iodine-132m</u> | <u>100</u> |
| <u>Gadolinium-159</u> | <u>100</u> | <u>Iodine-133</u> | <u>10</u> |
| <u>Gallium-65</u> | <u>1,000</u> | <u>Iodine-134</u> | <u>1,000</u> |
| <u>Gallium-66</u> | <u>100</u> | <u>Iodine-135</u> | <u>100</u> |
| <u>Gallium-67</u> | <u>1,000</u> | <u>Iridium-182</u> | <u>1,000</u> |
| <u>Gallium-68</u> | <u>1,000</u> | <u>Iridium-184</u> | <u>1,000</u> |
| <u>Gallium-70</u> | <u>1,000</u> | <u>Iridium-185</u> | <u>1,000</u> |
| <u>Gallium-72</u> | <u>100</u> | <u>Iridium-186</u> | <u>100</u> |
| <u>Gallium-73</u> | <u>1,000</u> | <u>Iridium-187</u> | <u>1,000</u> |
| <u>Germanium-66</u> | <u>1,000</u> | <u>Iridium-188</u> | <u>100</u> |
| <u>Germanium-67</u> | <u>1,000</u> | <u>Iridium-189</u> | <u>100</u> |
| <u>Germanium-68</u> | <u>10</u> | <u>Iridium-190</u> | <u>100</u> |
| <u>Germanium-69</u> | <u>1,000</u> | <u>Iridium-190m</u> | <u>1,000</u> |
| <u>Germanium-71</u> | <u>1,000</u> | <u>Iridium-192 (73.8d)</u> | <u>1</u> |
| <u>Germanium-75</u> | <u>1,000</u> | <u>Iridium-192m (1.4min)</u> | <u>10</u> |
| <u>Germanium-77</u> | <u>1,000</u> | <u>Iridium-194</u> | <u>100</u> |
| <u>Germanium-78</u> | <u>1,000</u> | <u>Iridium-194m</u> | <u>10</u> |
| <u>Gold-193</u> | <u>1,000</u> | <u>Iridium-195</u> | <u>1,000</u> |
| <u>Gold-194</u> | <u>100</u> | <u>Iridium-195m</u> | <u>1,000</u> |
| <u>Gold-195</u> | <u>10</u> | <u>Iron-52</u> | <u>100</u> |
| <u>Gold-198</u> | <u>100</u> | <u>Iron-55</u> | <u>100</u> |
| <u>Gold-198m</u> | <u>100</u> | <u>Iron-59</u> | <u>10</u> |
| <u>Gold-199</u> | <u>100</u> | <u>Iron-60</u> | <u>1</u> |
| <u>Gold-200</u> | <u>1,000</u> | <u>Krypton-74</u> | <u>1,000</u> |
| <u>Gold-200m</u> | <u>100</u> | <u>Krypton-76</u> | <u>1,000</u> |
| <u>Gold-201</u> | <u>1,000</u> | <u>Krypton-77</u> | <u>1,000</u> |
| <u>Hafnium-170</u> | <u>100</u> | <u>Krypton-79</u> | <u>1,000</u> |
| <u>Hafnium-172</u> | <u>1</u> | <u>Krypton-81</u> | <u>1,000</u> |
| <u>Hafnium-173</u> | <u>1,000</u> | <u>Krypton-83m</u> | <u>1,000</u> |
| <u>Hafnium-175</u> | <u>100</u> | <u>Krypton-85</u> | <u>1,000</u> |
| <u>Hafnium-177m</u> | <u>1,000</u> | <u>Krypton-85m</u> | <u>1,000</u> |
| <u>Hafnium-178m</u> | <u>0.1</u> | <u>Krypton-87</u> | <u>1,000</u> |
| <u>Hafnium-179m</u> | <u>10</u> | <u>Krypton-88</u> | <u>1,000</u> |
| <u>Hafnium-180m</u> | <u>1,000</u> | <u>Lanthanum-131</u> | <u>1,000</u> |
| <u>Hafnium-181</u> | <u>10</u> | <u>Lanthanum-132</u> | <u>100</u> |
| <u>Hafnium-182</u> | <u>0.1</u> | <u>Lanthanum-135</u> | <u>1,000</u> |
| <u>Hafnium-182m</u> | <u>1,000</u> | <u>Lanthanum-137</u> | <u>10</u> |
| <u>Hafnium-183</u> | <u>1,000</u> | <u>Lanthanum-138</u> | <u>100</u> |
| <u>Hafnium-184</u> | <u>100</u> | <u>Lanthanum-140</u> | <u>100</u> |
| <u>Holmium-155</u> | <u>1,000</u> | <u>Lanthanum-141</u> | <u>100</u> |
| <u>Holmium-157</u> | <u>1,000</u> | <u>Lanthanum-142</u> | <u>1,000</u> |
| <u>Holmium-159</u> | <u>1,000</u> | <u>Lanthanum-143</u> | <u>1,000</u> |
| <u>Holmium-161</u> | <u>1,000</u> | <u>Lead-195m</u> | <u>1,000</u> |
| <u>Holmium-162</u> | <u>1,000</u> | <u>Lead-198</u> | <u>1,000</u> |
| <u>Holmium-162m</u> | <u>1,000</u> | <u>Lead-199</u> | <u>1,000</u> |
| <u>Holmium-164</u> | <u>1,000</u> | <u>Lead-200</u> | <u>100</u> |
| <u>Holmium-164m</u> | <u>1,000</u> | <u>Lead-201</u> | <u>1,000</u> |
| <u>Holmium-166</u> | <u>100</u> | <u>Lead-202</u> | <u>10</u> |
| <u>Holmium-166m</u> | <u>1</u> | <u>Lead-202m</u> | <u>1,000</u> |
| <u>Holmium-167</u> | <u>1,000</u> | <u>Lead-203</u> | <u>1,000</u> |
| <u>Hydrogen-3</u> | <u>1,000</u> | <u>Lead-205</u> | <u>100</u> |

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| <u>Lead-209</u> | 1,000 | <u>Niobium-98</u> | 1,000 |
| <u>Lead-210</u> | 0.01 | <u>Osmium-180</u> | 1,000 |
| <u>Lead-211</u> | 100 | <u>Osmium-181</u> | 1,000 |
| <u>Lead-212</u> | 1 | <u>Osmium-182</u> | 100 |
| <u>Lead-214</u> | 100 | <u>Osmium-185</u> | 100 |
| <u>Lutetium-169</u> | 100 | <u>Osmium-189m</u> | 1,000 |
| <u>Lutetium-170</u> | 100 | <u>Osmium-191</u> | 100 |
| <u>Lutetium-171</u> | 100 | <u>Osmium-191m</u> | 1,000 |
| <u>Lutetium-172</u> | 100 | <u>Osmium-193</u> | 100 |
| <u>Lutetium-173</u> | 10 | <u>Osmium-194</u> | 1 |
| <u>Lutetium-174</u> | 10 | <u>Palladium-100</u> | 100 |
| <u>Lutetium-174m</u> | 10 | <u>Palladium-101</u> | 1,000 |
| <u>Lutetium-176</u> | 100 | <u>Palladium-103</u> | 100 |
| <u>Lutetium-176m</u> | 1,000 | <u>Palladium-107</u> | 10 |
| <u>Lutetium-177</u> | 100 | <u>Palladium-109</u> | 100 |
| <u>Lutetium-177m</u> | 10 | <u>Phosphorus-32</u> | 10 |
| <u>Lutetium-178</u> | 1,000 | <u>Phosphorus-33</u> | 100 |
| <u>Lutetium-178m</u> | 1,000 | <u>Platinum-186</u> | 1,000 |
| <u>Lutetium-179</u> | 1,000 | <u>Platinum-188</u> | 100 |
| <u>Magnesium-28</u> | 100 | <u>Platinum-189</u> | 1,000 |
| <u>Manganese-51</u> | 1,000 | <u>Platinum-191</u> | 100 |
| <u>Manganese-52</u> | 100 | <u>Platinum-193</u> | 1,000 |
| <u>Manganese-52m</u> | 1,000 | <u>Platinum-193m</u> | 100 |
| <u>Manganese-53</u> | 1,000 | <u>Platinum-195m</u> | 100 |
| <u>Manganese-54</u> | 100 | <u>Platinum-197</u> | 100 |
| <u>Manganese-56</u> | 1,000 | <u>Platinum-197m</u> | 1,000 |
| <u>Mendelevium-257</u> | 10 | <u>Platinum-199</u> | 1,000 |
| <u>Mendelevium-258</u> | 0.01 | <u>Platinum-200</u> | 100 |
| <u>Mercury-193</u> | 1,000 | <u>Plutonium-234</u> | 10 |
| <u>Mercury-193m</u> | 100 | <u>Plutonium-235</u> | 1,000 |
| <u>Mercury-194</u> | 1 | <u>Plutonium-236</u> | 0.001 |
| <u>Mercury-195</u> | 1,000 | <u>Plutonium-237</u> | 100 |
| <u>Mercury-195m</u> | 100 | <u>Plutonium-238</u> | 0.001 |
| <u>Mercury-197</u> | 1,000 | <u>Plutonium-239</u> | 0.001 |
| <u>Mercury-197m</u> | 100 | <u>Plutonium-240</u> | 0.001 |
| <u>Mercury-199m</u> | 1,000 | <u>Plutonium-241</u> | 0.01 |
| <u>Mercury-203</u> | 100 | <u>Plutonium-242</u> | 0.001 |
| <u>Molybdenum-90</u> | 100 | <u>Plutonium-243</u> | 1,000 |
| <u>Molybdenum-93</u> | 10 | <u>Plutonium-244</u> | 0.001 |
| <u>Molybdenum-93m</u> | 100 | <u>Plutonium-245</u> | 100 |
| <u>Molybdenum-99</u> | 100 | <u>Polonium-203</u> | 1,000 |
| <u>Molybdenum-101</u> | 1,000 | <u>Polonium-205</u> | 1,000 |
| <u>Neodymium-136</u> | 1,000 | <u>Polonium-207</u> | 1,000 |
| <u>Neodymium-138</u> | 100 | <u>Polonium-210</u> | 0.1 |
| <u>Neodymium-139</u> | 1,000 | <u>Potassium-40</u> | 100 |
| <u>Neodymium-139m</u> | 1,000 | <u>Potassium-42</u> | 1,000 |
| <u>Neodymium-141</u> | 1,000 | <u>Potassium-43</u> | 1,000 |
| <u>Neodymium-147</u> | 100 | <u>Potassium-44</u> | 1,000 |
| <u>Neodymium-149</u> | 1,000 | <u>Potassium-45</u> | 1,000 |
| <u>Neodymium-151</u> | 1,000 | <u>Praseodymium-136</u> | 1,000 |
| <u>Neptunium-232</u> | 100 | <u>Praseodymium-137</u> | 1,000 |
| <u>Neptunium-233</u> | 1,000 | <u>Praseodymium-138m</u> | 1,000 |
| <u>Neptunium-234</u> | 100 | <u>Praseodymium-139</u> | 1,000 |
| <u>Neptunium-235</u> | 100 | <u>Praseodymium-142</u> | 100 |
| <u>Neptunium-236 (1.15E+5y)</u> | 0.001 | <u>Praseodymium-142m</u> | 1,000 |
| <u>Neptunium-236 (22.5h)</u> | 1 | <u>Praseodymium-143</u> | 100 |
| <u>Neptunium-237</u> | 0.001 | <u>Praseodymium-144</u> | 1,000 |
| <u>Neptunium-238</u> | 10 | <u>Praseodymium-145</u> | 100 |
| <u>Neptunium-239</u> | 100 | <u>Praseodymium-147</u> | 1,000 |
| <u>Neptunium-240</u> | 1,000 | <u>Promethium-141</u> | 1,000 |
| <u>Nickel-56</u> | 100 | <u>Promethium-143</u> | 100 |
| <u>Nickel-57</u> | 100 | <u>Promethium-144</u> | 10 |
| <u>Nickel-59</u> | 100 | <u>Promethium-145</u> | 10 |
| <u>Nickel-63</u> | 100 | <u>Promethium-146</u> | 1 |
| <u>Nickel-65</u> | 1,000 | <u>Promethium-147</u> | 10 |
| <u>Nickel-66</u> | 10 | <u>Promethium-148</u> | 10 |
| <u>Niobium-88</u> | 1,000 | <u>Promethium-148m</u> | 10 |
| <u>Niobium-89 (122min)</u> | 1,000 | <u>Promethium-149</u> | 100 |
| <u>Niobium-89m (66min)</u> | 1,000 | <u>Promethium-150</u> | 1,000 |
| <u>Niobium-90</u> | 100 | <u>Promethium-151</u> | 100 |
| <u>Niobium-93m</u> | 10 | <u>Protactinium-227</u> | 10 |
| <u>Niobium-94</u> | 1 | <u>Protactinium-228</u> | 1 |
| <u>Niobium-95</u> | 100 | <u>Protactinium-230</u> | 0.1 |
| <u>Niobium-95m</u> | 100 | <u>Protactinium-231</u> | 0.001 |
| <u>Niobium-96</u> | 100 | <u>Protactinium-232</u> | 1 |
| <u>Niobium-97</u> | 1,000 | <u>Protactinium-233</u> | 100 |

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| <u>Protactinium-234</u> | <u>100</u> | <u>Silver-103</u> | <u>1,000</u> |
| <u>Radium-223</u> | <u>0.1</u> | <u>Silver-104</u> | <u>1,000</u> |
| <u>Radium-224</u> | <u>0.1</u> | <u>Silver-104m</u> | <u>1,000</u> |
| <u>Radium-225</u> | <u>0.1</u> | <u>Silver-105</u> | <u>100</u> |
| <u>Radium-226</u> | <u>0.1</u> | <u>Silver-106</u> | <u>1,000</u> |
| <u>Radium-227</u> | <u>1,000</u> | <u>Silver-106m</u> | <u>100</u> |
| <u>Radium-228</u> | <u>0.1</u> | <u>Silver-108m</u> | <u>1</u> |
| <u>Radon-220</u> | <u>1</u> | <u>Silver-111</u> | <u>100</u> |
| <u>Radon-222</u> | <u>1</u> | <u>Silver-112</u> | <u>100</u> |
| <u>Rhenium-177</u> | <u>1,000</u> | <u>Silver-115</u> | <u>1,000</u> |
| <u>Rhenium-178</u> | <u>1,000</u> | <u>Silver-110m</u> | <u>10</u> |
| <u>Rhenium-181</u> | <u>1,000</u> | <u>Sodium-22</u> | <u>10</u> |
| <u>Rhenium-182 (64.0h)</u> | <u>100</u> | <u>Sodium-24</u> | <u>100</u> |
| <u>Rhenium-182 (12.7h)</u> | <u>1,000</u> | <u>Strontium-80</u> | <u>100</u> |
| <u>Rhenium-184</u> | <u>100</u> | <u>Strontium-81</u> | <u>1,000</u> |
| <u>Rhenium-184m</u> | <u>10</u> | <u>Strontium-83</u> | <u>100</u> |
| <u>Rhenium-186</u> | <u>100</u> | <u>Strontium-85</u> | <u>100</u> |
| <u>Rhenium-186m</u> | <u>10</u> | <u>Strontium-85m</u> | <u>1,000</u> |
| <u>Rhenium-187</u> | <u>1,000</u> | <u>Strontium-87m</u> | <u>1,000</u> |
| <u>Rhenium-188</u> | <u>100</u> | <u>Strontium-89</u> | <u>10</u> |
| <u>Rhenium-188m</u> | <u>1,000</u> | <u>Strontium-90</u> | <u>0.1</u> |
| <u>Rhenium-189</u> | <u>100</u> | <u>Strontium-91</u> | <u>100</u> |
| <u>Rhodium-99</u> | <u>100</u> | <u>Strontium-92</u> | <u>100</u> |
| <u>Rhodium-99m</u> | <u>1,000</u> | <u>Sulfur-35</u> | <u>100</u> |
| <u>Rhodium-100</u> | <u>100</u> | <u>Tantalum-172</u> | <u>1,000</u> |
| <u>Rhodium-101</u> | <u>10</u> | <u>Tantalum-173</u> | <u>1,000</u> |
| <u>Rhodium-101m</u> | <u>1,000</u> | <u>Tantalum-174</u> | <u>1,000</u> |
| <u>Rhodium-102</u> | <u>10</u> | <u>Tantalum-175</u> | <u>1,000</u> |
| <u>Rhodium-102m</u> | <u>10</u> | <u>Tantalum-176</u> | <u>100</u> |
| <u>Rhodium-103m</u> | <u>1,000</u> | <u>Tantalum-177</u> | <u>1,000</u> |
| <u>Rhodium-105</u> | <u>100</u> | <u>Tantalum-178</u> | <u>1,000</u> |
| <u>Rhodium-106m</u> | <u>1,000</u> | <u>Tantalum-179</u> | <u>100</u> |
| <u>Rhodium-107</u> | <u>1,000</u> | <u>Tantalum-180</u> | <u>100</u> |
| <u>Rubidium-79</u> | <u>1,000</u> | <u>Tantalum-180m</u> | <u>1,000</u> |
| <u>Rubidium-81</u> | <u>1,000</u> | <u>Tantalum-182</u> | <u>10</u> |
| <u>Rubidium-81m</u> | <u>1,000</u> | <u>Tantalum-182m</u> | <u>1,000</u> |
| <u>Rubidium-82m</u> | <u>1,000</u> | <u>Tantalum-183</u> | <u>100</u> |
| <u>Rubidium-83</u> | <u>100</u> | <u>Tantalum-184</u> | <u>100</u> |
| <u>Rubidium-84</u> | <u>100</u> | <u>Tantalum-185</u> | <u>1,000</u> |
| <u>Rubidium-86</u> | <u>100</u> | <u>Tantalum-186</u> | <u>1,000</u> |
| <u>Rubidium-87</u> | <u>100</u> | <u>Technetium-93</u> | <u>1,000</u> |
| <u>Rubidium-88</u> | <u>1,000</u> | <u>Technetium-93m</u> | <u>1,000</u> |
| <u>Rubidium-89</u> | <u>1,000</u> | <u>Technetium-94</u> | <u>1,000</u> |
| <u>Ruthenium-94</u> | <u>1,000</u> | <u>Technetium-94m</u> | <u>1,000</u> |
| <u>Ruthenium-97</u> | <u>1,000</u> | <u>Technetium-96</u> | <u>100</u> |
| <u>Ruthenium-103</u> | <u>100</u> | <u>Technetium-96m</u> | <u>1,000</u> |
| <u>Ruthenium-105</u> | <u>1,000</u> | <u>Technetium-97</u> | <u>1,000</u> |
| <u>Ruthenium-106</u> | <u>1</u> | <u>Technetium-97m</u> | <u>100</u> |
| <u>Samarium-141</u> | <u>1,000</u> | <u>Technetium-98</u> | <u>10</u> |
| <u>Samarium-141m</u> | <u>1,000</u> | <u>Technetium-99</u> | <u>100</u> |
| <u>Samarium-142</u> | <u>1,000</u> | <u>Technetium-99m</u> | <u>1,000</u> |
| <u>Samarium-145</u> | <u>100</u> | <u>Technetium-101</u> | <u>1,000</u> |
| <u>Samarium-146</u> | <u>1</u> | <u>Technetium-104</u> | <u>1,000</u> |
| <u>Samarium-147</u> | <u>100</u> | <u>Tellurium-116</u> | <u>1,000</u> |
| <u>Samarium-151</u> | <u>10</u> | <u>Tellurium-121</u> | <u>100</u> |
| <u>Samarium-153</u> | <u>100</u> | <u>Tellurium-121m</u> | <u>10</u> |
| <u>Samarium-155</u> | <u>1,000</u> | <u>Tellurium-123</u> | <u>100</u> |
| <u>Samarium-156</u> | <u>1,000</u> | <u>Tellurium-123m</u> | <u>10</u> |
| <u>Scandium-43</u> | <u>1,000</u> | <u>Tellurium-125m</u> | <u>10</u> |
| <u>Scandium-44</u> | <u>100</u> | <u>Tellurium-127</u> | <u>1,000</u> |
| <u>Scandium-44m</u> | <u>100</u> | <u>Tellurium-127m</u> | <u>10</u> |
| <u>Scandium-46</u> | <u>10</u> | <u>Tellurium-129</u> | <u>1,000</u> |
| <u>Scandium-47</u> | <u>100</u> | <u>Tellurium-129m</u> | <u>10</u> |
| <u>Scandium-48</u> | <u>100</u> | <u>Tellurium-131</u> | <u>100</u> |
| <u>Scandium-49</u> | <u>1,000</u> | <u>Tellurium-131m</u> | <u>10</u> |
| <u>Selenium-70</u> | <u>1,000</u> | <u>Tellurium-132</u> | <u>10</u> |
| <u>Selenium-73</u> | <u>100</u> | <u>Tellurium-133</u> | <u>1,000</u> |
| <u>Selenium-73m</u> | <u>1,000</u> | <u>Tellurium-133m</u> | <u>100</u> |
| <u>Selenium-75</u> | <u>100</u> | <u>Tellurium-134</u> | <u>1,000</u> |
| <u>Selenium-79</u> | <u>100</u> | <u>Terbium-147</u> | <u>1,000</u> |
| <u>Selenium-81</u> | <u>1,000</u> | <u>Terbium-149</u> | <u>100</u> |
| <u>Selenium-81m</u> | <u>1,000</u> | <u>Terbium-150</u> | <u>1,000</u> |
| <u>Selenium-83</u> | <u>1,000</u> | <u>Terbium-151</u> | <u>100</u> |
| <u>Silicon-31</u> | <u>1,000</u> | <u>Terbium-153</u> | <u>1,000</u> |
| <u>Silicon-32</u> | <u>1</u> | <u>Terbium-154</u> | <u>100</u> |
| <u>Silver-102</u> | <u>1,000</u> | <u>Terbium-155</u> | <u>1,000</u> |

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|----------------------|-------|
| Terbium-156 | 100 |
| Terbium-156m (24.4h) | 1,000 |
| Terbium-156m (5.0h) | 1,000 |
| Terbium-157 | 10 |
| Terbium-158 | 1 |
| Terbium-160 | 10 |
| Terbium-161 | 100 |
| Thallium-194 | 1,000 |
| Thallium-194m | 1,000 |
| Thallium-195 | 1,000 |
| Thallium-197 | 1,000 |
| Thallium-198 | 1,000 |
| Thallium-198m | 1,000 |
| Thallium-199 | 1,000 |
| Thallium-200 | 1,000 |
| Thallium-201 | 1,000 |
| Thallium-202 | 100 |
| Thallium-204 | 100 |
| Thorium-226 | 10 |
| Thorium-227 | 0.01 |
| Thorium-228 | 0.001 |
| Thorium-229 | 0.001 |
| Thorium-230 | 0.001 |
| Thorium-231 | 100 |
| Thorium-232 | 100 |
| Thorium-234 | 10 |
| Thorium-natural | 100 |
| Thulium-162 | 1,000 |
| Thulium-166 | 100 |
| Thulium-167 | 100 |
| Thulium-170 | 10 |
| Thulium-171 | 10 |
| Thulium-172 | 100 |
| Thulium-173 | 100 |
| Thulium-175 | 1,000 |
| Tin-110 | 100 |
| Tin-111 | 1,000 |
| Tin-113 | 100 |
| Tin-117m | 100 |
| Tin-119m | 100 |
| Tin-121 | 1,000 |
| Tin-121m | 100 |
| Tin-123 | 10 |
| Tin-123m | 1,000 |
| Tin-125 | 10 |
| Tin-126 | 10 |
| Tin-127 | 1,000 |
| Tin-128 | 1,000 |
| Titanium-44 | 1 |
| Titanium-45 | 1,000 |
| Tungsten-176 | 1,000 |
| Tungsten-177 | 1,000 |
| Tungsten-178 | 1,000 |
| Tungsten-179 | 1,000 |
| Tungsten-181 | 1,000 |
| Tungsten-185 | 100 |
| Tungsten-187 | 100 |
| Tungsten-188 | 10 |
| Uranium-230 | 0.01 |
| Uranium-231 | 100 |
| Uranium-232 | 0.001 |
| Uranium-233 | 0.001 |
| Uranium-234 | 0.001 |
| Uranium-235 | 0.001 |
| Uranium-236 | 0.001 |
| Uranium-237 | 100 |
| Uranium-238 | 100 |
| Uranium-239 | 1,000 |
| Uranium-240 | 100 |
| Uranium-natural | 100 |
| Vanadium-47 | 1,000 |
| Vanadium-48 | 100 |
| Vanadium-49 | 1,000 |
| Xenon-120 | 1,000 |
| Xenon-121 | 1,000 |
| Xenon-122 | 1,000 |

| | |
|---------------|-------|
| Xenon-123 | 1,000 |
| Xenon-125 | 1,000 |
| Xenon-127 | 1,000 |
| Xenon-129m | 1,000 |
| Xenon-131m | 1,000 |
| Xenon-133 | 1,000 |
| Xenon-133m | 1,000 |
| Xenon-135 | 1,000 |
| Xenon-135m | 1,000 |
| Xenon-138 | 1,000 |
| Ytterbium-162 | 1,000 |
| Ytterbium-166 | 100 |
| Ytterbium-167 | 1,000 |
| Ytterbium-169 | 100 |
| Ytterbium-175 | 100 |
| Ytterbium-177 | 1,000 |
| Ytterbium-178 | 1,000 |
| Yttrium-86 | 100 |
| Yttrium-86m | 1,000 |
| Yttrium-87 | 100 |
| Yttrium-88 | 10 |
| Yttrium-90 | 10 |
| Yttrium-90m | 1,000 |
| Yttrium-91 | 10 |
| Yttrium-91m | 1,000 |
| Yttrium-92 | 100 |
| Yttrium-93 | 100 |
| Yttrium-94 | 1,000 |
| Yttrium-95 | 1,000 |
| Zinc-62 | 100 |
| Zinc-63 | 1,000 |
| Zinc-65 | 10 |
| Zinc-69 | 1,000 |
| Zinc-69m | 100 |
| Zinc-71m | 1,000 |
| Zinc-72 | 100 |
| Zirconium-86 | 100 |
| Zirconium-88 | 10 |
| Zirconium-89 | 100 |
| Zirconium-93 | 1 |
| Zirconium-95 | 10 |
| Zirconium-97 | 100 |

Any alpha-emitting radionuclide not listed above or mixtures of alpha emitters of unknown composition 0.001

Any radionuclide other than alpha-emitting radionuclides not listed above, or mixtures of beta emitters of unknown composition 0.01

NOTE: For purposes of WAC 246-221-120(8), 246-221-130 (7)(a), and 246-221-240(1) where there is involved a combination of radionuclides in known amounts, the limit for the combination shall be derived as follows: Determine, for each radionuclide in the combination, the ratio between the quantity present in the combination and the limit otherwise established for the specific radionuclide when not in combination. The sum of such ratios for all radionuclides in the combination may not exceed "1" — that is, unity.

1 - The quantities listed above were derived by taking 1/10th of the most restrictive ALI listed in Table I, Columns 1 and 2, of WAC 246-221-290, rounding to the nearest factor of 10, and constraining the values listed between 37 Bq and 37 MBq (0.001 and 1,000 µCi). Values of 3.7 MBq (100 µCi) have been assigned for radionuclides having a radioactive half-life in excess of E+9 years, except rhenium, 37 MBq (1,000 µCi), to take into account their low specific activity.

* To convert µCi to kBq, multiply the µCi value by 37.

PERMANENT

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-222-020 Posting of notices to workers. (1) Each licensee or registrant shall post current copies of the following documents:

(a) The regulations in this chapter and in chapter 246-221 WAC;

(b) The license, ~~((certificate of registration,))~~ conditions or documents incorporated into the license by reference and amendments thereto;

(c) The operating procedures applicable to work under the license or registration;

(d) Any notice of noncompliance involving radiological working conditions, proposed imposition of civil penalty, order issued pursuant to chapter 246-220 WAC, or any response from the licensee or registrant.

(2) If posting of a document specified in subsection (1)(a), (b), or (c) of this section is not practicable, the licensee or registrant may post a notice which describes the document and states where it may be examined.

(3) Each licensee or registrant shall conspicuously post pertinent emergency procedures when emergency procedures are required by the department.

(4) Properly completed department Form RHF-3 "Notice to employees," shall be posted by each licensee or registrant wherever individuals work in or frequent any portion of a restricted area.

(5) Documents, notices or forms posted pursuant to this section shall appear in a sufficient number of places to permit individuals engaged in work under the license or registration to observe them on the way to or from any particular work location to which the document applies, shall be conspicuous, and shall be replaced if defaced or altered.

(6) Department documents posted pursuant to subsection (1)(d) of this section shall be posted as specified by subsection (5) of this section within five working days after receipt of the documents from the department; the licensee's or registrant's response, if any, shall be posted ~~((for a minimum of))~~ within five working days after dispatch from the licensee or registrant. Such documents shall remain posted for a minimum of five working days or until action correcting the item(s) of noncompliance has been completed, whichever is later.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-222-030 Instructions to workers. (1) All individuals ~~((working in or frequenting any portion of a restricted area))~~ likely to receive an occupational dose:

(a) Shall be kept informed of the storage, transfer, or use of sources of radiation in ~~((such portions of the restricted area))~~ the licensee's or registrant's facility;

(b) Shall be instructed in the health protection considerations for the individual and potential offspring associated with exposure to radiation or radioactive material, in precautions or procedures to minimize exposure, and in the purposes and functions of protective devices employed;

(c) Shall be instructed in, and instructed to observe, to the extent within the worker's control, the applicable provisions of these regulations, department form RHF-3 "Notice to employees," and license conditions for the

protection of personnel from exposures to radiation or radioactive material ~~((occurring in such areas));~~

(d) Shall be instructed that any worker or representative of workers who believes that a violation of the regulations, license conditions, or unnecessary exposure to radiation exists or occurred, may request an inspection by the department by oral or written notification. The notification shall set forth specific grounds for the complaint. Any such notification to the department is confidential;

(e) Shall be instructed of their right to notify the department if the individual suspects improper actions by a licensee/registrant, or conditions which may lead to a violation of these regulations, the license/registration, or unnecessary exposure to radiation or radioactive materials;

(f) Shall be instructed that employment discrimination by a licensee/registrant against an employee because of actions described in this chapter is prohibited;

(g) Shall be instructed as to their responsibility to report promptly to the licensee or registrant any condition which may constitute, lead to, or cause a violation of the act, these regulations, and licenses or unnecessary exposure to radiation or radioactive material;

(h) Shall be instructed in the appropriate response to warnings made in the event of any unusual occurrence or malfunction that may involve exposure to radiation or radioactive material; and

(i) Shall be advised as to the radiation exposure reports which workers shall be furnished pursuant to WAC 246-222-040.

(2) ~~((By July 1, 1984,))~~ Records of these instructions described in subsection (1) of this section ~~((;))~~ for all individuals working in, or frequenting any portion of, a restricted area shall be maintained for inspection by the department until further notice. These records shall include a copy of this section, or all the information contained in this section, along with a dated verification signature by the employee stating that the individual ~~((is satisfied with the))~~ has received an explanation of the instructions contained in this section.

(3) The extent of these instructions shall be commensurate with potential radiological health protection considerations ~~((in the restricted area))~~ present in the workplace.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-222-040 Notifications and reports to individuals. (1) Radiation exposure data for an individual and the results of any measurements, analyses, and calculations of radioactive material deposited or retained in the body of an individual shall be reported to the individual as specified in this section. The information reported shall include data and results obtained pursuant to these regulations, orders, and license conditions, as shown in records maintained by the licensee or registrant pursuant to these regulations. Each notification and report shall:

(a) Be in writing;

(b) Include appropriate identifying data such as the name of the licensee or registrant, the name of the individual, and the individual's identification number, preferably Social Security number;

(c) Include the individual's exposure information; and

(d) Contain the following statement:

"This report is furnished to you under the provisions of the Washington state department of health, division of radiation protection, rules and regulations for radiation protection. You should preserve this report for further reference."

(2) ~~((Upon request of the worker,))~~ Each licensee or registrant shall advise each worker annually of the worker's ~~((current and accumulated exposure to radiation or radioactive material))~~ dose as shown in records maintained by the licensee or registrant pursuant to WAC 246-221-090, 246-221-100, and 246-221-230 ~~((1) and (3))~~.

(3) At the request of a worker formerly engaged in work controlled by the licensee or the registrant, each licensee or registrant shall furnish to each worker or former worker a report of the worker's dose due to exposure to radiation or radioactive material upon termination. For the purposes of this section, termination means the end of employment with the licensee or the end of a work assignment in the licensee's restricted area(s) in a given calendar quarter without expectation, or specific scheduling, of reentry into such restricted area(s) during the remainder of that calendar quarter. Such report shall be furnished within thirty days from the time the request is made, or within thirty days after the exposure of the individual has been determined by the licensee or registrant, whichever is later; shall cover, within the period of time specified in the request, ~~((each calendar quarter))~~ the dose record for each year in which the worker's activities involved exposure to radiation from radioactive material licensed by, or radiation machines registered with the department; and shall include the dates and locations of work under the license or registration in which the worker participated during this period.

(4) ~~((When a licensee or registrant is required pursuant to WAC 246-221-260 to report to the department any exposure of an individual to radiation or radioactive material, the licensee or the registrant shall also provide the individual a written report on the individual's exposure data included therein. Such reports shall be transmitted at a time not later than the transmittal to the department.~~

(5)) In addition to the requirements of subsection (3) of this section, at the request of a worker who is terminating employment ~~((in a given calendar quarter))~~ with the licensee or registrant in work involving radiation exposure, ~~((or of a worker who, while employed by another person, is terminating assignment to work involving radiation exposure in the licensee's facility in that calendar quarter))~~ during the current year, each licensee or registrant shall provide at termination to each such worker, or to the worker's designee ~~((at termination,))~~ a written report regarding the radiation dose received by that worker from operations of the licensee or registrant during ~~((that specifically identified calendar quarter or fraction thereof, or provide a written statement of that dose if the finally determined personnel monitoring results are not available at that time. Estimated doses shall be clearly indicated as such))~~ the current year. If the most recent individual monitoring results are not available at that time, a written estimate of the dose shall be provided together with a clear indication that this is an estimate.

(5) When a licensee or registrant is required pursuant to WAC 246-221-260 to report to the department any exposure

of an individual to radiation or radioactive material, the licensee or the registrant shall also provide the individual a written report on the individual's exposure data included therein. Such reports shall be transmitted at a time not later than the transmittal to the department.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-222-070 Requests by workers for inspections. (1) Any worker or representative of workers who believes that a violation of the act, of these regulations, or of license conditions exists or has occurred in work under a license or registration with regard to radiological working conditions in which the worker is engaged, may request an inspection by giving notice of the alleged violation to the Washington state department of health, division of radiation protection. Any such notice shall be in writing, shall set forth the specific grounds for the notice, and shall be signed by the worker or representative of the workers. A copy shall be provided to the licensee or registrant by the office of radiation protection no later than at the time of inspection except that, upon the request of the worker giving such notice, his or her name and the name of individuals referred to therein shall not appear in such copy or on any record published, released, or made available by the department, except for good cause shown.

(2) If, upon receipt of such notice, the inspector for the ~~((office))~~ division of radiation protection determines that the complaint meets the requirements set forth in subsection (1) of this section, and that there are reasonable grounds to believe that the alleged violation exists or has occurred, the inspector shall cause an inspection to be made as soon as practicable, to determine if such alleged violation exists or has occurred. Inspections pursuant to this section need not be limited to matters referred to in the complaint.

(3) No licensee or registrant shall discharge or in any manner discriminate against any worker because such worker has filed any complaint or instituted or caused to be instituted any proceeding under these regulations or has testified or is about to testify in any such proceeding or because of the exercise by such worker on behalf of the worker or other workers of any option afforded by this chapter.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-222-080 Inspections not warranted—Informal review. (1) If the department of health, division of radiation protection determines, with respect to a complaint under WAC 246-222-070 that an inspection is not warranted because there are no reasonable grounds to believe that a violation exists or has occurred, the ~~((office))~~ division of radiation protection shall notify the complainant in writing of such determination.

(a) If the complaint resulted from activities concerning naturally occurring or accelerator produced radioactive materials and/or radiation producing machines: The complainant may obtain review of such determination by submitting a written statement of position to the Assistant Director, Division of Industrial Safety and Health, ~~((Mailstop HC 402))~~ P.O. Box 4600, Olympia, Washington 98504-4600. Such request for informal review will be processed according

to the provisions of WAC 296-350-460 and the provisions of the interagency agreement between the department of labor and industries and the department of health, division of radiation protection, if any.

(b) If the complaint resulted from activities concerning byproduct material, source material, and/or special nuclear material: The complainant may obtain review of such determination by submitting a written statement of position with the Department of Health, Division of Radiation Protection, (~~Mailstop LE-13~~) P.O. Box 47827, Olympia, Washington 98504-7827 (206/753-3468), who will provide the licensee or registrant with a copy of such statement by certified mail, excluding, at the request of the complainant, the name of the complainant. The licensee or registrant may submit an opposing written statement of position with the department of health, division of radiation protection, who will provide the complainant with a copy of such statement by certified mail. Upon the request of the complainant, the department of health may hold an informal conference in which the complainant and the licensee or registrant may orally present their views. An informal conference may also be held at the request of the licensee or registrant, but disclosure of the identity of the complainant will be made only following receipt of written authorization from the complainant. After considering all written or oral views presented, the department of health shall affirm, modify, or reverse the determination of the division of radiation protection and furnish the complainant and the licensee or registrant a written notification of the decision and the reason therefor.

(2) If the division of radiation protection determines that an inspection is not warranted because the requirements of WAC 246-222-070(1) have not been met, it shall notify the complainant in writing of such determination. Such determination shall be without prejudice to the filing of a new complaint meeting the requirements of WAC 246-222-070(1).

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-224-040 Expiration (~~of certificate~~) of registration. Except as provided by WAC 246-224-050(2) each (~~certificate of~~) registration shall expire at the end of the day on the date stated therein.

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-224-050 Renewal (~~of certificate~~) of registration. (1) Application for renewal of registration shall be filed in accordance with WAC 246-224-020 and 246-254-053 at least thirty days prior to the expiration date.

(2) In any case in which a registrant not less than thirty days prior to the expiration of his existing (~~certificate of~~) registration has filed an application in proper form for renewal, such existing (~~certificate of~~) registration shall not expire until the application status has been determined by the department.

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-224-070 Report of changes. The registrant shall notify the department in writing when making any change which would render the information contained in the application for registration (~~and/or certificate of registration~~) no longer accurate. Notifications shall be sent to X-Ray Control Section, Department of Health, (~~Mailstop LE-13~~) P.O. Box 47827, Olympia, WA 98504-7827. Notification shall be sent no later than thirty days after such change in the registration information.

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 246-224-030 Issuance of certificate of registration.

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-225-030 General requirements—Plan review. (1) Before construction, the floor plans and equipment arrangement of medical installations (new or modifications of existing installations) utilizing x-rays for diagnostic or therapeutic purposes shall be submitted to:

(a) A qualified expert for determination of shielding requirements using National Council on Radiation Protection and Measurements Report No. 49, or equivalent; and

(b) The department for subsequent review.

Review shall not imply approval.

(2) The review of such plans shall not preclude the requirement of additional modifications should a subsequent analysis of operating conditions indicate the possibility of an individual receiving a dose in excess of the limits required under WAC 246-221-010, 246-221-050, and 246-221-060.

(3) Diagnostic veterinary, podiatric, and dental facilities shall be exempt from submitting shielding calculations and floor plans.

(4) In order for the department to provide an evaluation, technical advice, and official review of the shielding requirements for a medical radiation installation, a floor plan drawn to scale and the following data are required:

(a) The normal location of the x-ray tube, along with an indication of anode-cathode orientation to the cassette holders;

(b) The limits of the tube travel;

(c) The directions in which the tube is pointed;

(d) Window locations;

(e) The location of the control booth or operator's position;

(f) The exposure switch location;

(g) The position of the viewing window, if any;

(h) The composition and thickness of the walls;

(i) If more than one story, the height floor-to-floor;

(j) If more than one story, the composition and thickness of materials in the ceiling or floor;

(k) The make and model of the x-ray machine;

(l) The maximum kVp and mA;

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(m) The types of examinations or treatments (for example, chest, (~~cephalometric~~) spine, general x-ray, or therapy);

(n) The identification and occupancy of areas adjacent to the x-ray room;

(o) The anticipated x-ray workload expressed in number of patients and exposures per week including:

(i) Technique factors used, or milliamperere-seconds or milliamperere-minutes per week; and

(ii) Estimates of the percentage of the workload expected to occur for a particular beam direction.

(5) For new and modified installations only, the following are minimum design requirements for medical x-ray machine operator booths. These requirements do not apply to dental, podiatry, and veterinary installations. See subsections (6) and (7) of this section for dental panoramic and cephalometric requirements.

(a) The operator shall be allotted (~~(7.5 square feet)~~) 0.7 sq. meters (7.5 sq. ft.) or more of unobstructed floor space in the x-ray booths.

(i) The (~~(7.5 square feet)~~) 0.7 sq. meters (7.5 sq. ft.) of minimum space specified under subsection (5)(a) of this section shall be a geometric configuration where no dimension is less than (~~(two feet)~~) 61.0 centimeters (2.0 ft.).

(ii) The allotted space shall exclude an encumbrance by the console, such as an overhang, cables, or other similar encroachment.

(iii) An extension of a straight line drawn between any point on the edge of the booth shielding and the nearest vertical edge of a (~~(chest)~~) vertical cassette holder (~~(or)~~)₂ corner of the examination table, or any part of the tube housing assembly shall not impinge on the unobstructed space.

(iv) The booth walls shall be (~~(seven feet high)~~) 2.1 meters (7.0 ft.) or more and shall be permanently fixed to the floor or other structure as may be necessary.

(v) When a door or moveable panel is used as the integral part of the booth structure, it must have a permissive device which will prevent an exposure when the door or panel is not closed.

(b) Switch placement. The operator's switch for the radiographic machine shall be fixed within the booth. The switch shall:

(i) Be at least 102 centimeters (forty inches) inside the protected area; and

(ii) Allow the operator to use the available viewing windows.

(c) Viewing system requirements.

(i) Each booth shall have at least one viewing device which shall:

(A) Be placed so the operator can view the patient during exposure; and

(B) Be placed so the operator can have full view of the entries into the room.

(ii) When the viewing system is a window, the following requirements also apply:

(A) The window shall have a visible area of (~~(one)~~) 930 square centimeters (1.0 square foot) or more; and

(B) The glass shall have the same lead equivalence or more as that required in the booth's wall where the glass is mounted.

(iii) When the viewing system is by mirrors, the mirrors shall be located to accomplish the general requirements under subdivision (i) of this subsection.

(iv) When the viewing system is by electronic means (for example, TV):

(A) The camera shall be located to accomplish the general requirements under subdivision (i) of this subsection; and

(B) There shall be an alternate viewing system as a backup for electronic failure.

(d) New or modified facilities shall maintain a copy of the floor plan and shielding calculations required under subsection (1) of this section.

(6) Dimensions of primary beam shielding (~~((chest, cephalometric)))~~) shall exceed the largest possible beam size by 30.5 centimeters (one foot) or more in every direction. Cephalometric primary beam shielding shall be deemed adequate if, for a maximum workload of twenty films a week, two-pound lead is installed (for occupied areas).

(7) A viewing device shall be present in dental panoramic and cephalometric x-ray installations, so the requirements of subsection (5)(c) of this section are met.

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-225-040 General requirements for diagnostic x-ray systems. In addition to other requirements of this chapter, diagnostic x-ray systems shall meet the following requirements:

(1) *Warning label.* The control panel containing the main power switch shall bear the warning statement, legible and accessible to view: "WARNING: This x-ray unit may be dangerous to patient and operator unless safe exposure factors and operating instructions are observed."

(2) *Battery charge indicator.* On battery-powered generators, visual means shall be provided on the control panel to indicate the battery is in a state of charge adequate for proper operation.

(3) *Leakage radiation from the diagnostic source assembly.* The leakage radiation from the diagnostic source assembly, measured at a distance of 1 meter in any direction from the source, shall not exceed 2.58×10^{-5} coulombs per kilogram (100 milliroentgens) in one hour when the x-ray tube is operated at its leakage technique factors. Compliance shall be determined by measurements averaged over an area of one hundred square centimeters with no linear dimension greater than twenty centimeters.

(4) *Radiation from components other than the diagnostic source assembly.* The radiation emitted by a component other than the diagnostic source assembly shall not exceed 5.16×10^{-7} coulombs per kilogram (2 milliroentgens) in one hour at 5 centimeters from an accessible surface of the component when it is operated in an assembled x-ray system under conditions for which it was designed. Compliance shall be determined by measurements averaged over an area of 100 square centimeters with no linear dimension greater than 20 centimeters.

(5) *Beam quality.*

(a) The half-value layer (HVL) of the useful beam for a given x-ray tube potential shall not be less than the values shown in this section, Table I. If it is necessary to deter-

mine such half-value layer at an x-ray tube potential which is not listed in Table I, linear interpolation or extrapolation shall be made.

WAC 246-225-040 TABLE I

| Design operating range (kilovolts peak) | Measured potential (kilovolts peak) | Half-value layer (millimeters of aluminum equivalent) | Half-value layer (millimeter of aluminum equivalent for dental units) |
|---|-------------------------------------|---|---|
| Below 51— | 30 | 0.3 | N/A |
| | 40 | 0.4 | N/A |
| | 50 | 0.5 | 1.5 |
| 51 to 70— | 51 | 1.2 | 1.5 |
| | 60 | 1.3 | 1.5 |
| | 70 | 1.5 | 1.5 |
| Above 70— | 71 | 2.1 | 2.1 |
| | 80 | 2.3 | 2.3 |
| | 90 | 2.5 | 2.5 |
| | 100 | 2.7 | 2.7 |
| | 110 | 3.0 | 3.0 |
| | 120 | 3.2 | 3.2 |
| | 130 | 3.5 | 3.5 |
| | 140 | 3.8 | 3.8 |
| | 150 | 4.1 | 4.1 |

(b) For capacitor energy storage equipment, compliance shall be determined with ~~((neither the minimum nor the maximum quantity of charge per))~~ the system fully charged and a setting of at least 10 mAs for each exposure.

(c) The required minimal half-value layer shall include the filtration contributed by materials permanently in position between the focal spot of the tube and the patient. (For example, a table top when the tube is mounted "under the table" and inherent filtration of the tube)

(d) Filtration control. For x-ray systems with variable kVp and variable filtration for the useful beam, a device shall link the kVp selector with the filters and shall prevent an exposure unless the minimum amount of filtration required by subdivision (a) of this subsection is in the useful beam for the selected kVp.

(6) *Multiple tubes.* Where two or more radiographic tubes are controlled by one exposure switch, the tube or tubes selected shall be clearly indicated prior to initiation of the exposure. Such indication shall be both on the x-ray control panel and near or on the selected tube housing assembly.

(7) *Mechanical support of tube head.* The tube housing assembly supports shall be adjusted such that the tube housing assembly remains stable during an exposure unless the tube housing movement during exposure is a designed function of the x-ray system.

(8) *Technique indicators.*

(a) The technique factors used during an exposure shall be indicated before the exposure begins, except when automatic exposure controls are used, in which case the technique factors set prior to the exposure shall be indicated.

(b) On equipment having fixed technique factors, the requirement, under subdivision (a) of this subsection may be met by permanent markings. Indication of technique factors shall be visible from the operator's position except in the case of spot films made by the fluoroscopist.

(9) Certified units. All diagnostic x-ray systems certified to comply with 21 CFR 1020 shall meet the requirements of that certification.

(10) Linearity. The difference between the ratio of exposure to mAs at one mA or mAs setting and the ratio at another mA or mAs setting shall not exceed 0.10 times the sum of the ratios. This is written as:

$$X_1 - X_2 \leq 0.10 (X_1 + X_2)$$

Where X1 and X2 are the ratios (mR/mAs) for each mA or mAs station.

The test shall be performed at any selections of mA or mAs without regard to focal spot size, provided neither focal spot size is less than 0.45 millimeter.

(11) kVp accuracy. The difference between the indicated and actual kVp of an x-ray machine shall not be greater than ten percent of the indicated kVp, or, alternatively, if available, the accuracy specifications of the control panel manufacturer must be met.

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-225-050 Fluoroscopic x-ray systems. Fluoroscopic x-ray systems shall meet the following requirements:

(1) Limitation of useful beam.

(a) The fluoroscopic tube shall not produce x-rays unless the primary barrier is in position to intercept the entire useful beam at all times.

(b) The entire cross section of the useful beam shall be intercepted by the primary protective barrier of the fluoroscopic image assembly at any source-to-image-distance (SID).

(c) Nonimage-intensified fluoroscopic equipment shall not be used.

(d) For ~~((image-intensified))~~ fluoroscopic equipment without a spot film device, neither the length nor the width of the fluoroscopic x-ray field in the plane of the image receptor shall exceed that of the visible area of the image receptor by more than three percent of the SID. The sum of the excess length and the excess width shall be no greater than four percent of the SID. Measurements shall be made at the minimum SID available but at no less than ~~((eight))~~ 20 centimeters (8 inches) table top to image receptor distance.

(e) For uncertified ~~((image-intensified))~~ fluoroscopic equipment with a spot film device, the fluoroscopic x-ray beam with the shutters wide open (during either fluoroscopy itself or spot films) shall be no larger than the dimensions of the largest spot film size for which the device is designed. Measurements shall be made at the minimum SID available, but at no less than ~~((eight))~~ 20 centimeters (8 inches) table top to the film plane distance.

(f) For certified (21 CFR 1020) ~~((image-intensified))~~ fluoroscopic equipment with a spot film device, neither the length nor the width of the fluoroscopic x-ray field in the plane of the image receptor shall exceed that of the visible area of the image receptor by more than three percent of the SID. The sum of the excess length and width shall be no greater than four percent of the SID. Measurements shall be made at the minimum SID available, but at no less than

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~~((eight))~~ 20 centimeters (8 inches) table top to film plane distance.

(g) Fluoroscopic equipment beam limitation:

(i) Means shall be provided to reduce the beam size at the plane of the image receptor to 125 square centimeters or less; and

(ii) The minimum field size at the greatest SID shall be equal to or less than 5 centimeters by 5 centimeters.

(2) *Activation of the fluoroscopic tube.* X-ray production in the fluoroscopic mode shall be controlled by a deadman switch.

(3) *Entrance exposure rate allowable limits.*

(a) For equipment with or without automatic brightness control, the exposure rate measured at the point where the center of the useful beam enters the patient shall not exceed 2.58×10^{-3} coulombs per kilogram per minute (ten roentgens per minute), except during film recording of fluoroscopic images or when an optional high level control (HLC) is activated.

(b) For equipment provided with HLC, the equipment shall not be operable at a combination of tube potential and current which will result in an exposure rate in excess of 1.29×10^{-3} coulombs per kilogram per minute (5 roentgens per minute) at the point where the center of the useful beam enters the patient, unless the HLC is activated.

(i) Special means of activation of high level controls, such as additional pressure applied continuously by the operator, shall be required to avoid accidental use.

(ii) A continuous signal audible to the fluoroscopist shall indicate the high level control is employed.

(c) Measuring compliance of entrance exposure rate limits. Compliance with subsection (3) of this section shall be determined as follows:

(i) Movable grids and compression devices shall be removed from the useful beam during the measurement;

(ii) If the source is below the table, exposure rate shall be measured 1 centimeter above the table top or cradle;

(iii) If the source is above the table, the exposure rate shall be measured at 30 centimeters above the table top with the end of the beam-limiting device or spacer positioned as closely as possible to the point of measurement;

(iv) In a C-arm type of fluoroscope, the exposure rate shall be measured 30 centimeters from the input surface of the fluoroscopic imaging assembly, with the source positioned at any available SID, provided the end of the beam-limiting device or spacer is no closer than 30 centimeters from the input surface of fluoroscopic imaging assembly; and

(v) In a lateral-type fluoroscope, the exposure rate shall be measured at a point 15 centimeters from the center line of the x-ray ~~((source))~~ table with the end of the beam-limiting device or spacer positioned as closely as possible to the point of measurement. If the table top is movable, the table top shall be positioned as closely as possible to the lateral x-ray source, with the end of the beam-limiting device or spacer no closer than 15 centimeters to the center line of the x-ray table.

(d) Periodic measurement of entrance exposure rate limits.

(i) Periodic measurements of the exposure rate shall be made. An adequate period for such measurements shall be

annually or after maintenance of the system affecting the exposure rate.

(ii) Results of exposure rate measurements shall be available where the fluoroscopist has ready access to the measurements while using that fluoroscope. Results of the measurements shall include:

(A) The maximum possible coulombs per kilogram per minute (R/minute), as well as the ~~((physical factors used to determine data))~~ technique factors associated with it;

(B) The name of the person performing the measurements;

(C) The last ~~((two))~~ date~~((s))~~ the measurements were performed; and

(D) The type of device used in making the measurements.

(iii) Conditions of measurement:

(A) The kVp shall be adjusted to that which will produce the maximum entrance exposure rate;

(B) The high level control, if present, shall not be activated;

(C) The x-ray systems that incorporate automatic exposure rate control (automatic brightness control) shall have sufficient material, for example, lead or lead equivalence, placed in the useful beam to produce the maximum output of the x-ray system; and

(D) X-ray systems not incorporating automatic exposure rate control shall utilize ~~((the maximum milliamperage))~~ whatever combination of kVp, mA, and other selectable parameters that will generate the highest exposure rate of the x-ray system. Materials, for example, an attenuation block, may be placed in the useful beam to protect the imaging system, as long as the material does not affect the measurement of the exposure rate.

(4) *Barrier transmitted radiation rate limits.*

(a) The exposure rate due to transmission through the primary protective barrier with the attenuation block in the useful beam, combined with radiation from the image intensifier, if provided, shall not exceed 5.16×10^{-7} coulombs per kilogram per hour (2 milliroentgens per hour) for each 2.58×10^{-4} coulombs per kilogram per minute (roentgen per minute) of entrance exposure rate. The barrier transmission measurement shall be made at 10 centimeters from an accessible surface of the fluoroscopic imaging assembly beyond the plane of the image receptor.

(b) Measuring compliance of barrier transmission.

(i) The exposure rate due to transmission through the primary protective barrier combined with radiation from the image intensifier shall be determined by measurements averaged over an area of 100 square centimeters with no linear dimension greater than 20 centimeters.

(ii) If the source is below the table top, the measurement shall be made with the input surface of the fluoroscopic imaging assembly positioned 30 centimeters above the table top.

(iii) If the source is above the table top and the SID is variable, the measurement shall be made with the end of the beam-limiting device or spacer as close to the table top as it can be placed, provided the beam-limiting device or spacer shall not be closer than 30 centimeters.

(iv) Movable grids and compression devices shall be removed from the useful beam during the measurement.

(5) *Indication of potential and current.* During fluoroscopy and cinefluorography, x-ray tube potential and current shall be continuously indicated.

(6) *Source-skin distance (SSD).* The source to skin distance shall not be less than:

- (a) 38 centimeters on stationary fluoroscopes;
- (b) 30 centimeters on mobile fluoroscopes; and
- (c) 20 centimeters for image intensified fluoroscopes used for specific surgical application. The user must provide precautionary measures for the use of the fluoroscope due to its short SSD.

(7) *Fluoroscopic timer.*

(a) Means shall be provided to preset the cumulative on-time of the fluoroscopic tube. The maximum cumulative time of the timing device shall not exceed five minutes without resetting.

(b) A signal audible to the fluoroscopist shall indicate the completion of a preset cumulative on-time. Such signal shall continue to sound while x-rays are produced until the timing device is reset. Alternatively, the timing device may terminate exposures at the end of the preset time.

(c) Total fluoroscopic on-time for each patient shall be recorded, either in patient's chart or in a separate log.

(8) *Control of scattered radiation.*

(a) Fluoroscopic table designs when combined with normal operating procedures shall be such that no unprotected part of staff or ancillary person's body shall be exposed to unattenuated scattered radiation which originates from under the table. The attenuation required shall be not less than 0.25 mm lead equivalent.

(b) Equipment configuration when combined with procedures shall be such that no portion of staff or ancillary person's body, except the extremities, shall be exposed to the unattenuated scattered radiation emanating from above the table top unless:

(i) The radiation has passed through not less than 0.25 mm lead equivalent material, for example, drapes, Bucky-slot cover-sliding or folding panel, or self-supporting curtains, in addition to lead equivalency provided by the protective apron referred to under WAC 246-225-020 (2)(e); and

(ii) Exceptions to subdivision (b) of this subsection may be made in some special procedures where a sterile field will not permit the use of the normal protective barriers. Where the use of prefitted sterilized covers for the barriers is practical, the department shall not permit such exception.

(9) *Radiation therapy simulation systems.* Radiation therapy simulation systems shall be exempt from the requirements of subsection((s)) (3)((-4), and (-7)) of this section(~~(- Provided, That:)~~). In addition, these systems shall be exempt from:

(a) Subsections (1) and (4) of this section provided such systems are designed and used in such a manner that no individual other than the patient is in the x-ray room when the system is producing x-rays; and

(b) ~~((The systems not meeting the requirements of))~~ Subsection (7) of this section if such systems are provided with a means of indicating the cumulative time ((during which)) that an individual patient has been exposed to x-rays. ((The timer shall be reset between examinations in such cases:))

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-225-150 X-ray film developing requirements. Compliance with this section is required of healing arts registrants and is designed to ensure the patient and operator exposure is minimized, and to produce optimum image quality and diagnostic information.

(1) Manual processing of films:

(a) The following relationship between temperature of the developer and development time must be used (standard chemistry only):

| THERMOMETER READINGS (DEGREES) | | MINIMUM DEVELOPING TIMES (MINUTES) |
|-----------------------------------|----|--|
| C | F | |
| 27 - | 80 | 2 |
| | 79 | 2 |
| | 78 | 2 1/2 |
| | 77 | 2 1/2 |
| 24 - | 76 | 3 |
| | 75 | 3 |
| | 74 | 3 1/2 |
| | 73 | 3 1/2 |
| 22 - | 72 | 4 |
| | 71 | 4 |
| | 70 | 4 1/2 |
| | 69 | 4 1/2 |
| 20 - | 68 | 5 |
| | 67 | 5 1/2 |
| | 66 | 5 1/2 |
| | 65 | 6 |
| 18 - | 64 | 6 1/2 |
| | 63 | 7 |
| | 62 | 8 |
| | 61 | 8 1/2 |
| 16 - | 60 | 9 1/2 |

(b) *Processing of film.* All films shall be processed to achieve adequate sensitometric performance. This criterion shall be adjudged met if:

(i) Film manufacturer's published recommendations for time and temperature are followed; or

(ii) Each film is developed in accordance with the time-temperature chart as required under subdivision (a) of this subsection.

(c) Devices shall be available giving:

(i) The actual temperature of the developer; and

(ii) An audible or visible signal indicating the termination of a preset time (in minutes).

(d) Chemical-film processing control.

(i) Chemicals shall be mixed in accordance with the chemical manufacturer's recommendations.

(ii) Developer replenisher shall be periodically added to the developer tank based on the recommendations of the chemical or film manufacturer. Solution may be removed from the tank to permit the addition of an adequate volume of replenisher.

(iii) All processing chemicals shall be completely replaced at least every two months.

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(2) Automatic film processors shall be set up and maintained so radiographic density and contrast are optimal. This criterion shall be adjudged met if:

(a) Film manufacturer's published specifications for time and temperature are followed. In the absence of such specifications, the film shall be developed using the following chart:

| MINIMAL REQUIRED DEVELOPER TEMPERATURE | | PROCESSOR DEVELOPER IMMERSION TIME* |
|--|----|-------------------------------------|
| °C | °F | Seconds |
| 35 | 95 | 20 |
| 34.5 | 94 | 21 |
| 34 | 93 | 22 |
| 33.5 | 92 | 23 |
| 33 | 91 | 24 |
| 32 | 90 | 25 |
| 31.5 | 89 | 26 |
| 31 | 88 | 27 |
| 30.5 | 87 | 28 |
| 30 | 86 | 29 |
| 29.5 | 85 | 30 |

*Immersion time only, no cross-over time included.

The specified developer temperature and immersion time shall be posted in the dark room or on the automatic processor; and

(b) Replenishment of the developer chemistry is optimal:

(i) The processor shall deliver an adequate rate of developer replenishment; and

(ii) For facilities with a low x-ray workload, standby replenishment, flood replenishment, or periodically sending (~~blank~~) prefixed films through the processor may be necessary.

(c) Sensitometric tests of processor performance demonstrate the processor is achieving radiographic density and contrast equal to other processor models operating at equivalent developer immersion time and developer temperatures and using comparable chemistry.

(3) *Darkrooms.* Darkrooms shall be constructed so film being processed, handled, or stored will be exposed only to light passed through a safelight filter. The filter shall be of the type specified by the film manufacturer. Bulb wattage in the safelight shall be no greater than fifteen watts. The safelight shall be mounted at least 1.2 meters (four feet) above work areas.

(4) The department shall make x-ray film development and darkroom tests as necessary to determine compliance with this section.

AMENDATORY SECTION (Amending Order 240, filed 2/7/92, effective 3/9/92)

WAC 246-225-160 Mammography. (1) The use of a special purpose x-ray machine designed and used solely for mammography is required. Exempted from this requirement shall be (~~general purpose~~) x-ray equipment (~~used for~~) using xerography (that meets these regulations) for evaluation of breast implant integrity. (~~This exemption is in effect until January 1, 1994.~~)

(2) All mammographic calibration, evaluation, service, and quality control actions shall be documented in writing and maintained at the facility for a three-year period. Records must be easily accessible to operators of these x-ray units.

(3) All tests requiring the use of a breast phantom shall employ a phantom similar to or identical to the one required by the American College of Radiology for its mammography accreditation program.

(4) Machine requirements:

(a) Mammography x-ray machines must be (~~calibrated~~) evaluated upon any major component change and on a yearly basis by a qualified medical physicist. (~~Calibration~~) Evaluation shall document (but is not limited to) half-value layer (HVL), kVP accuracy, reproducibility, timer accuracy, resolution achieved with film in use at the facility, focal spot size, mA linearity, light versus x-ray field alignment, and patient exposures (glandular tissue dose) following the measurement protocol in NCRP Report No. 85 (using a breast phantom). This requirement shall include initial acceptance testing upon the x-ray system's installation prior to human use.

(b) The half-value layer (HVL) for film/screen mammography shall be (~~at least 0.30 mm of aluminum (and shall not exceed 0.40 mm) as measured at 30 kVP~~) between the values of measured kVp/100 and measured kVp/100 + 0.1 millimeters aluminum. The half-value layer for xerography shall be at least 1.2 mm but no greater than 1.6 mm of aluminum as measured at 50 kVP. The HVL shall include the contribution to filtration made by the compression device.

(c) Exposure reproducibility: Manual techniques. See WAC 246-225-090.

(d) Exposure reproducibility: Photo-timed techniques. (~~A breast phantom shall be used to obtain a series of four photo-timed radiographs (all selectable machine parameters shall be held constant). Optical density (O.D.) of a selected area on the image in the range of 1.0-2.0 O.D. shall be analyzed and the measurements for these films shall be within 0.10 O.D. of each other.~~) Mammographic systems in the AEC mode shall be able to maintain constant film density to within an optical density of ± 0.3 of the average optical density over the range of clinically used kVps, using BR-12 or other breast equivalent material phantom thicknesses of 2 centimeters to 6 centimeters. If the facility has established a technique chart that utilizes varying technical factors for different breast thicknesses, those adjustments in technique may be used when complying with this requirement.

(e) Radiographic timers. See WAC 246-225-070.

(f) kVP accuracy: The kVP accuracy published by the x-ray machine manufacturer shall be maintained at the specified level. For determination of actual versus indicated kVP, the manufacturer's recommendations for testing shall be followed.

(g) mA linearity. See WAC 246-225-040(10).

(h) All special purpose x-ray machines designed solely for mammography and installed after January 1, 1992, shall be equipped with a milli-ampere-second (mAs) read-out device, registering after each phototimed exposure. Alternatively, a means of determining mAs after each exposure shall be provided.

(i) Beam limitation:

(i) Mammographic systems shall be provided with means to limit the useful beam such that the x-ray field at the plane of the image receptor does not extend beyond any edge of the image receptor at any designed SID except the edge of the image receptor designed to be adjacent to the chest wall where the x-ray field may not extend beyond such edge by more than two percent of the SID.

(ii) Beam limiting devices consisting of an assortment of fixed, removable cones sufficient to meet the requirement for each combination of image receptor size and SID for which the unit is designed shall have clear and permanent markings to indicate the image receptor size and SID for which it is designed.

(iii) When the beam limiting device and image receptor support device are designed to be used to immobilize the breast during a mammographic procedure and the SID may vary, the SID indication specified in WAC 246-225-060 (4)(c)(i) and (ii) shall be the maximum SID for which the beam limiting device or aperture is designed.

(iv) In the absence of a visually defined x-ray field each image receptor support shall have clear and permanent markings to indicate the maximum image receptor size for which it is designed.

(j) The combination of source-to-image distance, magnification, and focal spot size shall result in a radiographic resolution of at least 12 line pairs per millimeter. This standard applies to the ~~((routine))~~ mammographic, single emulsion film being used at the facility.

(k) The x-ray machine shall be equipped with a means of immobilizing and compressing the breast with a force of at least twenty-five pounds but no greater than ~~((fifty))~~ forty pounds.

(l) Dedicated mammographic x-ray units are exempted from the requirements of WAC 246-225-030 (5)(b)(i) provided that appropriate operator shielding is employed (as defined by NCRP Report 49).

(m) Transmission limit for image receptor supporting devices used for mammography. For x-ray systems manufactured after September 5, 1978, which are designed only for mammography, the transmission of the primary beam through any image receptor support provided with the system shall be limited such that the exposure 5 centimeters from any accessible surface beyond the plane of the image receptor supporting device does not exceed 25.8 nanocoulombs per kilogram (0.1 milliroentgen) ~~((25.8 nC/kg))~~ for each activation of the tube. Exposure shall be measured with the system operated at the minimum SID for which it is designed. Compliance shall be determined at the maximum rated peak tube potential for the system and at the maximum rated product of tube current and exposure time (mAs) for that peak tube potential. Compliance shall be determined by measurements averaged over an area of 100 square centimeters with no linear dimension greater than 20 centimeters.

(n) Maximum glandular doses. Glandular tissue dose for a cranio-caudal view of a 4.5 cm compressed breast using dose calculation methods found in NCRP Report # 85 shall not exceed the following:

Screen-film:

No grid = 1.5 milliGray (100 millirads)/projection

Grid = 2.5 milliGray (300 millirads)/projection

Xerox = 4.0 milliGray (400 millirads)/projection

(5) A quality control program shall be written and implemented for all mammographic facilities. This shall include (but shall not be limited to) tests performed, testing frequency, testing protocol, control limits for each test, corrective actions taken, and equipment maintenance/service. Program requirements include:

(a) Daily tests:

Film processor control charts using a sensitometric/densitometric based measurement system shall be required for each day the mammographic machine is in operation. Single emulsion mammographic film shall be used for this evaluation. The sensitometer shall be one with a 21-step optical attenuator.

Parameters in daily film processor tests shall include:

(i) Speed index (mid-density):

Control limits ± 0.15 optical density

(ii) Contrast index (density difference):

Control limits ± 0.15 optical density

(iii) Base + fog:

Maximum density shall not exceed 0.20 optical density.

(iv) Solution temperatures~~((±))~~, using a digital thermometer that reads out in tenths of a degree and that is accurate to within $\pm 0.5^\circ\text{F}$.

Control limits ± 1.0 F

(b) Monthly tests:

(i) Chemical replenishment rates.

(ii) ~~((Breast phantom imaging shall visualize a minimum of four fibers, three masses, and three speck groups, or the minimum acceptability standard of the American College of Radiology in its accreditation program, whichever is more restrictive))~~ Image quality evaluation. The mammographic system shall be capable of providing an image of a 0.75 mm fiber, 0.32 mm speck group, and a 0.75 mm mass from an ACR, or equivalent, phantom on the standard mammographic image receptor system in use at the facility. Mammograms shall not be taken on patients if this minimum is not met. Any fibers, speck groups or masses larger than those specified shall also be imaged.

(c) Quarterly tests:

(i) Film/screen contact for all cassettes, using a 40-mesh copper screen.

(ii) Analyses of reject/repeat films.

(iii) Fixer retention in processed film.

(d) Semi-annual tests:

(i) Darkroom fog.

(ii) Compression device force.

(e) Yearly tests: See WAC 246-225-160 (4)(a) ~~((Calibration))~~.

~~((e))~~ (f) Cassette screens must be cleaned at least weekly.

~~((f))~~ (g) Records shall be maintained for quality control test equipment which requires calibration, and such calibrations shall be performed in accordance with recommendations of the manufacturer of the test equipment.

~~((g))~~ (h) Film processing. See WAC 246-225-150. A film processor that cannot be consistently made to operate within the control limits specified in (a) of this subsection shall not be used to process mammographic films.

(6) Operator competency:

(a) A mammographic machine operator shall be licensed, certified, or registered by the department as either:

(i) A health care practitioner, licensed under Title 18 RCW, if performing mammography is within the person's authorized scope of practice; or

(ii) A diagnostic radiologic technologist certified in accordance with chapter 18.84 RCW; or

(iii) An x-ray technician registered in accordance with chapter 18.84 RCW, with two or more years' experience in performing mammography and satisfactory completion of ~~((two or more classes in mammography approved))~~ at least sixteen hours of training in mammographic positioning, mammographic quality assurance, and/or other related areas subject to approval by the department.

(b) A mammographic machine operator shall complete the equivalent of at least ~~((one mammography class per calendar year; the class is))~~ eight hours of training every twelve months covering such areas as mammographic positioning, mammographic quality assurance and other related areas subject to approval by the department.

(c) A mammographic machine operator shall meet the requirements of WAC 246-225-020 (2)(b) and 246-225-99920.

(7) Masking devices shall be made available to block extraneous light from the viewer's eye when the illuminated surface of the viewbox is larger than the ~~((image area))~~ exposed area on the film.

(8) Additional requirement for mobile mammography services:

The daily film processor performance testing required in subsection (5)(a) of this section shall apply to all film processors used by the mobile service. No processor shall be used unless it meets the control limits specified by subsection (5)(a)(i) through (iv) of this section.

AMENDATORY SECTION (Amending Order 183, filed 7/23/91, effective 8/23/91)

WAC 246-225-99910 Appendix I—Good practices. The following are included in this handbook of regulations as suggested good practices and are not intended to be a regulation. The topics presented in these good practices may, however, become incorporated into the Washington Administrative Code at a future date.

(1) Exchange of information. Because patient exposure to diagnostic x-rays is the most predominant source of exposure to artificially produced ionizing radiation, radiographs should be exchanged among the practitioners of the various healing arts. Such exchange can only benefit patients by reducing the unnecessary repeated exposures of patients who are referred to, or change to, other practitioners.

(2) Patient exposure guidelines. The following patient exposure values should be achievable with high speed image receptor systems, proper filtration, a reasonable radiographic density preference, proper choice of ~~((kVp))~~ technique factors, and proper film development. State radiation safety surveyors can provide registrants with results of measurements of patient exposure values upon request.

Dental Bitewing (D-Speed Film)*

| KVP Range Utilized | Upper Limit of Skin Entrance Exposure, mR |
|--------------------|---|
| 50 - 64 | 350 |
| 65 - 70 | 300 |
| 71 - 80 | 250 |
| 81 - 90 | 200 |

Medical (400 Speed Imaging System)*

| Exam* | Upper Limit of Skin Entrance Exposure, mR |
|---------------------|---|
| Abdomen (AP) | 300 |
| Lumbar spine (AP) | 350 |
| Cervical spine (AP) | 95 |
| Full spine (AP) | 150 |
| Skull (LAT) | 70 |
| Chest (PA) | 10 (Nongrid), 15 (Grid) |

*On average-size adult patients

**Chapter 246-227 WAC
RADIATION PROTECTION—INDUSTRIAL X-RAY**

NEW SECTION

WAC 246-227-001 Purpose. The regulations in this chapter establish radiation safety requirements for persons utilizing x-ray machines for industrial radiography. The requirements of this part are in addition to and not in substitution for the other requirements of these regulations.

NEW SECTION

WAC 246-227-010 Scope. The regulations in this chapter apply to all registrants who use x-ray machines for industrial radiography: *Provided, however,* That nothing in this part shall apply to the use of sources of radiation in the healing arts.

NEW SECTION

WAC 246-227-020 Definitions. As used in this part: (1) "Enclosed radiography" means industrial radiography employing radiation machines conducted in an enclosed cabinet or room and includes cabinet radiography and shielded room radiography.

(a) "Cabinet radiography" means industrial radiography employing radiation machines conducted in an enclosure or cabinet so shielded that every location at the exterior of the enclosure or cabinet meets the condition specified in WAC 246-221-060.

"Cabinet x-ray system" means an x-ray system with the x-ray tube installed in an enclosure (hereinafter termed "cabinet") which, independently of existing architectural structure except the floor on which it may be placed, is intended to contain at least that portion of a material being irradiated, provide radiation attenuation, and exclude personnel from its interior during generation of x-radiation. Included are all x-ray systems designed primarily for the inspection of carry-on baggage at airline, railroad, and bus

PERMANENT

terminals, and in similar facilities. An x-ray tube used within a shielded part of a building, or x-ray equipment which may temporarily or occasionally incorporate portable shielding is not considered a cabinet x-ray system.

(b) "Shielded-room radiography" means industrial radiography conducted in a room so shielded that every location on the exterior of the room meets the conditions specified in WAC 246-221-060.

(2) "Industrial radiography" means the examination of the macroscopic structure of materials by nondestructive methods utilizing x-ray machines. Industrial radiography as used in this chapter does not include well logging operations.

(3) "Permanent radiographic installation" means an installation in which the shielding is an integral part to the building structure, such that the radiographic operations conducted there are not mobile and not temporary.

(4) "Personal supervision" means supervision by a radiographer such that the radiographer is physically present at the radiography site and in such proximity that communication can be maintained and immediate assistance given as required.

(5) "Radiographer" means any individual who performs or who, in attendance at the site where x-ray machines are being used, personally supervises industrial radiographic operations and who is responsible to the registrant for assuring compliance with the requirements of these regulations.

(6) "Radiographer's assistant" means any individual who, under the personal supervision of a radiographer, uses radiation machines, or radiation survey instruments in industrial radiography.

NEW SECTION

WAC 246-227-040 Radiation survey instruments.

(1) The registrant shall maintain sufficient calibrated and operable radiation survey instruments to make physical radiation surveys as required by this part and chapter 246-221 WAC. Instrumentation required by this section shall have a range such that two milliroentgens per hour through one roentgen per hour can be measured.

(2) Each radiation survey instrument shall be calibrated:

(a) At energies appropriate for use and at intervals not to exceed three months and after each instrument servicing;

(b) Such that accuracy within \pm twenty percent traceable to a national standard can be demonstrated; and

(c) At two or more widely separated points, other than zero, on each scale.

(3) Records of these calibrations shall be maintained for three years after the most recent calibration date.

(4) The requirements of this section do not apply to registrants using only radiation machines in enclosed radiographic systems.

NEW SECTION

WAC 246-227-050 Utilization and survey records.

(1) Each registrant shall maintain records of the following information for three years after the date of each radiographic operation and shall maintain these records for inspection by the department:

(a) A description (or make and model number) of the radiation machine used along with the techniques utilized for each job;

(b) The identity of the radiographer and radiographer's assistant performing the work;

(c) Locations where used and dates of use;

(d) A physical radiation survey made of the boundary of the restricted area during radiographic operations. The maximum reading at the boundary shall be recorded. The records shall indicate approximate distance from source to boundaries and any occupied areas with exposure levels greater than 2 mR in any hour during radiographic operations; and

(e) The model and serial number of the survey meter used in (d) of this subsection.

(2) The requirements of subsection (1) of this section shall not apply in industrial radiography utilizing radiation machines in enclosed interlocked cabinets or rooms which are not occupied during radiographic operations, which are equipped with interlocks such that the radiation machine will not operate unless all openings are securely closed and which is so shielded that every location on the exterior meets conditions for an unrestricted area, as specified in WAC 246-221-060.

NEW SECTION

WAC 246-227-060 Limitations—Personal radiation safety requirements for radiographers and radiographer's assistants. (1) No registrant shall permit any individual to act as a radiographer as defined in this chapter until such individual:

(a) Has been instructed in the subjects outlined in WAC 246-227-170;

(b) Has received copies of and instruction in the regulations contained in chapters 246-220, 246-222, 246-221 and 246-227 WAC, and the registrant's operating and emergency procedures, and shall have demonstrated understanding thereof;

(c) Has demonstrated competence to use the radiation machine and the radiation survey instruments which will be employed in the individual's assignment; and

(d) Has demonstrated understanding of the instructions in this paragraph by successful completion of written test or oral test on the subjects covered.

(2) No registrant shall permit any individual to act as a radiographer's assistant as defined in this part until such individual:

(a) Has received copies of an instruction in the registrant's operating and emergency procedures;

(b) Has demonstrated competence to use, under the personal supervision of the radiographer, the radiation survey instruments which will be employed in the individual's assignment;

(c) Has demonstrated understanding of the instructions in this paragraph by successfully completing a written or oral test.

(3) Each registrant shall maintain records of training and testing which demonstrate that the requirements of subsections (1) and (2) of this section are met. These records shall be retained for at least one year following termination of employment.

(4) When a radiographer's assistant is using an x-ray machine, the radiographer shall maintain direct surveillance.

NEW SECTION

WAC 246-227-070 Operating and emergency procedures. The registrant's operating and emergency procedures shall include instructions in at least the following:

(1) The handling and use of radiation machines to be employed such that no individual is likely to be exposed to radiation doses in excess of the limits established in chapter 246-221 WAC;

(2) Methods and occasions for conducting radiation surveys;

(3) Methods for controlling access to radiographic areas;

(4) Methods and occasions for locking or securing radiation machines;

(5) Personnel monitoring and the use of personnel monitoring equipment including steps that must be taken immediately by radiography personnel in the event a pocket dosimeter is found to be off-scale;

(6) The procedure for notifying proper personnel in the event of a theft, loss, overexposure or accident involving a radiation machine; and

(7) Maintenance of records.

NEW SECTION

WAC 246-227-080 Personnel monitoring control.

(1) No registrant shall permit any individual to act as a radiographer or as a radiographer's assistant unless, at all times during radiographic operations, each such individual shall wear a film or TLD badge and a direct reading pocket dosimeter. Pocket dosimeters shall be capable of measuring exposures from zero to at least two hundred milliroentgens. A film or TLD badge shall be assigned to and worn by only one individual.

(2) Pocket dosimeters shall be read and doses recorded daily. Pocket dosimeters shall be charged at the beginning of each working day. Pocket dosimeters shall be checked at least annually for correct response to radiation. Acceptable dosimeters shall read within \pm thirty percent of the true radiation exposure. A film or TLD badge shall be immediately processed if a pocket dosimeter is discharged beyond its range during normal use. The film or TLD badge reports received from the film or TLD badge processor and records of pocket dosimeter readings shall be maintained until the department authorizes their disposal.

(3) The requirements for use of pocket dosimeter or pocket chamber shall not apply in industrial radiography utilizing radiation machines in enclosed interlocked cabinets or rooms which are not occupied during radiographic operations, which are equipped with interlocks such that the radiation machine will not operate unless all openings are securely closed and which are so shielded that every location on the exterior meets conditions for an unrestricted area, as specified in WAC 246-221-060.

(4) The requirement for film badges or TLDs do not apply to those users of cabinet x-ray systems which do not allow human access and which meet the requirements of WAC 246-227-130.

NEW SECTION

WAC 246-227-090 Security—Precautionary procedures in radiographic operations. (1) During each radiographic operation, the radiographer or radiographer's assistant shall maintain a direct surveillance of the operation to protect against unauthorized entry into a high radiation area, as defined in chapter 246-220 WAC except:

(a) Where the high radiation area is equipped with a control device or alarm system as described in WAC 246-221-120 (1)(e)(ii); or

(b) Where the high radiation area is locked to protect against unauthorized or accidental entry.

(2) When not in operation or when not under direct surveillance, radiation machines shall be secured to prevent use by unauthorized personnel.

NEW SECTION

WAC 246-227-095 Posting. Notwithstanding any provisions in WAC 246-221-130, areas in which radiography is being performed shall be conspicuously posted and access to the area shall be controlled as required by WAC 246-221-120. This requirement shall not apply to areas using enclosed radiography systems (cabinets) which do not allow human access and in which the requirements of WAC 246-221-060 are met at the surface of the cabinet.

NEW SECTION

WAC 246-227-120 Other records required. Each registrant conducting industrial radiography shall have the following documents, where applicable, available on site for inspection by the department:

(1) Operating and emergency procedures;

(2) Applicable regulations;

(3) Survey records required pursuant to WAC 246-227-050;

(4) Daily pocket dosimeter records for the period of operation at the site pursuant to WAC 246-227-080; and

(5) Proof of the latest calibration for specific instruments in use at the site pursuant to WAC 246-227-040.

NEW SECTION

WAC 246-227-130 Special requirements for enclosed radiography. (1) Shielded room radiography systems and cabinet systems shall:

(a) Comply with all applicable requirements of this chapter and WAC 246-221-060;

(b) Be interlocked such that the exposure will terminate if a door or port accessible to individuals is opened during the exposure, except for those systems employing conveyor belts or sample ports; and

(c) Be tested for the proper operation of interlocks, high radiation area control devices or alarm systems, where applicable, at the beginning of each day of use. The results of these tests shall be recorded and maintained for three years.

(2) The registrant shall perform an evaluation, at intervals not to exceed one year, to determine conformance with this chapter and WAC 246-221-060. Records of each evaluation shall be maintained for three years.

NEW SECTION

WAC 246-227-150 Special requirements for permanent radiographic installation. Permanent radiographic installations having high radiation area entrance controls of the types described in WAC 246-221-102(1) or where the high radiation area is locked to protect against unauthorized or accidental entry, shall also meet the following special requirements:

(1) Each entrance that is used for personnel access to the high radiation area in a permanent radiographic installation to which this section applies shall have both visible and audible warning signals to warn of the presence of radiation. The visible signal shall be actuated by radiation whenever the x-rays are exposed. The audible signal shall be actuated when an attempt is made to enter the installation while x-rays are being generated.

(2) Both visible and audible alarm systems are required and shall be tested prior to the first use of a source in the installation and thereafter at intervals not to exceed three months. Records of the tests shall be kept for three years.

(3) The department shall review and approve, in advance of construction, plans for permanent radiographic installations whose construction had not commenced by the effective date of these regulations. Construction of the permanent facility shall be in accordance with the plans approved by the department.

(4) A physical radiation survey shall be conducted and results recorded following construction or major modification of the facility to be used in the installation. Radiography shall not be conducted if exposure levels in unrestricted areas are greater than 2mR in any hour. Any increase in output capability of radiation machines will require resurvey of the installation prior to the conduct of industrial radiography.

NEW SECTION

WAC 246-227-170 Appendix A—Minimum subjects to be covered in training radiographers. (1) Fundamentals of radiation safety:

- (a) Characteristics of ionizing radiation;
- (b) Units of radiation dose (mrem) and quantity of radioactivity (curie);
- (c) Hazards of exposure to radiation:
 - (i) Radiation protection standards;
 - (ii) Biological effects of radiation dose;
- (d) Levels of radiation from x-ray machines;
- (e) Methods of controlling radiation dose:
 - (i) Working time;
 - (ii) Working distances;
 - (iii) Shielding.
- (2) Radiation detection instrumentation to be used:
 - (a) Use of radiation survey instruments:
 - (i) Operation;
 - (ii) Calibration;
 - (iii) Limitations;
 - (b) Survey techniques;
 - (c) Use of personnel monitoring equipment:
 - (i) Film badges;
 - (ii) Pocket dosimeters;
 - (iii) Thermoluminescent dosimeters.
- (3) Operation and control of x-ray equipment.

(4) The requirements of pertinent federal and state regulations.

(5) The registrant's written operating and emergency procedures.

(6) Case histories of radiography accidents.

NEW SECTION

WAC 246-235-055 Precedence of license condition over regulation. (1) A license condition may be used to specifically modify any regulation pertaining to the possession, use, storage, transfer, or disposal of radioactive material. Any license condition used to modify an existing regulation shall set forth the title, chapter, section, and, where applicable, any subsection and paragraph numbers for the regulation being modified, and fully define the nature and extent of the modification.

(2) In the event a regulation is changed, an existing license condition that is more restrictive than the new regulation remains in force until there is an amendment or renewal of the license that removes or modifies the license condition.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-235-130 Appendix—General laboratory rules for safe use of unsealed sources. (1) In addition to the requirements set forth in WAC 246-235-020, a specific licensee who uses unsealed, unplated and/or liquid sources (~~should~~) shall possess adequate facilities including ventilation systems which are compatible with the proposed uses: and,

(2) Possess, use, and store, radioactive materials in accordance with, but not limited to, the following:

(a) Receive, handle, and store radioactive materials only at specifically designated locations within the applicant's facility. Vessels containing radioactive material must be labeled as required by chapter 246-221 WAC.

(b) Wear disposable gloves at all times when handling dispersible radioactive material or potentially contaminated items.

(c) Wear personnel monitoring devices (film badge and/or TLD), when required, at all times when working with, or in the vicinity of, radioactive materials. Extremity doses shall be considered in evaluating the need for separate extremity dosimeters. (~~Calculations based on whole body badge results for photon emitters may be used in lieu of separate extremity dosimeters.~~) Extremity dosimetry should be worn when working with millicurie or greater quantities of material (excluding low energy beta emitters and pure alpha emitters). Monitoring devices, when not in use, shall be stored only in a designated low-background area. Calculations based on whole body badge results for photon emitters may be used in lieu of separate extremity dosimeters.

(d) Use remote tools, lead shields, lead-glass shields, and/or plexiglass shields as appropriate.

(e) Prohibit eating, chewing, drinking, smoking, and application of cosmetics in any area where radioactive material is used or stored.

(f) Do not store food, drink or personal effects in any area, container, or refrigerator designated for radioactive materials use or storage.

(g) Do not pipette radioactive materials or perform any similar operation by employing mouth suction.

(h) Use disposable absorbent material with impervious backing to cover work surfaces where spillage is possible.

(i) Properly dress and protect open wounds on exposed body surfaces before working with radioactive materials.

(j) Wear laboratory coats when working with radioactive material. Potentially contaminated laboratory coats shall not be worn outside the immediate work area.

(k) Nuclides in gaseous or volatile form, or with a high potential for volatilization (~~should~~) shall be used only in areas with adequate ventilation systems (~~which conform to the requirements of WAC 246-221-040 and 246-221-070~~).

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-243-010 Scope. The regulations in this chapter apply to all licensees (~~or registrants~~) who use sources of radiation for industrial radiography: *Provided, however,* That nothing in this part shall apply to the use of sources of radiation in the healing arts.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-020 Definitions. As used in this part:

(1) "Enclosed radiography" means industrial radiography employing (~~radiation machines~~) radiographic exposure devices conducted in an enclosed cabinet or room and includes cabinet radiography and shielded room radiography.

(a) "Cabinet radiography" means industrial radiography employing (~~radiation machines~~) radiographic exposure devices conducted in an enclosure or cabinet so shielded that every location at the exterior meets the conditions specified in WAC 246-221-060 of these regulations.

~~((i) "Cabinet x ray system" means an x ray system with the x ray tube installed in an enclosure (hereinafter termed "cabinet") which, independently of existing architectural structure except the floor on which it may be placed, is intended to contain at least that portion of a material being irradiated, provide radiation attenuation, and exclude personnel from its interior during generation of x radiation. Included are all x ray systems designed primarily for the inspection of carry on baggage at airline, railroad, and bus terminals, and in similar facilities. An x ray tube used within a shielded part of a building, or x ray equipment which may temporarily or occasionally incorporate portable shielding is not considered a cabinet x ray system.))~~

(b) "Shielded-room radiography" means industrial radiography conducted in a room so shielded that every location on the exterior meets the conditions specified in WAC 246-221-060 of these regulations.

(2) "Industrial radiography" means the examination of the macroscopic structure of materials by nondestructive methods utilizing sources of radiation. Industrial radiography as used in this chapter does not include well logging operations.

(3) "Permanent radiographic installation" means a shielded installation or structure designed or intended for

radiography employing a radiographic exposure device and in which radiography is regularly performed, regardless of ownership.

(4) "Personal supervision" means supervision by a radiographer such that the radiographer is physically present at the radiography site and in such proximity that communication can be maintained and immediate assistance given as required. When a radiographer's assistant is using or handling sources of radiation, the radiographer must maintain direct surveillance.

(5) "Radiographer" means any individual who performs or who, in attendance at the site where sources of radiation are being used, personally supervises industrial radiographic operations and who is responsible to the licensee (~~or registrant~~) for assuring compliance with the requirements of these regulations and all license conditions.

(6) "Radiographer's assistant" means any individual who, under the personal supervision of a radiographer, uses sources of radiation, related handling tools, or radiation survey instruments in industrial radiography.

(7) "Radiographic exposure device" means any instrument containing a sealed source fastened or contained therein, in which the sealed source or shielding thereof may be moved, or otherwise changed, from a shielded to unshielded position for purposes of making a radiographic exposure.

(8) "Shielded position" means the location within the radiographic exposure device or storage container which, by manufacturer's design, is (~~in one~~) the proper location for storage of the sealed source.

(9) "Source changer" means a device designed and used for replacement of sealed sources in radiographic exposure devices, including those also used for transporting and storage of sealed sources.

(10) "Storage container" means a device in which sealed sources are transported or stored.

(11) Temporary job site refers to any location which is not specifically authorized and described in a license (~~or registration~~).

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-243-040 Equipment control. (1) Equipment used in industrial radiography operations must meet the following criteria, the following requirements apply to radiographic exposure devices and associated equipment that allow the source to be moved out of the device for routine operation:

(a) The coupling between the source assembly and the control cable must be designed in such a manner that the source assembly will not become disconnected if cranked outside the guide tube. The coupling must be such that it can not be unintentionally disconnected under normal and reasonably foreseeable abnormal conditions.

(b) The device must automatically secure the source assembly when it is cranked back into the fully shielded position within the device. The securing system may only be released by means of a deliberate operation on the exposure device.

(c) The outlet fittings, lock box, and drive cable fitting on each radiographic exposure device must be equipped with

safety plugs or covers which must be installed during storage and transportation to protect the source assembly from water, mud, sand, or other foreign matter.

(d) The guide tube must have passed the crushing tests for the control tube as specified in ANSI N432 and a kinking resistance test that closely approximates the kinking forces likely to be encountered during use.

(e) Guide tubes or exposure heads connected directly to the device must be used when moving the source out of the device.

(f) An exposure head or similar device designed to protect the source assembly from passing out of the end of the guide tube must be attached to the outermost end of the guide tube during radiographic operations. The guide tube exposure head connection must be able to withstand the tensile test for control units specified in ANSI N432.

(g) Source changers must provide a system for assuring that the source will not be accidentally withdrawn from the changer when connecting or disconnecting the drive cable to or from a source assembly.

(h) All newly manufactured radiographic exposure devices and associated equipment acquired by licenses after January 1, 1995, must comply with the requirements of this section.

(i) All radiographic exposure devices and associated equipment in use after January 1, 1998, must comply with the requirements of this section.

(2) Limits on levels of radiation for radiographic exposure devices and storage containers:

~~((1))~~ (a) Radiographic exposure devices measuring less than four inches from the sealed source storage position to any exterior surface of the device shall have no radiation level in excess of fifty milliroentgens per hour (50mR/hr) at six inches from any exterior surface of the device.

~~((2))~~ (b) Radiographic exposure devices measuring a minimum of four inches from the sealed source storage position to any exterior surface of the device, and all storage containers for sealed sources or outer containers for radiographic exposure devices, shall have no radiation level in excess of two hundred milliroentgens per hour (200mR/hr) at any exterior surface, and ten milliroentgens per hour (10mR/hr) at one meter from any exterior surface.

~~((3))~~ (c) The radiation levels specified are with the sealed source in the shielded (i.e., "off") position.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-243-070 Storage precautions. (1) Locked radiographic exposure devices and storage containers shall be physically secured to prevent tampering or removal by unauthorized personnel.

(2) At least one calibrated and operable radiation survey instrument shall be available at the storage area whenever a radiographic exposure device, a storage container, or source is being placed in storage.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-080 Radiation survey instruments. (1) The licensee ~~((or registrant))~~ shall maintain sufficient calibrated and operable radiation survey instruments to make

physical radiation surveys as required by this part and chapter 246-221 WAC. Instrumentation required by this section shall have a range such that two milliroentgens per hour through one roentgen per hour can be measured.

(2) Each radiation survey instrument shall be calibrated:

(a) At energies appropriate for use and at intervals not to exceed three months and after each instrument servicing;

(b) Such that accuracy within ± 20 percent traceable to a national standard can be demonstrated; and

(c) At two or more widely separated points, other than zero, on each scale.

(3) Records shall be maintained of these calibrations for ~~((two))~~ three years after the calibration date for inspection by the department.

~~((4) The requirements of this section do not apply to registrants using only radiation machines in enclosed radiographic systems.)~~

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-090 Leak testing, repair, tagging, opening, modification, and replacement of sealed sources.

(1) The replacement of any sealed source fastened to or contained in a radiographic exposure device and leak testing, repair, tagging, opening, or any other modification of any sealed source shall be performed only by persons specifically authorized to do so by the department, the United States Nuclear Regulatory Commission, or any agreement state.

(2) Each sealed source shall be tested for leakage at intervals not to exceed six months. In the absence of a certificate from a transferor that a test has been made within the six-month period prior to the transfer, the sealed source shall not be put into use until tested and results obtained.

(3) The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcurie) of removable contamination on the sealed source. An acceptable leak test for sealed sources in the possession of a radiography licensee would be to test at the nearest accessible point to the sealed source storage position, or other appropriate measuring point, by a procedure ~~((to be approved pursuant to WAC 246-235-080 (5)(e)))~~ specifically approved in a license condition. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the department for ~~((two))~~ three years after the leak test is performed.

(4) Any test conducted pursuant to subsections (2) and (3) of this section which reveals the presence of 185 becquerels (0.005 microcurie) or more of removable radioactive material shall be considered evidence that the sealed source is leaking. The licensee shall immediately withdraw the equipment involved from use and shall cause it to be decontaminated and repaired or to be disposed in accordance with regulations of the department. Within five days after obtaining results of the test, the licensee shall file a report with the department describing the involved equipment, the test results, and the corrective action taken.

(5) A sealed source which is not fastened to or contained in a radiographic exposure device shall have permanently attached to it a durable tag at least one inch square bearing the prescribed radiation caution symbol in conventional colors magenta or purple on a yellow background, and

at least the instructions: "Danger - Radioactive Material - Do not handle - Notify civil authorities if found."

(6) Each radiographic exposure device shall have permanently and conspicuously attached to it a durable label at least two inches square bearing the prescribed radiation caution symbol in conventional colors (magenta or purple on a yellow background), and at a minimum the instructions, "Danger - Radioactive Material - Do not handle - Notify civil authorities if found."

(7) Each radiographic exposure device must have attached to it by the user, a durable, legible, clearly visible label bearing the following:

(a) Chemical symbol and mass number of the radionuclide in the device;

(b) Activity and the date on which this activity was last measured;

(c) Model number and serial number of the sealed source;

(d) Manufacturer of the sealed source; and

(e) Licensee's name, address, and telephone number.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-243-100 Quarterly inventory. Each licensee shall conduct a quarterly physical inventory to account for all sealed sources received or possessed. The records of the inventories shall be maintained for ~~((two))~~ three years from the date of inventory for inspection by the department and shall include:

(1) Exposure device or source changer make, model, and serial number;

(2) Sealed source serial number and manufacturer;

(3) ~~((Isotope))~~ Radionuclide and current activity;

(4) Location of device/changer;

(5) Date of inventory;

(6) Name of person who performed inventory.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-110 Utilization logs. (1) Each licensee ~~((and/or registrant))~~ shall maintain current logs, which shall be kept available for inspection by the department for ~~((two))~~ three years from the date of the recorded event, at the address specified in the license showing for each radiation exposure device the following information:

(a) A description (or make and model number) of each radiation exposure device or storage container in which the sealed source is located;

(b) The identity of the radiographer to whom assigned; and

(c) Locations where used and dates of use.

~~(2) ((The requirements of subsection (1) of this section shall not apply in industrial radiography utilizing radiation machines in enclosed interlocked cabinets or rooms which are not occupied during radiographic operations, which are equipped with interlocks such that the radiation machine will not operate unless all openings are securely closed and which is so shielded that every location on the exterior meets conditions for an unrestricted area, as specified in WAC 246-221-060.~~

~~(3))~~ A separately identified utilization log is not required if the equivalent information is available in records of the licensee ~~((or registrant))~~ and available at the address specified in the license.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-120 Inspection and maintenance of radiographic exposure devices, control cables, storage containers and source changers. (1) The licensee shall conduct a program for inspection and maintenance of radiographic exposure devices, storage containers, control units (to include cables), and source changers at intervals, not to exceed three months or prior to first use thereafter to assure proper functioning of components important to safety. Records of these inspections and maintenance shall be kept for ~~((two))~~ three years.

(2) The licensee shall check for obvious defects in radiographic exposure devices, storage containers, control assemblies, and source changers prior to use each day the equipment is used.

(3) The licensee's program shall include a thorough visual inspection for corrosion, and specific maintenance procedures that address corrosion removal and prevention.

(4) If any inspection conducted pursuant to subsections (1) or (2) of this section reveals damage to components critical to radiation safety, the device shall be removed from service until proper repairs have been made.

(5) Any maintenance performed on radiographic exposure devices and accessories shall be in accordance with the manufacturer's specifications.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-130 Limitations—Personal radiation safety requirements for radiographers and radiographers' assistants. (1) No licensee ~~((or registrant))~~ shall permit any individual to act as a radiographer as defined in this chapter until such individual:

(a) Has been instructed in the subjects outlined in WAC 246-243-230;

(b) Has received copies of and instruction in the regulations contained in chapters 246-220, 246-222, 246-221, and 246-243 WAC and the applicable sections of appropriate license(s), and the licensee's ~~((or registrant's))~~ operating and emergency procedures, and shall have demonstrated understanding thereof;

(c) Has demonstrated competence to use the source of radiation, related handling tools, and radiation survey instruments which will be employed in the individual's assignment; and

(d) Has demonstrated understanding of the instructions in this paragraph by successful completion of written test and a field examination on the subjects covered.

(2) No licensee ~~((or registrant))~~ shall permit any individual to act as a radiographer's assistant as defined in this part until such individual:

(a) Has received copies of and instruction in the licensee's ~~((or registrant's))~~ operating and emergency procedures;

(b) Has demonstrated competence to use under the personal supervision of the radiographer the sources of radiation, related handling tools, and radiation survey instruments which will be employed in the individual's assignment;

(c) Has demonstrated understanding of the instructions in this paragraph by successfully completing a written or oral test and a field examination on the subjects covered; and

(d) Records of the above training including copies of written tests and dates of oral tests and field examinations shall be maintained ~~((for three years))~~ for at least one year following termination of employment.

(3) Each licensee ~~((or registrant))~~ shall maintain, for inspection by the department, records of training and testing which demonstrate that the requirements of subsections (1) and (2) of this section and WAC 246-235-080 (5)(a) are met.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-140 Operating and emergency procedures. The licensee's ~~((or registrant's))~~ operating and emergency procedures shall include instructions in at least the following:

(1) The handling and use of sources of radiation to be employed such that no individual is likely to be exposed to radiation doses in excess of the limits established in chapter 246-221 WAC Standards for protection against radiation;

(2) Methods and occasions for conducting radiation surveys;

(3) Methods for controlling access to radiographic areas;

(4) Methods and occasions for locking and securing sources of radiation;

(5) Personnel monitoring and the use of personnel monitoring equipment including steps that must be taken immediately by radiography personnel in the event a pocket dosimeter is found to be off-scale;

(6) Transportation to field locations, including packing of sources of radiation in the vehicles, posting of vehicles, and control of sources of radiation during transportation;

(7) Minimizing exposure of individuals in the event of an accident;

(8) ~~((The procedure for))~~ Notifying proper personnel in the event of a theft, loss, overexposure or accident involving sources of radiation;

(9) Maintenance of records; ~~((and))~~

(10) The inspection and maintenance of radiographic exposure devices and storage containers; and

(11) Identifying and reporting defects and noncompliance as required by these regulations.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-150 Personnel monitoring control.

(1) No licensee ~~((or registrant))~~ shall permit any individual to act as a radiographer or as a radiographer's assistant unless, at all times during radiographic operations, each such individual shall wear a film or TLD badge ~~((and))~~, a direct reading pocket dosimeter, and an alarming rate meter. In permanent facilities where other appropriate alarming or warning devices are in routine use, the wearing of an alarming rate meter is not required. Pocket dosimeters shall

be capable of measuring ~~((doses))~~ exposures from zero to at least 200 milliroentgens. A film or TLD badge shall be assigned to and worn by only one individual.

(2)(a) Pocket dosimeters shall be read and ~~((doses))~~ exposures recorded daily. Pocket dosimeters shall be charged at the beginning of each working day. Pocket dosimeters shall be checked annually at periods not to exceed ~~((one year))~~ thirteen months for correct response to radiation. Acceptable dosimeters shall read within plus or minus ~~((30))~~ twenty percent of the true radiation exposure.

(b) Each alarming rate meter must:

(i) Be checked to ensure that the alarm functions properly (sounds) prior to use at the start of each shift;

(ii) Be set to give an alarm signal at a maximum preset rate of 500 mR/hr.;

(iii) Require special means to change the preset alarm functions; and

(iv) Be calibrated annually at periods not to exceed thirteen months for correct response to radiation: Acceptable rate meters must alarm within plus or minus twenty percent of the true radiation exposure rate.

(c) A film or TLD badge shall be immediately processed if a pocket dosimeter is discharged beyond its range during normal use. The film or TLD badge reports received from the film or TLD badge processor and records of pocket dosimeter readings shall be maintained for inspection by the department until it authorizes their disposal.

~~((3)) The requirements for use of pocket dosimeter or pocket chamber shall not apply in industrial radiography utilizing radiation machines in enclosed interlocked cabinets or rooms which are not occupied during radiographic operations, which are equipped with interlocks such that the radiation machine will not operate unless all openings are securely closed and which are so shielded that every location on the exterior meets conditions for an unrestricted area, as specified in WAC 246-221-060.)~~

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-160 Supervision of radiographers' assistants. Whenever a radiographer's assistant uses radiographic exposure devices, uses sealed sources or related source handling tools, or conducts radiation surveys required by WAC 246-243-190 (2), (3), ~~((or))~~ (4), or (5) to determine that the sealed source has returned to the shielded position after an exposure, he or she shall be under the personal supervision of a radiographer, as defined in WAC 246-243-020. Personal supervision shall include (1) the radiographer's personal presence at the site where the sealed sources are being used, (2) the ability of the radiographer to communicate and give immediate assistance if required, and (3) the radiographer's ability to observe the performance of his/her assistant during the operations referred to in this section.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-170 Security—Precautionary procedures in radiographic operations. (1) During each radiographic operation, the radiographer or radiographer's assistant shall maintain a direct surveillance of the operation

to protect against unauthorized entry into a high radiation area, as defined in chapter 246-220 WAC except:

(a) Where the high radiation area is equipped with a control device or alarm system as described in WAC ((246-221-120 (1)(e)(ii))) 246-221-102(1); or

(b) Where the high radiation area is locked to protect against unauthorized or accidental entry.

(2) When not in operation or when not under direct surveillance, portable radiation exposure devices (~~and mobile or portable radiation machines~~) shall be physically secured to prevent removal by unauthorized personnel.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-180 Posting. Notwithstanding any provisions in paragraph WAC 246-221-130 areas in which radiography is being performed or in which a radiographic exposure device is being stored shall be conspicuously posted and access to the area shall be controlled as required by WAC 246-221-120 and 246-221-102(1).

(1) All potential radiation areas where industrial radiographic operations are to be performed shall be posted based on calculated or estimated exposure rates before industrial radiography operations begin.

(2) Each time the exposure device is relocated and/or the exposed position of the sealed source is changed, the requirements of subsection (1) of this section shall be met.

AMENDATORY SECTION (Amending Order 245, filed 2/21/92, effective 3/23/92)

WAC 246-243-190 Radiation surveys and survey records. (1) No radiographic operation shall be conducted unless calibrated and operable radiation survey instrumentation as described in WAC 246-243-080 is available and used at each site where radiographic (~~exposures are made~~) operations are being performed and at the storage area whenever a radiographic exposure device, a storage container, or source is being placed in storage.

(2) A physical radiation survey shall be made after each radiographic exposure utilizing radiographic exposure devices or sealed sources of radioactive material to determine that the sealed source has been returned to its shielded position. The (~~entire~~) horizontal circumference of the radiographic exposure device shall be surveyed. If the radiographic exposure device has a source guide tube, the survey shall include the guide tube.

(3) A physical radiation survey shall be made to determine that each sealed source is in its shielded condition prior to securing the radiographic exposure device or storage container as specified in WAC 246-243-060. The (~~entire~~) horizontal circumference of the radiographic exposure device shall be surveyed. If the radiographic exposure device has a source guide tube, the survey shall include the guide tube.

(4) A physical radiation survey shall be made of the boundary of the restricted area during radiographic operations not employing shielded room radiography. The maximum survey reading at the boundary shall be recorded. The records shall indicate approximate distance from source to boundaries, whether or not the exposed source is collimated and any occupied areas with exposure levels greater than 2 mR in any hour during radiographic operations.

(5) A survey with a calibrated and operable survey instrument shall be made any time a radiographic exposure device is placed into the storage area to ensure that the sealed source is in its shielded position. The horizontal circumference of the radiographic exposure device with emphasis on the source exit port must be surveyed.

(6) Records required by subsections (3) (~~and~~), (4), and (5) of this section shall include the model and serial number of the survey meter used and shall be maintained for inspection by the department for three years after completion of the survey. If the survey was used to determine an individual's exposure, however, the records of the survey shall be maintained until the department authorizes their disposition.

NEW SECTION

WAC 246-243-195 Reporting. (1) In addition to the reporting requirements specified in other sections of the regulations, each licensee shall provide a written report to the department within thirty days of the occurrence of any of the following incidents involving radiographic equipment:

(a) Unintentional disconnection of the source assembly from the control cable.

(b) Inability to retract the source assembly to its fully shielded position and secure it in this position.

(c) Failure of any component (critical to safe operation of the device) to properly perform its intended function.

(2) The licensee shall include the following information in each report submitted under subsection (1) of the section.

(a) A description of the equipment problem;

(b) Cause of each incident, if known;

(c) Manufacturer and model number of equipment involved in the incident;

(d) Place, time, and date of incident;

(e) Actions taken to reestablish normal operations;

(f) Corrective actions taken or planned to prevent recurrence;

(g) Qualifications of personnel involved in the incident.

(3) Reports of overexposure submitted under WAC 246-221-260 which involve failure of safety components of radiographic equipment must also include the information specified in subsection (2) of this section.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-200 Records required at temporary job sites. Each licensee (~~or registrant~~) conducting (~~industrial radiography~~) radiographic operations at a temporary site shall have the following records available at that site for inspection by the department:

(1) Appropriate license;

(2) Operating and emergency procedures;

(3) Applicable regulations;

(4) Survey records required pursuant to WAC 246-243-190 for the period of operation at the site;

(5) Daily pocket dosimeter records for the period of operation at the site;

(6) The latest instrument calibration and leak test record for specific devices in use at the site.

NEW SECTION**WAC 246-243-205 Temporary job site notification.**

(1) Each licensee shall provide notification to the department as required by the department, preferably twenty-four hours but no later than two hours, prior to beginning radiographic operations at a temporary job site. The notification will be given by using the prescribed 1-800 telephone notification system. The notification shall include:

- (a) Name and office telephone number of the licensee;
- (b) Radioactive materials license number;
- (c) Address or directions to the temporary job site;
- (d) Specific date(s), time(s), and duration of expected radiographic operations;
- (e) Names of radiographers and, if applicable, radiographer assistants taking part in the radiographic operations; and
- (f) Name and telephone number of a contact person at the temporary job site.

(2) In the event that operations at a temporary job site continue for longer than thirty days, the licensee will renotify the department, as required by subsection (1) of this section, each succeeding month.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-210 Special requirements for enclosed radiography. (1) ~~((Systems for enclosed radiography designed to allow admittance of individuals during x-radiation generation shall:~~

~~(a) Comply with all applicable requirements of chapter 246-243 WAC and WAC 246-221-060 of these regulations.~~

~~(b) Be evaluated at intervals not to exceed one year to assure compliance with the applicable requirements as specified in (a) of this subsection. Records of these evaluations shall be maintained for inspection by the department for a period of two years after the evaluation.~~

~~(c) Interlocks are required on all enclosed radiographic systems, such that the exposure will terminate if a door or port accessible to individuals is opened during the exposure, except for those systems employing conveyor belts or sample ports.~~

~~(2) Cabinet x-ray)) Radiographic exposure device systems designed to exclude individuals during ((x-radiation)) radiography are exempt from the requirements of chapter 246-243 WAC except that:~~

~~(a) Operating personnel must be provided with either a film badge or a thermoluminescent dosimeter and reports of the results must be maintained for inspection by the department.~~

~~(b) No ((registrant)) licensee shall permit any individual to operate ((a cabinet x-ray)) radiographic exposure device systems until such individual has received a copy of and instruction in the operating procedures for the unit and has demonstrated competence in its use. Records which demonstrate compliance with this subparagraph shall be maintained for inspection by the department until disposition is authorized by the department.~~

~~(c) Tests for proper operation of high radiation area control devices or alarm systems, where applicable, must be conducted at the beginning of each day of use and recorded.~~

(d) The ((registrant)) licensee shall perform an evaluation, at intervals not to exceed one year, to determine conformance with WAC 246-221-060 of these regulations.

Records of these evaluations shall be maintained for inspection by the department for a period of ((two)) three years after the evaluation.

AMENDATORY SECTION (Amending Order 184, filed 7/24/91, effective 8/24/91)

WAC 246-243-220 Special requirements for permanent radiographic installation. Permanent radiographic installations having high radiation area entrance controls of the types described in WAC ((246-221-120-1)(e)(ii)) 246-221-102(1) or where the high radiation area is locked to protect against unauthorized or accidental entry, shall also meet the following special requirements.

(1) Each entrance that is used for personnel access to the high radiation area in a permanent radiographic installation to which this section applies shall have both visible and audible warning signals to warn of the presence of radiation. The visible signal shall be actuated by radiation whenever the source is exposed. The audible signal shall be actuated when an attempt is made to enter the installation while the source is exposed.

(2) Both visible and audible alarm systems are required and shall be tested prior to the first use of a source in the installation and thereafter at intervals not to exceed three months. Records of the tests shall be kept for ((two)) three years.

(3) The department shall review and approve, in advance of construction, plans for permanent radiographic installations whose construction had not commenced by the effective date of these regulations. Construction of the permanent facility shall be in accordance with the plans approved by the department.

(4) A physical radiation survey shall be conducted and results recorded following construction or major modification of the facility to be used in the installation. Radiography shall not be conducted if exposure levels in unrestricted areas are greater than 2 mR in any hour. Any increase in source strength will require resurvey of the installation prior to the conduct of industrial radiography.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-243-230 Appendix A—Minimum subjects to be covered in training radiographers. (1) *Fundamentals of radiation safety*

- (a) Characteristics of ionizing radiation
- (b) Units of radiation dose (mrem) and quantity of radioactivity (curie)
- (c) Hazards of exposure to radiation
 - (i) Radiation protection standards
 - (ii) Biological effects of radiation dose
 - (d) Levels of radiation from sources of radiation
 - (e) Methods of controlling radiation dose
 - (i) Working time
 - (ii) Working distances
 - (iii) Shielding
- (2) *Radiation detection instrumentation to be used*
 - (a) Use of radiation survey instruments

- (i) Operation
- (ii) Calibration
- (iii) Limitations
- (b) Survey techniques
- (c) Use of personnel monitoring equipment
- (i) Film badges
- (ii) Pocket dosimeters
- (iii) Thermoluminescent dosimeters
- (iv) Alarming rate meters

(3) Radiographic equipment to be used

- (a) Remote handling equipment
- (b) Radiographic exposure devices and sealed sources
- (c) Storage containers
- ~~((d) Operation and control of x-ray equipment))~~

(4) The requirements of pertinent federal and state regulations

(5) The licensee's ~~((or registrant's))~~ written operating and emergency procedures

- (6) Case histories of radiography accidents.

AMENDATORY SECTION (Amending Order 121, filed 12/27/90, effective 1/31/91)

WAC 246-243-240 Appendix B—General guidelines for inspection of radiography equipment. (1) Panoramic devices (devices in which the source is physically removed from shielded container during exposure) should be inspected for:

- (a) Radiographic exposure unit;
 - (i) Abnormal surface radiation levels anywhere on camera;
 - (ii) Condition of safety plugs;
 - (iii) Proper operation of locking mechanism;
 - (iv) Condition of pigtail connector;
 - (v) Alignment of "S" tube with exit port;
 - (vi) Condition of carrying device (straps, handle, etc.);
 - (vii) Proper labeling;
- (b) Source tube;
 - (i) Rust, corrosion, dirt, or sludge buildup inside the source tube;
 - (ii) Condition of source tube connector;
 - (iii) Condition of source stop;
 - (iv) Kinks or damage that could prevent proper operation;
- (c) Control cables and drive mechanism;
 - (i) Proper drive mechanism for this camera, if appropriate;
 - (ii) Changes in general operating characteristics;
 - (iii) Condition of connector on drive cable;
 - (iv) Drive cable flexibility, wear, and rust;
 - (v) Excessive wear or damage to crank assembly parts;
 - (vi) Damage to drive cable conduit that could prevent the cable from moving freely;
 - (vii) Connection of the control cable connector with the pigtail connector for proper mating;
 - (viii) Proper operation of source position indicator, if applicable.
- (2) Directional beam devices should be inspected for:
 - (a) Abnormal surface radiation;
 - (b) Changes in the general operating characteristics of the unit;
 - (c) Proper operation of shutter mechanism;

- (d) Chafing or binding of shutter mechanism;
- (e) Damage to the device which might impair its operation;
- (f) Proper operation of locking mechanism;
- (g) Proper drive mechanism with this camera, if appropriate;
- (h) Condition of carrying device (strap, handle, etc.);
- (i) Proper labeling.

AMENDATORY SECTION (Amending Order 187, filed 8/7/91, effective 9/7/91)

WAC 246-250-001 Purpose and scope. (1) The regulations in this chapter establish procedures, criteria, and terms and conditions upon which the department issues licenses for land disposal of low-level radioactive wastes received from other persons. (Applicability of the requirements in this chapter to department licenses for waste disposal facilities in effect on the effective date of this regulation will be determined on a case-by-case basis and implemented through terms and conditions of the license or by orders issued by the department.) The requirements of this chapter are in addition to, and not in substitution for, other applicable requirements of these regulations or other state regulations.

(2) The regulations in this chapter do not apply to disposal of ~~((by product material as defined in WAC 246-220-010 (7)(b)))~~ tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore where the tailings or wastes result in quantities greater than 10,000 kilograms and containing more than 185 mega becquerels (five millicuries) of radium 226, or disposal of waste provided in WAC 246-221-070, 246-221-190, or 246-221-200.

(3) This chapter establishes procedural requirements and performance objectives applicable to any method of land disposal. It establishes specific technical requirements for near-surface disposal of radioactive waste which involves disposal in the uppermost portion of the earth.

AMENDATORY SECTION (Amending Order 187, filed 8/7/91, effective 9/7/91)

WAC 246-252-030 Criteria related to disposition of uranium mill tailings or wastes. As used in this section, the term "as low as reasonably achievable" has the same meaning as in WAC 246-220-007. The term by-product material ~~((has the same meaning as WAC 246-220-010 (6)(b)))~~ means the tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore processed primarily for its source material content.

As required by WAC 246-235-110(6), each applicant for a license to possess and use source material in conjunction with uranium or thorium milling, or by-product material at sites formerly associated with such milling, is required to include in a license application proposed specifications relating to the milling operation and the disposition of tailings or waste resulting from such milling activities. This section establishes criteria relating to the siting, operation, decontamination, decommissioning, and reclamation of mills and tailings or waste systems and sites at which such mills and systems are located and site and by-product material ownership. Applications must clearly demonstrate how these

criteria have been addressed. The specifications shall be developed considering the expected full capacity of tailings or waste systems and the lifetime of mill operations. Where later expansions of systems or operations may be likely, the amenability of the disposal system to accommodate increased capacities without degradation in long-term stability and other performance factors shall be evaluated.

Licensees or applicants may propose alternatives to the specific requirements in these criteria. The alternative proposals may take into account local or regional conditions, including geology, topography, hydrology, and meteorology. The department may find that the proposed alternatives meet the department's requirements if the alternatives will achieve a level of stabilization and containment of the sites concerned, and a level of protection for public health, safety, and the environment from radiological and nonradiological hazards associated with the sites, which is equivalent to, to the extent practicable, or more stringent than the level which would be achieved by the requirements of the standards promulgated by the United States Environmental Protection Agency in 40 CFR 192, Subparts D and E.

(1) Criterion 1 - In selecting among alternative tailings disposal sites or judging the adequacy of existing tailings sites, the following site features which would contribute to meeting the broad objective of permanent isolation of the tailings and associated contaminants from man and the environment for one thousand years to the extent reasonably achievable, and in any case, for at least two hundred years without ongoing active maintenance shall be considered:

- (a) Remoteness from populated areas;
- (b) Hydrogeologic and other environmental conditions conducive to continued immobilization and isolation of contaminants from groundwater sources; and
- (c) Potential for minimizing erosion, disturbance, and dispersion by natural forces over the long term.

The site selection process must be an optimization to the maximum extent reasonably achievable in terms of these features.

In the selection of disposal sites, primary emphasis shall be given to isolation of tailings or wastes, a matter having long-term impacts, as opposed to consideration only of short-term convenience or benefits, such as minimization of transportation or land acquisition costs. While isolation of tailings will be a function of both site characteristics and engineering design, overriding consideration shall be given to siting features given the long-term nature of the tailings hazards.

Tailings shall be disposed in a manner such that no active maintenance is required to preserve the condition of the site.

(2) Criterion 2 - To avoid proliferation of small waste disposal sites, by-product material from in-situ extraction operations, such as residues from solution evaporation or contaminated control processes, and wastes from small remote above ground extraction operations shall be disposed at existing large mill tailings disposal sites; unless, considering the nature of the wastes, such as their volume and specific activity and the costs and environmental impacts of transporting the wastes to a large disposal site, such offsite disposal is demonstrated to be impracticable or the advantage of onsite burial clearly outweighs the benefits of reducing the perpetual surveillance obligations.

(3) Criterion 3 - The "prime option" for disposal of tailings is placement below grade, either in mines or specially excavated pits (that is, where the need for any specially constructed retention structure is eliminated).

The evaluation of alternative sites and disposal methods performed by mill operators in support of their proposed tailings disposal program (provided in applicants' environmental reports) shall reflect serious consideration of this disposal mode. In some instances, below grade disposal may not be the most environmentally sound approach, such as might be the case if a groundwater formation is relatively close to the surface or not very well isolated by overlying soils and rock. Also, geologic and topographic conditions might make full, below grade burial impracticable; for example, near-surface bedrock could create prominent excavation costs while more suitable alternate sites may be available. Where full below grade burial is not practicable, the size of the retention structures, and the size and steepness of slopes of associated exposed embankments, shall be minimized by excavation to the maximum extent reasonably achievable or appropriate, given the geologic and hydrogeologic conditions at a site. In these cases, it must be demonstrated that an above-grade disposal program will provide reasonably equivalent isolation of the tailings from natural erosional forces.

(4) Criterion 4 - The following site and design criteria shall be adhered to whether tailings or wastes are disposed of above or below grade:

(a) Upstream rainfall catchment areas must be minimized to decrease erosion potential and the size of the probable maximum flood which could erode or wash out sections of the tailings disposal area.

(b) Topographic features shall provide good wind protection.

(c) Embankment and cover slopes shall be relatively flat after final stabilization to minimize erosion potential and to provide conservative factors of safety assuring long-term stability. The broad objective should be to contour final slopes to grades which are as close as possible to those which would be provided if tailings were disposed of below grade; this could, for example, lead to slopes of about ten horizontal to one vertical (10h:1v) or less steep. In general, slopes should not be steeper than about 5h:1v. Where steeper slopes are proposed, reasons why a slope less steep than 5h:1v would be impracticable should be provided, and compensating factors and conditions which make such slopes acceptable should be identified.

(d) A fully self-sustaining vegetative cover shall be established or rock cover employed to reduce wind and water erosion to negligible levels.

Where a full vegetative cover is not likely to be self-sustaining due to climatic conditions, such as in semi-arid and arid regions, rock cover shall be employed on slopes of the impoundment system. The NRC will consider relaxing this requirement for extremely gentle slopes such as those which may exist on the top of the pile.

The following factors shall be considered in establishing the final rock cover design to avoid displacement of rock particles by human and animal traffic or by natural processes, and to preclude undercutting and piping:

(i) Shape, size, composition, gradation of rock particles (excepting bedding material, average particle size shall be at least cobble size or greater);

(ii) Rock cover thickness and zoning of particles by size; and

(iii) Steepness of underlying slopes.

(e) Individual rock fragments shall be dense, sound, and resistant to abrasion, and free from defects that would tend to unduly increase their destruction by water and frost actions. Weak, friable, or laminated aggregate shall not be used. Shale, rock laminated with shale, and cherts shall not be used.

Rock covering of slopes may not be required where top covers are on the order of ten meters or greater; impoundment slopes are on the order of 10h:1v or less; bulk cover materials have inherently favorable erosion resistance characteristics; and there is negligible drainage catchment area upstream of the pile, and there is good wind protection as described in (a) and (b) of this subsection.

(f) Impoundment surfaces shall be contoured to avoid areas of concentrated surface runoff or abrupt or sharp changes in slope gradient. In addition to rock cover on slopes, areas toward which surface runoff might be directed shall be well protected with substantial rock cover (riprap). In addition to providing for stability of the impoundment systems itself, the overall stability, erosion potential, and geomorphology of surrounding terrain shall be evaluated to assure that there are no processes, such as gully erosion, which would lead to impoundment instability.

(g) The impoundment shall not be located near a capable fault that could cause a maximum credible earthquake larger than that which the impoundment could reasonably be expected to withstand. As used in this criterion, the term "capable fault" has the same meaning as defined in Section III (g) of Appendix A of 10 CFR Part 100. The term "maximum credible earthquake" means that earthquake which would cause the maximum vibratory ground motion based upon an evaluation of earthquake potential considering the regional and local geology and seismology and specific characteristics of local subsurface material.

(h) The impoundment, where feasible, should be designed to incorporate features which will promote deposition of suspended particles. For example, design features which promote deposition of sediment suspended in any runoff which flows into the impoundment area might be utilized; the object of such a design feature would be to enhance the thickness of cover over time.

(5) Criterion 5 - Criteria 5(a) through 5(g) and new Criterion 13 incorporate the basic groundwater protection standards imposed by the United States Environmental Protection Agency in 40 CFR Part 192, Subparts D and E (48 FR 45926; October 7, 1983) which apply during operations and prior to the end of closure. Groundwater monitoring to comply with these standards is required by Criterion 7.

(a) The primary groundwater protection standard is a design standard for surface impoundments used to manage uranium and thorium by-product material. Surface impoundments (except for an existing portion) must have a liner that is designed, constructed, and installed to prevent any migration of wastes out of the impoundment to the adjacent

subsurface soil, groundwater, or surface water at any time during the active life (including the closure period) of the impoundment. The liner may be constructed of materials that may allow wastes to migrate into the liner (but not into the adjacent subsurface soil, groundwater, or surface water) during the active life of the facility, provided that impoundment closure includes removal or decontamination of all waste residues, contaminated containment system components (liners, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate. For impoundments that will be closed with the liner material left in place, the liner must be constructed of materials that can prevent wastes from migrating into the liner during the active life of the facility.

(b) The liner required by (a) of this subsection must be:

(i) Constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation;

(ii) Placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift; and

(iii) Installed to cover all surrounding earth likely to be in contact with the wastes or leachate.

(c) The applicant or licensee will be exempted from the requirements of (a) of this subsection if the department finds, based on a demonstration by the applicant or licensee, that alternate design and operating practices, including the closure plan, together with site characteristics will prevent the migration of any hazardous constituents into groundwater or surface water at any future time. In deciding whether to grant an exemption, the department will consider:

(i) The nature and quantity of the wastes;

(ii) The proposed alternate design and operation;

(iii) The hydrogeologic setting of the facility, including the attenuative capacity and thickness of the liners and soils present between the impoundment and groundwater or surface water; and

(iv) All other factors which would influence the quality and mobility of the leachate produced and the potential for it to migrate to groundwater or surface water.

(d) A surface impoundment must be designed, constructed, maintained, and operated to prevent overtopping resulting from normal or abnormal operations; overfilling; wind and wave actions; rainfall; run-on; from malfunctions of level controllers, alarms, and other equipment; and human error.

(e) When dikes are used to form the surface impoundment, the dikes must be designed, constructed, and maintained with sufficient structural integrity to prevent massive failure of the dikes. In ensuring structural integrity, it must not be presumed that the liner system will function without leakage during the active life of the impoundment.

(f) Uranium and thorium by-product materials must be managed to conform to the following secondary groundwater protection standard: Hazardous constituents entering the groundwater from a licensed site must not exceed the specified concentration limits in the uppermost aquifer beyond the point of compliance during the compliance

period. Hazardous constituents are those constituents identified by the department pursuant to (g) of this subsection. Specified concentration limits are those limits established by the department as indicated in (j) of this subsection. The department will also establish the point of compliance and compliance period on a site specific basis through license conditions and orders. The objective in selecting the point of compliance is to provide the earliest practicable warning that the impoundment is releasing hazardous constituents to the groundwater. The point of compliance must be selected to provide prompt indication of groundwater contamination on the hydraulically downgradient edge of the disposal area. The department must identify hazardous constituents, establish concentration limits, set the compliance period, and adjust the point of compliance, if needed, when the detection monitoring established under criterion 7 indicates leakage of hazardous constituents from the disposal area.

(g) A constituent becomes a hazardous constituent subject to (j) of this subsection when the constituent:

(i) Is reasonably expected to be in or derived from the by-product material in the disposal area;

(ii) Has been detected in the groundwater in the uppermost aquifer; and

(iii) Is listed in WAC 246-252-050 Appendix A.

(h) The department may exclude a detected constituent from the set of hazardous constituents on a site specific basis if it finds that the constituent is not capable of posing a substantial present or potential hazard to human health or the environment. In deciding whether to exclude constituents, the department will consider the following:

(i) Potential adverse effect on groundwater quality, considering —

(A) The physical and chemical characteristics of the waste in the licensed site, including its potential for migration;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity of groundwater and the direction of groundwater flow;

(D) The proximity and withdrawal rates of groundwater users;

(E) The current and future uses of groundwater in the area;

(F) The existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater quality;

(G) The potential for health risks caused by human exposure to waste constituents;

(H) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;

(I) The persistence and permanence of the potential adverse effects.

(ii) Potential adverse effects on hydraulically-connected surface water quality, considering —

(A) The volume and physical and chemical characteristics of the waste in the licensed site;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity and quality of groundwater, and the direction of groundwater flow;

(D) The patterns of rainfall in the region;

(E) The proximity of the licensed site to surface waters;

(F) The current and future uses of surface waters in the area and any water quality standards established for those surface waters;

(G) The existing quality of surface water, including other sources of contamination and the cumulative impact on surface water quality;

(H) The potential for health risks caused by human exposure to waste constituents;

(I) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and

(J) The persistence and permanence of the potential adverse effects.

(i) In making any determinations under (h) and (k) of this subsection about the use of groundwater in the area around the facility, the department will consider any identification of underground sources of drinking water and exempted aquifers made by the United States Environmental Protection Agency.

(j) At the point of compliance, the concentration of a hazardous constituent must not exceed —

(i) The department approved background concentration of that constituent in the groundwater;

(ii) The respective value given in the table in subsection (5)(l) of this section if the constituent is listed in the table and if the background level of the constituent is below the value listed; or

(iii) An alternate concentration limit established by the department.

(k) Conceptually, background concentrations pose no incremental hazards and the drinking water limits in (j)(i) of this subsection state acceptable hazards but these two options may not be practically achievable at a specific site. Alternate concentration limits that present no significant hazard may be proposed by licensees for department consideration. Licensees must provide the basis for any proposed limits including consideration of practicable corrective actions, that limits are as low as reasonably achievable, and information on the factors the department must consider.

The department will establish a site specific alternate concentration limit for a hazardous constituent as provided in (j) of this subsection if it finds that the constituent will not pose a substantial present or potential hazard to human health or the environment as long as the alternate concentration limit is not exceeded. In establishing alternate concentration limits, the department will apply its as low as reasonably achievable criterion in this chapter. The department will also consider the following factors:

(i) Potential adverse effects on groundwater quality, considering —

(A) The physical and chemical characteristics of the waste in the licensed site including its potential for migration;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity of groundwater and the direction of groundwater flow;

(D) The proximity and withdrawal rates of groundwater users;

(E) The current and future uses of groundwater in the area;

(F) The existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater quality;

(G) The potential for health risks caused by human exposure to waste constituents;

(H) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;

(I) The persistence and permanence of the potential adverse effects.

(ii) Potential adverse effects on hydraulically-connected surface water quality, considering —

(A) The volume and physical and chemical characteristics of the waste in the licensed site;

(B) The hydrogeological characteristics of the facility and surrounding land;

(C) The quantity and quality of groundwater, and the direction of groundwater flow;

(D) The patterns of rainfall in the region;

(E) The proximity of the licensed site to surface waters;

(F) The current and future uses of surface waters in the area and any water quality standards established for those surface waters;

(G) The existing quality of surface water including other sources of contamination and the cumulative impact on surface water quality;

(H) The potential for health risks caused by human exposure to waste constituents;

(I) The potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and

(J) The persistence and permanence of the potential adverse effects.

(I) MAXIMUM VALUES FOR GROUNDWATER PROTECTION:

| Constituent or Property | Maximum Concentration |
|--|-----------------------|
| | Milligrams per liter |
| Arsenic | 0.05 |
| Barium | 1.0 |
| Cadmium | 0.01 |
| Chromium | 0.05 |
| Lead | 0.05 |
| Mercury | 0.002 |
| Selenium | 0.01 |
| Silver | 0.05 |
| Endrin (1,2,3,4,10,10-hexachloro-1,7 -expoxy-1,4,4a,5,6,7,8,9a-octahydro-1, 4-endo, endo-5,8-dimethano naphthalene) | 0.0002 |
| Lindane (1,2,3,4,5,6-hexachlorocyclohexane, gamma isomer) | 0.004 |
| Methoxychlor (1,1,1-Trichloro-2,2-bis (p-methoxyphenylethane) | 0.1 |
| Toxaphene (C ₁₀ H ₁₀ Cl ₅ , Technical chlorinated camphene, 67-69 percent chlorine) | 0.005 |
| 2,4-D (2,4-Dichlorophenoxyacetic acid) | 0.1 |
| 2,4,5-TP Silvex (2,4,5-Trichlorophenoxypropionic acid) | 0.01 |

| | Picocuries per liter |
|--|----------------------|
| Combined radium - 226 and radium - 228 | 5 |
| Gross alpha - particle activity (excluding radon and uranium when producing uranium by-product material or thorium when producing thorium by-product material) | 15 |

(m) If the groundwater protection standards established under (f) of this subsection are exceeded at a licensed site, a corrective action program must be put into operation as soon as is practicable, and in no event later than eighteen months after the department finds that the standards have been exceeded. The licensee shall submit the proposed corrective action program and supporting rationale for department approval prior to putting the program into operation, unless otherwise directed by the department. The objective of the program is to return hazardous constituent concentration levels in groundwater to the concentration limits set as standards. The licensee's proposed program must address removing the hazardous constituents that have entered the groundwater at the point of compliance or treating them in place. The program must also address removing or treating in place any hazardous constituents that exceed concentration limits in groundwater between the point of compliance and the downgradient facility property boundary. The licensee shall continue corrective action measures to the extent necessary to achieve and maintain compliance with the groundwater protection standard. The department will determine when the licensee may terminate corrective action measures based on data from the groundwater monitoring program and other information that provide reasonable assurance that the groundwater protection standard will not be exceeded.

(n) In developing and conducting groundwater protection programs, applicants and licensees shall also consider the following:

(i) Installation of bottom liners (where synthetic liners are used, a leakage detection system must be installed immediately below the liner to ensure major failures are detected if they occur. This is in addition to the groundwater monitoring program conducted as provided in Criterion 7. Where clay liners are proposed or relatively thin, in-situ clay soils are to be relied upon for seepage control, tests must be conducted with representative tailings solutions and clay materials to confirm that no significant deterioration of permeability or stability properties will occur with continuous exposure of clay to tailings solutions. Tests must be run for a sufficient period of time to reveal any effects if they are going to occur (in some cases deterioration has been observed to occur rather rapidly after about nine months of exposure)).

(ii) Mill process designs which provide the maximum practicable recycle of solutions and conservation of water to reduce the net input of liquid to the tailings impoundment.

(iii) Dewatering of tailings by process devices and/or in-situ drainage systems (at new sites, tailings must be dewatered by a drainage system installed at the bottom of the impoundment to lower the phreatic surface and reduce the driving head of seepage, unless tests show tailings are not amenable to such a system. Where in-situ dewatering is to be conducted, the impoundment bottom must be graded to assure that the drains are at a low point. The drains must be protected by suitable filter materials to assure that drains

remain free running. The drainage system must also be adequately sized to assure good drainage).

(iv) Neutralization to promote immobilization of hazardous constituents.

(o) Where groundwater impacts are occurring at an existing site due to seepage, action must be taken to alleviate conditions that lead to excessive seepage impacts and restore groundwater quality. The specific seepage control and groundwater protection method, or combination of methods, to be used must be worked out on a site-specific basis. Technical specifications must be prepared to control installation of seepage control systems. A quality assurance, testing, and inspection program, which includes supervision by a qualified engineer or scientist, must be established to assure the specifications are met.

(p) In support of a tailings disposal system proposal, the applicant/operator shall supply information concerning the following:

(i) The chemical and radioactive characteristics of the waste solutions.

(ii) The characteristics of the underlying soil and geologic formations particularly as they will control transport of contaminants and solutions. This includes detailed information concerning extent, thickness, uniformity, shape, and orientation of underlying strata. Hydraulic gradients and conductivities of the various formations must be determined. This information must be gathered from borings and field survey methods taken within the proposed impoundment area and in surrounding areas where contaminants might migrate to groundwater. The information gathered on boreholes must include both geologic and geophysical logs in sufficient number and degree of sophistication to allow determining significant discontinuities, fractures, and channeled deposits of high hydraulic conductivity. If field survey methods are used, they should be in addition to and calibrated with borehole logging. Hydrologic parameters such as permeability may not be determined on the basis of laboratory analysis of samples alone; a sufficient amount of field testing (e.g., pump tests) must be conducted to assure actual field properties are adequately understood. Testing must be conducted to allow estimating chemi-sorption attenuation properties of underlying soil and rock.

(iii) Location, extent, quality, capacity and current uses of any groundwater at and near the site.

(q) Steps must be taken during stockpiling of ore to minimize penetration of radionuclides into underlying soils; suitable methods include lining and/or compaction of ore storage areas.

(6) Criterion 6 - (a) In cases where waste by-product material is to be permanently disposed, an earthen cover shall be placed over tailings or wastes at the end of the milling operations and the waste disposal area shall be closed in accordance with a design¹ which shall provide reasonable assurance of control of radiological hazard to:

(i) Be effective for one thousand years, to the extent reasonably achievable, and, in any case, for at least two hundred years; and

(ii) Limit releases of Radon-222 from uranium by-product materials, and Radon-220 from thorium by-product materials, to the atmosphere so as to not exceed an average² release rate of twenty picocuries per square meter per second ($\text{pCi}/\text{m}^2\text{s}$) to the extent practicable throughout the effective

design life determined pursuant to (a)(i) of this subsection. In computing required tailings cover thicknesses, moisture in soils in excess of amounts found normally in similar soils in similar circumstances shall not be considered. Direct gamma exposure from the tailings or wastes should be reduced to background levels. The effects of any thin synthetic layer shall not be taken into account in determining the calculated radon exhalation level. If nonsoil materials are proposed as cover materials, it must be demonstrated that such materials will not crack or degrade by differential settlement, weathering, or other mechanism over long term time intervals.

(b) Near surface materials (i.e., within the top three meters) shall not include mine waste or rock that contains elevated levels of radium; soils used for near surface cover must be essentially the same, as far as radioactivity is concerned, as that of surrounding soils. This is to insure that surface radon exhalation is not significantly above background because of the cover material itself.

(c) The design requirements in this criterion for longevity and control of radon releases shall apply to any portion of a licensed and/or disposal site unless such portion contains a concentration of radium in land, averaged over areas of one hundred square meters, which, as a result of by-product material does not exceed the background level by more than:

(i) Five picocuries per gram (pCi/g) of Radium-226, or, in the case of thorium by-product material, Radium-228, averaged over the first fifteen centimeters below the surface; and

(ii) Fifteen pCi/g of Radium-226, or, in the case of thorium by-product material, Radium-228, averaged over fifteen centimeters thick layers more than fifteen centimeters below the surface.

(d) The licensee must also address the nonradiological hazards associated with the wastes in planning and implementing closure. The licensee shall ensure that disposal areas are closed in a manner that minimizes the need for further maintenance. To the extent necessary to prevent threats to human health and the environment, the license shall control, minimize, or eliminate post-closure escape of nonradiological hazardous constituents, leachate, contaminated rainwater, or waste decomposition products to the ground or surface waters or to the atmosphere.

Footnotes:

¹ The standard applies to design. Monitoring for radon after installation of an appropriately designed cover is not required.

² This average shall apply to the entire surface of each disposal area over periods of at least one year, but short compared to one hundred years. Radon will come from both uranium by-product materials and from covering material. Radon emissions from covering materials should be estimated as part of developing a closure plan for each site. The standard, however, applies only to emissions from by-product materials to the atmosphere.

(7) Criterion 7 - At least one full year prior to any major site construction, a preoperational monitoring program must be conducted to provide complete baseline data on a milling site and its environs. Throughout the construction and operating phases of the mill, an operational monitoring program must be conducted to complete the following:

(a) To measure or evaluate compliance with applicable standards and regulations;

(b) To evaluate performance of control systems and procedures;

- (c) To evaluate environmental impacts of operation; and
 (d) To detect potential long-term effects.

The licensee shall establish a detection monitoring program needed for the department to set the site-specific groundwater protection standards in Criterion 5 of this section. For all monitoring under this paragraph, the licensee or applicant will propose for department approval as license conditions, which constituents are to be monitored on a site-specific basis. A detection monitoring program has two purposes. The initial purpose of the program is to detect leakage of hazardous (~~constituents~~) constituents from the disposal area so that the need to set groundwater protection standards is monitored. If leakage is detected, the second purpose of the program is to generate data and information needed for the department to establish the standards under Criterion 5. The data and information must provide a sufficient basis to identify those hazardous constituents which require concentration limit standards and to enable the department to set the limits for those constituents and the compliance period. They may also need to provide the basis for adjustments to the point of compliance. For licenses in effect September 30, 1983, the detection monitoring programs must have been in place by October 1, 1984. For licenses issued after September 30, 1983, the detection monitoring programs must be in place when specified by the department in orders or license conditions. Once groundwater protection standards have been established pursuant to Criterion 5, the licensee shall establish and implement a compliance monitoring program. The purpose of the compliance monitoring program is to determine that the hazardous constituent concentrations in ground water continue to comply with the standards set by the department. In conjunction with a corrective action program, the licensee shall establish and implement a corrective action monitoring program. The purpose of the corrective action monitoring program is to demonstrate the effectiveness of the corrective actions. Any monitoring program required by this paragraph may be based on existing monitoring programs to the extent the existing programs can meet the stated objective for the program.

(8) Criterion 8 - Milling operations shall be conducted so that all airborne effluent releases are reduced to as low as is reasonably achievable. The primary means of accomplishing this shall be by means of emission controls. Institutional controls, such as extending the site boundary and exclusion area, may be employed to ensure that offsite exposure limits are met, but only after all practicable measures have been taken to control emissions at the source. Notwithstanding the existence of individual dose standards, strict control of emissions is necessary to assure that population exposures are reduced to the maximum extent reasonably achievable and to avoid site contamination. The greatest potential sources of offsite radiation exposure (aside from radon exposure) are dusting from dry surfaces of the tailings disposal area not covered by tailings solution and emissions from yellowcake drying and packaging operations. During operations and prior to closure, radiation doses from radon emissions from surface impoundments shall be kept as low as is reasonably achievable. Checks shall be made and logged hourly of all parameters (e.g., differential pressure and scrubber water flow rate) which determine the efficiency of yellowcake stack emission control equipment operation.

It shall be determined whether or not conditions are within a range prescribed to ensure that the equipment is operating consistently near peak efficiency; corrective action shall be taken when performance is outside of prescribed ranges. Effluent control devices shall be operative at all times during drying and packaging operations and whenever air is exhausting from the yellowcake stack.

Drying and packaging operations shall terminate when controls are inoperative. When checks indicate the equipment is not operating within the range prescribed for peak efficiency, actions shall be taken to restore parameters to the prescribed range. When this cannot be done without shutdown and repairs, drying and packaging operations shall cease as soon as practicable.

Operations may not be restarted after cessation due to off-normal performance until needed corrective actions have been identified and implemented. All such cessations, corrective actions, and restarts shall be reported to the department in writing, within ten days of the subsequent restart.

To control dusting from tailings, that portion not covered by standing liquids shall be wetted or chemically stabilized to prevent or minimize blowing and dusting to the maximum extent reasonably achievable. This requirement may be relaxed if tailings are effectively sheltered from wind, such as may be the case where they are disposed of below grade and the tailings surface is not exposed to wind. Consideration shall be given in planning tailings disposal programs to methods which would allow phased covering and reclamation of tailings impoundments since this will help in controlling particulate and radon emissions during operation. To control dustings from diffuse sources, such as tailings and ore pads where automatic controls do not apply, operators shall develop written operating procedures specifying the methods of control which will be utilized.

Milling operations producing or involving thorium by-product material shall be conducted in such a manner as to provide reasonable assurance that the annual dose equivalent does not exceed twenty-five millirems to the whole body, seventy-five millirems to the thyroid, and twenty-five millirems to any other organ of any member of the public as a result of exposures to the planned discharge of radioactive materials, Radon-220 and its daughters excepted, to the general environment.

Uranium and thorium by-product materials shall be managed so as to conform to the applicable provisions of Title 40 of the Code of Federal Regulations, Part 440, Ore Mining and Dressing Point Source Category: Effluent Limitations Guidelines and New Source Performance Standards, Subpart C, Uranium, Radium, and Vanadium Ores Subcategory, as codified on January 1, 1983.

The licensee shall establish a detection monitoring program needed to establish the groundwater protection standards in subsection (5)(f) of this section. A detection monitoring program has two purposes. The initial purpose of the program is to detect leakage of hazardous constituents from the disposal area so that the need to set groundwater protection standards is monitored. If leakage is detected, the second purpose of the program is to generate data and information needed for the department to establish the standards under subsection (5)(f) of this section. The data and information must provide a sufficient basis to identify

those hazardous constituents which require concentration limit standards and to enable the department to set the limits for those constituents and the compliance period. They may also need to provide the basis for adjustments to the point of compliance. For licenses in effect September 30, 1983, the detection monitoring programs must have been in place by October 1, 1984. For licenses issued after September 30, 1983, the detection monitoring programs must be in place when specified by the department in orders or license conditions. Once groundwater protection standards have been established pursuant to subsection (5)(f) of this section, the licensee shall establish and implement a compliance monitoring program. The purpose of the compliance monitoring program is to determine that the hazardous constituent concentrations in groundwater continue to comply with the standards set by the department. In conjunction with a corrective action program, the licensee shall establish and implement a corrective action monitoring program. The purpose of the corrective action monitoring program is to demonstrate the effectiveness of the corrective actions. Any monitoring program required by this paragraph may be based on existing monitoring programs to the extent the existing programs can meet the stated objective for the program.

Daily inspections of tailings or waste retention systems must be conducted by a qualified engineer or scientist and documented. The department must be immediately notified of any failure in a tailings or waste retention system which results in a release of tailings or waste into unrestricted areas, and/or of any unusual conditions (conditions not contemplated in the design of the retention system) which if not corrected could indicate the potential or lead to failure of the system and result in a release of tailings or waste into unrestricted areas.

(9) Criterion 9 - (a) Pursuant to chapter 70.121 RCW, and except as otherwise provided, financial surety arrangements for site reclamation and long-term surveillance and control which may consist of surety bonds, cash deposits, certificates of deposit, deposits of government securities, irrevocable letters or lines of credit, or any combination of the above, or other arrangements approved by the department, milling operations shall be established for source material to ensure the protection of the public health and safety in the event of abandonment, default, or other inability of the licensee to meet the requirements of the act and these regulations.

(i) The amount of funds to be ensured by such surety arrangements shall be based on department-approved cost estimates.

(ii) Self-insurance, or any arrangement which essentially constitutes self-insurance (e.g., a contract with a state or federal agency), will not satisfy the surety requirement, since this provides no additional assurance other than that which already exists through license requirements.

(b) The arrangements required in (a) of this subsection shall be established prior to commencement of operations to assure that sufficient funds will be available to carry out decontamination and decommissioning of the facility.

(c) Amendments to licenses in effect on the effective date of this regulation may be issued, providing that the required surety arrangements are established within ninety days after the effective date of this subsection.

(d) For source material milling operations, the amount of funds to be ensured by such surety arrangements shall be based on department-approved cost estimates in an approved plan for (i) decontamination and decommissioning of mill buildings and the milling site to levels which would allow unrestricted use of these areas upon decommissioning, and (ii) the reclamation of tailings and/or waste disposal areas in accordance with the technical criteria delineated in this section. The licensee shall submit this plan in conjunction with an environmental report that addresses the expected environmental impacts of the milling operation, decommissioning and tailings reclamation, and evaluates alternatives for mitigating these impacts. In addition, the surety shall cover the payment of the charge for long-term surveillance and control required by the department. In establishing specific surety arrangements, the licensee's cost estimates shall take into account total costs that would be incurred if an independent contractor were hired to perform the decommissioning and reclamation work. In order to avoid unnecessary duplication and expense, the department may accept financial sureties that have been consolidated with financial or surety arrangements established to meet requirements of other federal or state agencies and/or local governing bodies for such decommissioning, decontamination, reclamation, and long-term site surveillance, provided such arrangements are considered adequate to satisfy these requirements and that portion of the surety which covers the decommissioning and reclamation of the mill, mill tailings site and associated areas, and the long-term funding charge is clearly identified and committed for use in accomplishing these activities. The licensee's surety mechanism will be reviewed annually by the department to assure that sufficient funds will be available for completion of the reclamation plan if the work had to be performed by an independent contractor. The amount of surety liability should be adjusted to recognize any increases or decreases resulting from inflation, changes in engineering plans, activities performed, and any other conditions affecting costs. Regardless of whether reclamation is phased through the life of the operation or takes place at the end of operations, an appropriate portion of surety liability shall be retained until final compliance with the reclamation plan is determined. This will yield a surety that is at least sufficient at all times to cover the costs of decommissioning and reclamation of the areas that are expected to be disturbed before the next license renewal. The term of the surety mechanism must be open ended, unless it can be demonstrated that another arrangement would provide an equivalent level of assurance. This assurance could be provided with a surety instrument which is written for a specific period of time (e.g., five years), yet which must be automatically renewed unless the surety notifies the beneficiary (the state regulatory agency) and the principal (the licensee) some reasonable time (e.g., ninety days) prior to the renewal date of their intention not to renew. In such a situation, the surety requirement still exists and the licensee would be required to submit an acceptable replacement surety within a brief period of time to allow at least sixty days for the department to collect.

Proof of forfeiture must not be necessary to collect the surety so that in the event that the licensee could not provide an acceptable replacement surety within the required time, the surety shall be automatically collected prior to its

expiration. The conditions described above would have to be clearly stated on any surety instrument which is not open-ended and must be agreed to by all parties.

Long-term care requirements. Pursuant to chapter 70.121 RCW, and as otherwise provided in WAC 246-235-080 (6)(d), a long-term care trust fund shall be established by source material milling licensees prior to the issuance of the license.

(10) Criterion 10 - (a) A minimum charge of two hundred fifty thousand dollars (1978 United States dollars) accrued as specified in WAC 246-235-080 (6)(d) to cover the costs of long-term surveillance shall be paid by each mill operator to the agency prior to the termination of a uranium or thorium mill license. If site surveillance or control requirements at a particular site are determined, on the basis of a site-specific evaluation, to be significantly greater than those specified in (a) of this subsection (e.g., if fencing is determined to be necessary), variance in funding requirements may be specified by the department. The total charge to cover the costs of long-term surveillance shall be such that, with an assumed one percent annual real interest rate, the collected funds will yield interest in an amount sufficient to cover the annual costs of site surveillance. The charge will be adjusted annually prior to actual payments to recognize inflation. The inflation rate to be used is that indicated by the change in the consumer price index published by the United States Department of Labor, Bureau of Labor Statistics. Contributions by a licensee to the long-term care trust fund pursuant to chapter 70.121 RCW shall be transferred to cover the costs assessed under this criterion.

(11) Criterion 11 - These criteria relating to ownership of tailings and their disposal sites become effective on November 8, 1981, and apply to all licenses terminated, issued, or renewed after that date.

Any uranium or thorium milling license or tailings license shall contain such terms and conditions as the United States Nuclear Regulatory Commission determines necessary to assure that prior to termination of the license, the licensee will comply with ownership requirements of this criterion for sites used for tailings disposal.

Title to the by-product material licensed pursuant to WAC 246-252-030 and land, including any interests therein (other than land owned by the United States or by the state of Washington) which is used for the disposal of any such by-product material, or is essential to ensure the long-term stability of such disposal site, shall be transferred to the United States or the state of Washington. In view of the fact that physical isolation must be the primary means of long term control, and government land ownership is a desirable supplementary measure, ownership of certain severable subsurface interests (for example, mineral rights) may be determined to be unnecessary to protect the public health and safety and the environment. In any case, the applicant/operator must demonstrate a serious effort to obtain such subsurface rights, and must, in the event that certain rights cannot be obtained, provide notification in local public land records of the fact that the land is being used for the disposal of radioactive material and is subject to either a United States Nuclear Regulatory Commission general or specific license prohibiting the disruption and disturbance of the tailings. In some rare cases, such as may occur with deep burial where no ongoing site surveillance will be

required, surface land ownership transfer requirements may be waived. For licenses issued before November 8, 1981, the United States Nuclear Regulatory Commission may take into account the status of the ownership of such land, and interests therein, and the ability of a licensee to transfer title and custody thereof to the United States or the state. If the United States Nuclear Regulatory Commission, subsequent to title transfer, determines that use of the surface or subsurface estates, or both, of the land transferred to the United States or to a state will not endanger the public health, safety, welfare or environment, the United States Nuclear Regulatory Commission may permit the use of the surface or subsurface estates, or both, of such land in a manner consistent with the provisions provided in these criteria. If the United States Nuclear Regulatory Commission permits such use of such land, it will provide the person who transferred such land with the right of first refusal with respect to such use of such land.

Material and land transferred to the United States or a state in accordance with this criterion must be transferred without cost to the United States or a state other than administrative and legal costs incurred in carrying out such transfer.

The provisions of this part, respecting transfer of title and custody to land and tailings and wastes, do not apply in the case of lands held in trust by the United States for any Indian tribe, or lands owned by such Indian tribe subject to a restriction against alienation imposed by the United States. In the case of such lands which are used for the disposal of byproduct material, as defined in this section, the licensee shall enter into arrangements with the United States Nuclear Regulatory Commission as may be appropriate to assure the long-term surveillance of such lands by the United States.

(12) Criterion 12 - The final disposition of tailings or wastes at milling sites should be such that ongoing active maintenance is not necessary to preserve isolation. As a minimum, annual site inspections must be conducted by the government agency retaining ultimate custody of the site where tailings or wastes are stored, to confirm the integrity of the stabilized tailings or waste systems, and to determine the need, if any, for maintenance and/or monitoring. Results of the inspection must be reported to the United States Nuclear Regulatory Commission within sixty days following each inspection. The United States Nuclear Regulatory Commission may require more frequent site inspections if, on the basis of a site-specific evaluation, such a need appears necessary, due to the features of a particular tailings or waste disposal system.

(13) Criterion 13 - Secondary groundwater protection standards required by Criterion 5 of this section are concentration limits for individual hazardous constituents. The list of constituents found in Appendix A of this chapter, chapter 246-252 WAC, identifies the constituents for which standards must be set and complied with if the specific constituent is reasonably expected to be in or derived from the by-product material and has been detected in groundwater. For purposes of this criterion, the property of gross alpha activity will be treated as if it is a hazardous constituent. Thus, when setting standards under subsection (5)(j) of this section, the department will also set a limit for gross alpha activity.

WSR 94-01-074
PERMANENT RULES
OFFICE OF THE
SECRETARY OF STATE
 (Corporations Division)

[Filed December 9, 1993, 4:04 p.m., effective January 10, 1994]

Date of Adoption: December 9, 1993.

Purpose: To establish the same, single fee for all service of process.

Citation of Existing Rules Affected by this Order: Amending WAC 434-110-075 (amending WSR 93-20-072, filed October 1, 1993).

Statutory Authority for Adoption: Chapters 34.05 and 43.07 RCW and Title 23B, 24 and 46 RCW.

Other Authority: Chapter 269, Laws of 1993.

Pursuant to notice filed as WSR 93-22-091 on November 2, 1993.

Changes Other than Editing from Proposed to Adopted Version: To set fee for service of process on the Secretary of State.

Effective Date of Rule: January 10, 1994.

December 9, 1993
 Donald F. Whiting
 Assistant Secretary of State

AMENDATORY SECTION (Amending WSR 93-20-072, filed 10/1/93)

WAC 434-110-075 Miscellaneous fees. (1) For photocopies, fees are as follows:

- (a) Each annual report, five-dollars;
 - (b) Articles of incorporation or any single document, ten dollars;
 - (c) Amendments to articles and mergers, twenty dollars;
 - (d) All charter documents, thirty dollars;
 - (e) Surcharge for files exceeding one hundred pages of copy, thirteen dollars for each fifty page increment (number of pages determined by weight of copies);
- (2) For certificates of existence fees are as follows:
- (a) With complete historical data, under embossed seal, thirty-dollars;
 - (b) Computer generated, under embossed seal, twenty-dollars;
 - (c) Duplicate certificate, under gold or embossed seal, twenty dollars.
- (3) For each certified copy of any document the fee is ten-dollars plus the copy fee.
- (4) For any service of process the fee is fifty dollars.

WSR 94-01-076
PERMANENT RULES
DEPARTMENT OF AGRICULTURE
 [Filed December 10, 1993, 8:50 a.m.]

Date of Adoption: December 10, 1993.

Purpose: To add five weeds to the state noxious weed list, and to amend the regions of mandatory control of Class B weeds.

Citation of Existing Rules Affected by this Order: Amending WAC 16-750-011 and 16-750-015.

Statutory Authority for Adoption: Chapter 17.10 RCW. Pursuant to notice filed as WSR 93-20-101 on October 5, 1993.

Changes Other than Editing from Proposed to Adopted Version: A proposed addition to the Class B list, saltcedar, was moved to the Class C list. A proposed addition to the Class C list, reed canarygrass, was removed.

Effective Date of Rule: Thirty-one days after filing.
 December 10, 1993

Ray H. Fann, Chairman
 Noxious Weed Control Board

AMENDATORY SECTION (Amending WSR 93-01-004, filed 12/2/92, effective 1/2/93)

WAC 16-750-011 State noxious weed list—Class B noxious weeds.

| Name | Will be a "Class B designate" in all lands lying within: |
|---|---|
| (1) blackgrass <i>Alopecurus myosuroides</i> | (a) regions 1,2,3,5,6,8,9,10 (b) Ferry, Stevens, Pend Oreille counties of region 4 (c) Adams County of region 7. |
| (2) blueweed <i>Echium vulgare</i> | (a) regions 1,2,3,4,5,6,8,9,10 (b) region 7 except for an area starting at the Stevens County line on SR 291 south to the SR 291 bridge over the Little Spokane River, thence upstream along the Little Spokane River to the first Rutter Parkway Bridge; thence south along the Rutter Parkway to the intersection of Rutter Parkway and Indian Trail Road; thence southerly along Indian Trail Road to a point three miles south (on section line between sections 22 and 27, T-26N, R-42E); thence due west to a point intersecting the line between Ranges 41 and 42; thence north along this line to a point 1/4 mile south of Charles Road; thence northwesterly parallel to Charles Road to a point 1/4 miles south of the intersection of Charles Road and West Shore Road; thence northerly along West Shore Road to the Spokane River (Long Lake); thence southeasterly along the Spokane River to the point of beginning. |
| (3) broom, Scotch <i>Cytisus scoparius</i> | (a) regions 3,4,6,7,9,10. |
| (4) bryony, white <i>Bryonia alba</i> | (a) regions 1,2,3,4,5,6,8,9 (b) region 7 except Whitman County (c) Franklin County of region 10. |
| (5) bugloss, common <i>Anchusa officinalis</i> | (a) regions 1,2,3,5,6,8,9,10 (b) region 4 except Stevens and Spokane counties (c) Lincoln, Adams, and Whitman counties of region 7. |
| (6) bugloss, annual <i>Anchusa arvensis</i> | (a) regions 1,2,3,4,5,6,8,9 (b) Lincoln and Adams counties (c) Whitman County except ranges 43 through 46 East of Townships 16 through 20 North. |
| (7) camelthorn <i>Alhagi pseudalhagi</i> | (a) regions 1,2,3,4,5,7,8,9 (b) region 6 except those portions of Sections 23,24,25, and 29 through 36, T16N, R27E, W.M. lying outside Intercountry Weed District No. 52 and except Sections 1 through 12, T15N, R27E, W.M. in Grant County (c) Franklin, Columbia, Garfield, and Asotin counties of region 10 (d) an area beginning at the Washington — Oregon border at the southwest portion of section 15, R32E, T6N, then north to the northwest corner of section 3, R32E, |

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- T7N, then east to the northeast corner of section 3, R36E, T7N, then south to southeast portion of section 15, R36E, T6N, at the Washington — Oregon border, then west along the Washington — Oregon border to the point of beginning.
- (8) catsear, common
Hypochaeris radicata
- (9) Cordgrass, smooth
Spartina alterniflora
- (10) cordgrass, common
Spartina anglica
- (11) daisy, oxeeye
Chrysanthemum leucanthemum
- (12) deadnettle, hybrid
Lamium hybridum
- (13) elodea, Brazilian
Egeria densa
- (14) fieldcress, Austrian
Rorippa austriaca
- (15) gorse
Ulex europaeus
- (16) hawkweed, orange
Hieracium aurantiacum
- (17) hawkweed, yellow
Hieracium pratense
- (18) hedge parsley
Torilis arvensis
- (19) indigobush
Amorpha fruticosa
- (20) knapweed, black
Centaurea nigra
- (21) knapweed, brown
Centaurea jacea
- (22) knapweed, diffuse
Centaurea diffusa
- (23) knapweed, meadow
Centaurea jacea x nigra
- (24) knapweed, Russian
Acroptilon repens
- (25) knapweed, spotted
Centaurea maculosa
- (26) lepyrodiclis
Lepydodictis holsteoides
- (27) loosestrife, garden
Lysimachia vulgaris
- (28) loosestrife, purple
Lythrum salicaria
- (29) loosestrife, wand
Lythrum virgatum
- (30) nutsedge, yellow
Cyperus esculentus
- (a) regions 3,4,6,7,9,10.
- (a) regions 1,3,4,5,6,7,9,10
- (b) region 2 except bays and estuaries of Skagit County
- (c) region 8 except bays and estuaries of Pacific County.
- (a) regions 1,3,4,5,6,7,8,9,10
- (b) region 2 except bays and estuaries of Skagit, Island, and Snohomish counties.
- (a) regions 7,10((-))
- (b) region 9 except those areas lying within Klickitat and Yakima counties west of Range 13 East((-))
- (c) region 6 except those areas lying within Yakima and Kittitas counties west of Range 13 E.
- (a) regions 1,3,4,5,6,7,8,9,10
- (b) region 2 except Skagit County.
- (a) regions 3,4,6,7,9,10.
- (a) regions 1,2,3,4,5,6,8,9
- (b) regions 7 and 10 except within the Palouse River Canyon from Big Palouse Falls to the Snake River.
- (a) regions 3,4,6,7,9,10
- (b) Skagit County of region 2
- (c) Thurston and Pierce counties of region 5
- (d) Wahkiakum and Cowlitz counties of region 8.
- (a) regions 3,6,9,10
- (b) Ferry County of region 4
- (c) Thurston County of region 5
- (d) Lincoln and Adams counties of region 7.
- (a) regions 1,2,3,5,6,7,8,9,10
- (b) region 4 except north of T32N in Pend Oreille County and east Highway 395 and north of Highway 20 in Stevens County.
- (a) regions 1,2,3,4,5,6,7,8,10
- (b) Yakima, Benton, Franklin counties
- (c) Klickitat County except those lands lying within T4N, R10E, R11E, R12E, R13E, R14E; T3N, R10E, R11E, R12E, R13E; T2N, R12E, R13E.
- (a) regions 1,2,3,4,5,6
- (b) regions 7 and 10 except within 200 feet of the Snake River from Central Ferry downstream
- (c) regions 8, 9, and 10 except within 200 feet of the Columbia River.
- (a) regions 1,2,3,4,5,7,9,10
- (b) region 6 except Kittitas County
- (c) region 8 except Clark County.
- (a) regions 1,2,3,4,5,7,9,10
- (b) region 6 except Kittitas County
- (c) region 8 except Clark County.
- (a) regions 1,2,5,8
- (b) Grant County lying in Townships 13 through 16 North, Ranges 25 through 27 East; Townships 17 and 18 N., Ranges 25 through 30 East; Townships 19 and 20 North, Ranges 29 and 30 East; T21N, R23E, Sections 1 through 30; T21N, R26E., Sections 5,6,7,8,17, and 18; East 1/2 Township 21N, Range 27E.; T21N, Ranges 28 through 30 E; those portions of Townships 22 through 28N, Ranges 28 through 30 E.; those portions of Township 22 through 28N., Ranges 23 through 30 E. lying in Grant County; all W.M.
- (c) Adams County except those areas within T15N, R36E, Section 36; T15N, R37E, Sections 22,26,27,28,31,32,33 and 34; T15N, R37E, western half of Sections 23, 24 and 25; T15N, R38E, Sections 2,10, 11,14,15,19 and 20; T16N, R38E, Sections 34 and 35; T17N, R37E, Sections 5 and 6
- (d) Franklin County of regions 9 and 10.
- (a) regions 1,2,3,4,5,7,9,10
- (b) region 6 except Kittitas County
- (c) region 8 except Clark County.
- (a) regions 1,2,5,7,8
- (b) region 4 except that area lying within the boundaries of the Colville Indian Reservation within Ferry County
- (c) Adams County of region 6
- (d) Intercounty Weed District No. 52
- (e) region 10 except Franklin County.
- (a) regions 1,2,3,5,6,8,9
- (b) Ferry County of region 4
- (c) Adams and Whitman counties of region 7
- (d) region 10 except Garfield County.
- (a) regions 1,2,3,4,5,6,8,9,10
- (b) region 7 except an area within Whitman County east of the Pullman — Wawawai Road from Wawawai to Pullman and south of State Highway 270 from Pullman to Moscow, Idaho.
- (a) regions 1,2,3,4,6,7,8,9,10
- (b) region 5 except King County.
- (a) regions 1,4,7,8
- (b) region 2 except Snohomish County
- (c) region 3 except within 100 feet of the ordinary highwater mark of the Okanogan River from the Canadian border south to Riverside
- (d) region 5 except King County
- (e) region 6 except that portion of Grant County lying northerly of the Frenchmen Hills-O'Sullivan Dam Road, southerly of Highway Interstate 90, easterly of the section line of the location of County Road J SW/NW if constructed and westerly of the section line of the location of County Road H SE/NE if constructed
- (f) region 9 except Benton County
- (g) region 10 except Walla Walla County
- (h) Intercounty Weed Districts No. 51 and No. 52.
- (a) regions 1,4,7,8
- (b) region 2 except Snohomish County
- (c) region 3 except within 100 feet of the ordinary highwater mark of the Okanogan River from the Canadian border south to Riverside
- (d) region 5 except King County
- (e) region 6 except that portion of Grant County lying northerly of the Frenchmen Hills-O'Sullivan Dam Road, southerly of Highway Interstate 90, easterly of the section line of the location of County Road J SW/NW if constructed and westerly of the section line of the location of County Road H SE/NE if constructed
- (f) region 9 except Benton County
- (g) region 10 except Walla Walla County
- (h) Intercounty Weed Districts No. 51 and No. 52.
- (a) regions 1,2,3,4,5,7,8
- (b) region 6 except((-)) those areas lying between State Highway 26 and State Highway 28, and westerly of Dodson Road in Grant County, and except S 1/2, Sec. 2, T20N, R25E., W.M.
- (c) region 9 except:
- (i) except those areas lying within the following boundary description within Yakima County: Beginning at the intersection of Highway 12 and Parker Heights Road and continuing easterly to Konnowac

Pass Road follow said road north to the intersection of Konnowac Pass Road and Nightingale Road. The northern boundary shall be the Roza Canal, continuing from the established point at Nightingale Road. The boundaries will follow the Roza Canal easterly to the County Line Road. The east boundaries will be the Yakima/Benton County Line from a point beginning at the County Line and Highway 22 (near Byron) continuing westerly along Highway 22 (to near the city of Mabton) to the intersection of Highway 22 and the Reservation Boundary (Division Road) and continuing north to the Yakima River. Then it will follow the river northwest to the Wapato-Donald Road continuing north along said road to Highway 12 then Highway 12 to Parker Heights Road.

- (31) oxtongue, hawkweed
Picris hieracioides
- (32) parrot feather
Myriophyllum brasiliense
- (33) pepperweed, perennial
Lepidium latifolium

- ((33)) (34) ragwort, tansy
Senecio jacobaea

- ((34)) (35) sandbur, longspine
Cenchrus longispinus

- ((35)) (36) skeletonweed, rush
Chondrilla juncea

- (ii) an area lying southerly of State Route 4 and within T2N, Ranges 13 and 14 E of Klickitat County

- (d) region 10 except Walla Walla County.
(a) regions 1,2,3,4,5,6,7,9,10
(b) region 8 except Skamania County.
(a) regions 1,2,3,4,5,6,7,9,10
(b) region 8 except Clark, Cowlitz, and Wahkiakum counties.

- (a) regions 1,2,3,4,5,7,8,10
(b) Grant County lying northerly of Township 21, North, W.M.
(c) Intercounty Weed Districts No. 51 and 52.

- (a) regions 3,4,6,7,9,10
(b) region 5, that portion of Pierce County lying south or east of a boundary beginning at the White River and State Highway 410, then west along State Highway 410 to intersection with State Highway 162 (Orting) to intersection with Orville Road, then south along Orville Road to intersection with Kapowsin Highway (304th Street East), then west following Kapowsin Highway to intersection with State Route 7, then south along State Route 7 to intersection with State Route 702, then west along State Route 702 to intersection with State Route 507, then southwest along State Route 507 to intersection with the Nisqually River.

- (a) regions 1,2,3,4,5,7,8
(b) Adams County of region 6 except for that area lying within Intercounty Weed District No. 52
(c) Intercounty Weed District No. 51.

- (a) regions 1,2,3,5,8,9
(b) Franklin County except T13N, R36E, and T14N, R36E
(c) Adams County except those areas lying ((east)) west of a ((boundary)) line running north from Franklin County along the western boundary of Range 36 East to State Highway 26 then ((east on State Highway 26 to State Highway 261 then north on State Highway 261 to Sutton Road then east on Sutton Road to Snyder Road then north on Snyder Road extended to Providence Road then west on Providence Road to Klein Road then north on Klein Road to Wollandt Road then east on Wollandt Road to Interstate 90 then east on I-90)) north on Sage Road until it intersects Lee Road, then due north until intersection with Providence Road, then east to State Highway 261, then north along State Highway 261 to its intersection with Interstate 90, henceforth on a due north line to intersection with Bauman Road, then north along Bauman Road to its terminus,

- ((36)) (37) sowthistle, perennial
Sonchus arvensis arvensis
- ((37)) (38) spurge, leafy
Euphorbia esula

- ((38)) (39) starthistle, yellow
Centaurea solstitialis

- ((39)) (40) Swainsonpea
Sphaerophysa salsula

- then due north to the Lincoln County line.
- (d) region 6 except that portion lying within Grant County that is southerly of State Highway 28, northerly of Interstate Highway 90 and easterly of Grant County Road E Northwest
- (e) Pend Oreille and Stevens counties north of Township 33 North
- (f) Ferry County
- (g) Asotin County of region 10
- (h) Garfield and Columbia counties south of Highway 12
- (i) Whitman County lying in Ranges 43 through 46 East of Townships 15 through 20 North; T14N, Ranges 44 through 46 East; and T13N, Ranges 45 and 46 East.

- (a) regions 1,2,3,4,5,7,8,9,10
(a) regions 1,2,3,4,5,6,8,9,10
(b) region 7 except as follows:
(i) T27N, R37E, Sections 34,35,36; T27N, R38E, Sections 31,32,33; T26N, R37E, Sections 1,2,3,10, 11,12,13,14,15,16,26; T26N, R38E, Sections 5, 6,7,8 of Lincoln County
(ii) T24N, R43E, Section 12, Qtr. Section 3, Parcel No. 9068 of Spokane County.

- (a) regions 1,2,3,((4))5,6,8
(b) region 4 except those areas within Stevens County bounded by a line beginning at the intersection of State Highway 20 and State Highway 25, then north to intersection with Pinkston Creek Road, then east along Pinkston Creek Road to intersection with Highland Loop Road, then south along Highland Loop Road to intersection with State Highway 20, then west along State Highway 20 to intersection with State Highway 25
(c) region 7 except those areas within Whitman County lying south of State Highway 26 from the Adams County line to Colfax and south of State Highway 195 from Colfax to Pullman and south of State Highway 270 from Pullman to the Idaho border

- ((e))
(d) Franklin County
((f))
(e) region 9 except Klickitat County
((g))
(f) in all lands lying within Asotin County, Region 10, except as follows: T11N, R44E, Sections 25,26,27,28,29,31,32, 33,34, and 35; T11N, R45E, Sections 21,22,23, and 25; T11N, R36E, Sections 19,20,21,28,29,30,31,32, and 33; T10N, R44E, Sections 1,2,3,4,5,6,8,9,10,11, 12,15, and 16; T10N, R45E, Sections 23 and 24; T10N, R46E, Sections 7,8, 17,18,19,20,21,22,27,34, and 35; T9N, R46E, Sections 1,2,12,13,14,23,24, 25,26,35, and 36; T9N, R47E, Sections 18,19,30, and 31; T8N, R46E, Sections 1,2,3,9,10,11,12,13,14,15,16,23, and 24; T8N, R47E, Sections 8,17,18,19,20,29, 30,31, and 32.

- (a) regions 1,2,3,4,5,7,8
(b) Columbia, Garfield, Asotin, and Franklin counties
(c) an area beginning at the Washington — Oregon border at the southwest portion of Section 15, R32E, T6N, then north to the northwest corner of Section 3, R32E, T7N, then east to the northeast corner of Section 3, R36E, T7N, then south to the southeast portion of Section 15, R36E, T6N, at the Washington — Oregon border, then west along the Washington — Oregon border to the point of beginning
(d) Weed District No. 3 of Grant County.

((40)) (41) thistle, musk
Carduus nutans
((44)) (42) thistle, plumeless
Carduus acanthoides

((42)) (43) thistle, Scotch
Onopordum acanthium

((43)) (44) toadflax, Dalmatian
Linaria genistifolia
spp. dalmatica

((44)) (45) watermilfoil,
Eurasian
Myriophyllum spicatum

- (a) regions 1,2,3,5,6,7,8,9,10
- (b) Spokane and Pend Oreille counties.
- (a) regions 1,2,3,5,6,7,8,9,10
- (b) region 4 except those areas within Stevens County lying north of State Highway 20.
- (a) regions 1,2,3,4,5,6,8,9
- (b) region 7 except for those areas within Whitman County lying south of State Highway 26 from the Adams County line to Colfax and south of State Highway 195 from Colfax to Pullman and south of State Highway 270 from Pullman to the Idaho border
- (c) Franklin County.
- (a) regions 1,2,5,8,10
- (b) Kittitas, Chelan, Douglas, and Adams counties of region 6
- (c) Intercounty Weed District No. 51
- (d) Weed District No. 3 of Grant County
- (e) Lincoln and Adams counties
- (f) The western two miles of Spokane County of region 7
- (g) region 9 except as follows:
 - (i) those areas lying within Yakima County
 - (ii) those areas lying west of the Klickitat River and within Klickitat County.
- (a) regions 1,8,9,10
- (b) region 7 except Spokane County.

WSR 94-01-082

PERMANENT RULES

DEPARTMENT OF LICENSING

[Filed December 13, 1993, 8:43 a.m., effective July 1, 1994]

Date of Adoption: December 13, 1993.

Purpose: To encourage highway safety and uniform traffic laws by adopting rules to serve as a model ordinance for use by any city, town, or county.

Statutory Authority for Adoption: RCW 46.90.010.

Pursuant to notice filed as WSR 93-20-079 on October 4, 1993.

Changes Other than Editing from Proposed to Adopted Version: WAC 308-330-418 proposed new section deleted. Provision proposed for adoption was contrary to RCW 46.61.230 and 46.61.240 adopted by reference in WAC 308-330-415.

Effective Date of Rule: July 1, 1994.

December 13, 1993

Kathy Baros Friedt

Director

Chapter 308-330 WAC

WASHINGTON MODEL TRAFFIC ORDINANCE

NEW SECTION

WAC 308-330-005 Purpose of this chapter. The purpose of this chapter is to encourage highway safety and uniform traffic laws by authorizing the department of licensing to adopt a comprehensive compilation of sound, uniform traffic laws to serve as a guide which local authorities may adopt by reference or any part thereof, including all future amendments or additions thereto. Any local authority which adopts this chapter by reference may at any time exclude any section or sections from this chapter which it does not desire to include in its local traffic ordinance. This chapter is not intended to deny any local authority its legislative power, but rather to enhance safe and efficient movement of traffic throughout the state by having current, uniform traffic laws available.

NEW SECTION

WAC 308-330-010 Amendments to this chapter automatically included. The addition of any new section to, or amendment or repeal of any section in, this chapter shall be deemed to amend any city, town, or county ordinance which has adopted by reference to this chapter or any part thereof, and it shall not be necessary for the legislative authority of any city, town, or county to take any action with respect to such addition, amendment, or repeal notwithstanding the provisions of RCW 35.21.180, 35A.12.140, 35A.13.180, and 36.32.120(7).

NEW SECTION

WAC 308-330-030 Uniformity in application. The provisions of this chapter relating to the operation of vehicles shall be applicable and uniform upon all persons operating vehicles upon the public highways of this state, except as otherwise specifically provided.

AMENDATORY SECTION (Amending WSR 93-01-004, filed 12/2/92, effective 1/2/93)

WAC 16-750-015 State noxious weed list—Class C noxious weeds.

| Common Name | Scientific Name |
|--------------------------------|---|
| baby's breath | <i>Gypsophila paniculata</i> |
| bindweed, field | <i>Convolvulus arvensis</i> |
| carrot, wild | <i>Daucus carota</i> |
| ((eathefly, conical | <i>Silene conoidea</i>) |
| chervil, wild | <i>Anthriscus sylvestris</i> |
| <u>cinquefoil, sulphur</u> | <u><i>Potentilla recta</i></u> |
| <u>cockle, white</u> | <u><i>Lychnis alba</i></u> |
| cocklebur, spiny | <i>Xanthium spinosum</i> |
| cross, hoary | <i>Cardaria draba</i> |
| dodder, smoothseed alfalfa | <i>Cuscuta approximata</i> |
| garden rocket | <i>Eruca vesicaria</i> spp. sativa |
| goatgrass, jointed | <i>Aegilops cylindrica</i> |
| henbane, black | <i>Hyoscyamus niger</i> |
| houndstongue | <i>Cynoglossum officinale</i> |
| kochia | <i>Kochia scoparia</i> |
| mayweed, scentless | <i>Matricaria maritima</i> var. <i>agrestis</i> |
| mullein, common | <i>Verbascum thapsus</i> |
| nightshade, bitter | <i>Solanum dulcamara</i> |
| poison-hemlock | <i>Conium maculatum</i> |
| puncturevine | <i>Tribulus terrestris</i> |
| rye, cereal | <i>Secale cereale</i> |
| <u>saltcedar</u> | <u><i>Tamarix</i> species</u> |
| snapdragon, dwarf | <i>Chaenorrhinum minus</i> |
| spikeweed | <i>Hemizonia pungens</i> |
| St. Johnswort, common | <i>Hypericum perforatum</i> |
| tansy, common | <i>Tanacetum vulgare</i> |
| toadflax, yellow | <i>Linaria vulgaris</i> |
| thistle, bull | <i>Cirsium vulgare</i> |
| thistle, Canada | <i>Cirsium arvense</i> |
| whiteweed, hairy | <i>Cardaria pubescens</i> |
| wormwood, absinth | <i>Artemisia absinthium</i> |

NEW SECTION

WAC 308-330-100 Chapter 46.04 RCW (Definitions) adopted by reference. All sections of chapter 46.04 RCW as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full.

NEW SECTION

WAC 308-330-109 Bus. "Bus" means every motor vehicle designed for carrying more than ten passengers and used for transportation of persons, and every motor vehicle, other than a taxicab, designed and used for the transportation of persons for compensation.

NEW SECTION

WAC 308-330-112 Bus stop. "Bus stop" means a fixed portion of the highway parallel and adjacent to the curb to be reserved exclusively for buses for layover in operating schedules or while waiting for, loading, or unloading passengers: *Provided*, That such bus provides regularly scheduled service within the jurisdiction of the local authority.

NEW SECTION

WAC 308-330-115 City. "City" means every incorporated city and town.

NEW SECTION

WAC 308-330-118 Demolish. "Demolish" means to destroy completely by use of a hydraulic baler and shears, or a shredder.

NEW SECTION

WAC 308-330-121 Department. "Department" means the department of licensing unless otherwise specified in this chapter.

NEW SECTION

WAC 308-330-123 Director. "Director" means the director of licensing unless the director of a different department of government is specified.

NEW SECTION

WAC 308-330-127 Holidays. "Holidays" include the first day of January, commonly called New Year's Day; the third Monday in January, commonly called Martin Luther King Jr. day; the third Monday of February, being celebrated as the anniversary of the birth of George Washington; the thirtieth day of May, commonly known as Memorial Day; the fourth day of July, being the anniversary of the Declaration of Independence; the first Monday in September, to be known as Labor Day; the fourth Thursday in November, to be known as Thanksgiving Day; the twenty-fifth day of December, commonly called Christmas Day; and any other day specified by ordinance by the local authority to be a holiday. Whenever any holiday falls upon a Sunday, the following Monday shall be a holiday.

NEW SECTION

WAC 308-330-133 Loading zone. "Loading zone" means a space reserved for the exclusive use of vehicles during the loading or unloading of property or passengers.

NEW SECTION

WAC 308-330-136 Official time standard. "Official time standard" means, whenever certain hours are named, standard time or daylight saving time as may be in current use within the jurisdiction of the local authority.

NEW SECTION

WAC 308-330-139 Ordinance. "Ordinance" means a city or town ordinance or a county ordinance or resolution.

NEW SECTION

WAC 308-330-142 Parking meter. "Parking meter" means any mechanical device or meter placed or erected adjacent to a parking meter space, for the purpose of regulating or controlling the period of time of occupancy of such parking meter space by any vehicle. Each parking meter installed shall indicate by proper legend the legal parking time and when operated shall at all times indicate the balance of legal parking time, and at the expiration of such period shall indicate illegal or overtime parking. Each meter shall bear a legend indicating the days and hours when the requirement to deposit coins therein shall apply, the value of the coins to be deposited, and the limited period of time for which parking is lawfully permitted in the parking meter space in which such meter is located.

NEW SECTION

WAC 308-330-145 Parking meter space. "Parking meter space" means any space within a parking meter zone, adjacent to a parking meter and which is duly designated for the parking of a single vehicle by appropriate markings on the pavement and/or the curb.

NEW SECTION

WAC 308-330-148 Parking meter zone. "Parking meter zone" means any highway or part thereof or any off-street parking lot on which parking meters are installed and in operation.

NEW SECTION

WAC 308-330-151 Passenger loading zone. "Passenger loading zone" means a place reserved for the exclusive use of vehicles while receiving or discharging passengers.

NEW SECTION

WAC 308-330-154 Planting strip. "Planting strip" means that portion of a highway lying between the constructed curb, or edge of the roadway, and the property line exclusive of the sidewalk area.

NEW SECTION

WAC 308-330-157 Police or police officer. "Police or police officer" includes the police officers of a city, a town, marshal, or the sheriff and his/her deputies of a county whichever is applicable, but when the term sheriff is used in this chapter, it shall only mean the sheriff.

NEW SECTION

WAC 308-330-160 Police chief or chief of police. "Police chief or chief of police" includes the police chief or chief police officer of a city, a town marshal, or the sheriff of a county, whichever is applicable, but when the term sheriff is used in this chapter, it shall only mean the sheriff.

NEW SECTION

WAC 308-330-163 Police department. "Police department" includes the police department of a city or town or the sheriff's office of a county whichever is applicable, but when the term sheriff is used in this chapter, it shall only mean the sheriff.

NEW SECTION

WAC 308-330-169 School bus zone. "School bus zone" means a designated portion of the highway along the curb reserved for loading and unloading school buses during designated hours.

NEW SECTION

WAC 308-330-172 Service parking. "Service parking" means the use of a parking meter space while rendering service in cleaning, painting, adjusting, or making minor repairs or replacements in or to buildings or building equipment or to public utilities.

NEW SECTION

WAC 308-330-175 Street. "Street" means a "city street."

NEW SECTION

WAC 308-330-178 Taxicab. "Taxicab" means a motor vehicle for hire used for the transportation of persons for compensation, and not operated exclusively over a fixed route or between fixed termini.

NEW SECTION

WAC 308-330-181 Taxicab stand. "Taxicab stand" means a fixed portion of a highway set aside for taxicabs to stand or wait for passengers.

NEW SECTION

WAC 308-330-184 Tow truck operator. "Tow truck operator" means a person, firm, partnership, association, or corporation which, in its course of business, provides towing services for vehicles and automobile hulks.

NEW SECTION

WAC 308-330-187 Traffic division. "Traffic division" means the traffic division of the police department of the local authority, or in the event a traffic division is not established, then said term whenever used in this chapter shall be deemed to refer to the police department of the local authority.

NEW SECTION

WAC 308-330-190 U-turn. "U-turn" means turning a vehicle so as to proceed in the opposite direction on the same roadway.

NEW SECTION

WAC 308-330-195 RCW sections adopted—Live-stock. The following sections of the Revised Code of Washington (RCW) pertaining to livestock on highway right-of-way as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 16.24.065, and 16.24.070.

NEW SECTION

WAC 308-330-197 RCW sections adopted—Off road and nonhighway vehicles. The following sections of the Revised Code of Washington (RCW) pertaining to off road and nonhighway vehicles as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.09.020, 46.09.120, 46.09.130, 46.09.140, and 46.09.180.

NEW SECTION

WAC 308-330-200 RCW sections adopted—Snowmobiles. The following sections of the Revised Code of Washington (RCW) pertaining to snowmobiles as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.10.010, 46.10.090, 46.10.100, 46.10.110, 46.10.120, 46.10.130, 46.10.140, and 46.10.190.

NEW SECTION

WAC 308-330-205 Public employees to obey traffic regulations. The provisions of this chapter shall apply to the drivers of all vehicles owned or operated by the United States, the state, or any county, city, town, district, or any other political subdivision of the state, subject to such specific exceptions as are set forth in this chapter.

NEW SECTION

WAC 308-330-210 Police administration. There is established in the police department of the local authority a traffic division to be under the control of a police officer appointed by, and directly responsible to, the chief of police.

NEW SECTION

WAC 308-330-215 Duty of traffic division. It shall be the duty of the traffic division with such aid as may be rendered by other members of the police department to enforce the traffic regulations of the local authority, to make arrests for traffic violations, to investigate accidents and to cooperate with the traffic engineer and other officers of the local authority in the administration of the traffic laws and in developing ways and means to improve traffic conditions, and to carry out those duties specially imposed upon the said division by this chapter and the traffic ordinances of the local authority.

NEW SECTION

WAC 308-330-220 Authority of police and fire department officials. (1) Officers of the police department or such officers as are assigned by the chief of police are authorized to direct all traffic by voice, hand, or signal in conformance with law: *Provided*, That in the event of a fire or other emergency or to expedite traffic or to safeguard pedestrians, officers of the police department may direct traffic as conditions may require notwithstanding the provisions of law.

(2) Officers of the fire department, when at the scene of a fire, may direct or assist the police in directing traffic thereat or in the immediate vicinity.

NEW SECTION

WAC 308-330-225 Records of traffic violations. (1) The police department or the traffic division thereof shall keep a record of all violations of the traffic ordinances of the local authority or of the state motor vehicle laws of which any person has been charged, with the exception of illegal parking or standing violations, together with a record of the final disposition of all such alleged offenses. Such records shall be so maintained as to show all types of violations and the total of each. Such records shall accumulate during at least a five-year period, and from that time on the records shall be maintained complete for at least the most recent five-year period.

(2) All forms for records of violations and notices of violations shall be serially numbered. For each month and year a written record of all such forms shall be kept.

(3) Records and reports concerning a person shall be available upon request only to that particular person requesting such record or report concerning himself, or the legal guardian thereof, the parent of a minor, or any authorized representative of such interested party, or the attorney or insurer thereof.

NEW SECTION

WAC 308-330-230 Traffic division to investigate accidents. It shall be the duty of the traffic division, assisted by other members of the police department, to investigate traffic accidents, to arrest, and to assist in the prosecution of those persons charged with violations of law causing or contributing to such accidents.

NEW SECTION

WAC 308-330-235 Traffic accident studies. Whenever the accidents at any particular location become numerous, the traffic division shall cooperate with the traffic engineer in conducting studies of such accidents and in determining remedial measures.

NEW SECTION

WAC 308-330-240 Traffic accident reports. The traffic division shall maintain a suitable system of filing traffic accident reports. Accident reports or cards referring to them shall be filed alphabetically by location. Such reports shall be available for the use and the information of the traffic engineer.

NEW SECTION

WAC 308-330-245 Traffic division to submit annual traffic safety report. The traffic division shall annually prepare a traffic report which shall be filed with the appointing authority of the local authority. Such report shall contain information on traffic matters in the local authority as follows:

(1) The number of traffic accidents, the number of persons killed, the number of persons injured, and other pertinent traffic accident data;

(2) The number of traffic accidents investigated and other pertinent data on the safety activities of the police;

(3) The plans and recommendations of the division for future traffic safety activities.

NEW SECTION

WAC 308-330-250 Police department to administer bicycle licenses. The police department or some other office or department designated by the local authority shall administer the bicycle license regulations required by this chapter.

NEW SECTION

WAC 308-330-255 Police department to regulate parking meters. The police department shall be responsible for the regulation, control, operation, and use of parking meters installed in all parking meter zones.

NEW SECTION

WAC 308-330-260 Traffic engineer. (1) The office of traffic engineer is established: *Provided*, That if there is no traffic engineer, then the engineer of the local authority shall serve as traffic engineer in addition to his/her other functions, and shall exercise the powers and duties with respect to traffic as provided in this chapter: *Provided further*, That if there is no engineer in the local authority, then the appointing authority shall designate a person to exercise such powers and duties.

(2) It shall be the general duty of the traffic engineer to determine the installation and maintenance of traffic control devices, to conduct engineering analysis of traffic accidents and to devise remedial measures, to conduct engineering investigations of traffic conditions, to plan the operation of traffic on the highways of the local authority, to cooperate

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with other officials in the development of ways and means to improve traffic conditions, and to carry out the additional powers and duties imposed by any ordinances of the local authority.

NEW SECTION

WAC 308-330-265 Traffic engineer—Authority. The traffic engineer is authorized:

(1) To place and maintain official traffic control devices when and as required under the traffic ordinances or resolutions of the local authority to make effective the provisions of said ordinances or resolutions, and may place and maintain such additional official traffic control devices as he/she may deem necessary to regulate, warn, or guide traffic under the traffic ordinances or resolutions of the local authority;

(2) To place and maintain official traffic control devices as he/she may deem necessary to regulate, warn, or guide traffic for construction, detours, emergencies, and special conditions;

(3) To designate and maintain, by appropriate devices, marks, or lines upon the surface of the roadway, crosswalks at intersections where in his/her opinion there is particular danger to pedestrians crossing the roadway, and in such other places as he/she may deem necessary;

(4) To establish safety zones of such kind and character and at such places as he/she may deem necessary for the protection of pedestrians;

(5) To mark traffic lanes upon the roadway of any highway where a regular alignment of traffic is necessary;

(6) To regulate the timing of traffic signals so as to permit the movement of traffic in an orderly and safe manner;

(7) To place official traffic control devices within or adjacent to intersections indicating the course to be traveled by vehicles turning at such intersections, in accordance with the provisions of this chapter, and such course to be traveled as so indicated may conform to or be other than as prescribed by law;

(8) To determine those intersections at which drivers of vehicles shall not make a right, left, or U-turn, and shall place proper signs at such intersections. The making of such turns may be prohibited between certain hours of any day and permitted at other hours, in which event the same shall be plainly indicated on the signs or they may be removed when such turns are permitted;

(9) To erect and maintain stop signs, yield signs, or other official traffic control devices to designate arterial highways or to designate intersection or other roadway junctions at which vehicular traffic on one or more of the roadways shall yield or stop and yield before entering the intersection or junction, except as provided in RCW 46.61.195;

(10) To issue special permits to authorize the backing of a vehicle to the curb for the purpose of loading or unloading property subject to the terms and conditions of such permit. Such permits may be issued either to the owner or lessee of real property alongside the curb or to the owner of the vehicle and shall grant to such person the privilege as therein stated and authorized by this section;

(11) To erect signs indicating no parking upon both sides of a highway when the width of the improved roadway does not exceed twenty feet, or upon one side of a highway as indicated by such signs when the width of the improved roadway is between twenty and twenty-eight feet;

(12) To determine when standing or parking may be permitted upon the left-hand side of any roadway when the highway includes two or more separate roadways and traffic is restricted to one direction upon any such roadway and to erect signs giving notice thereof;

(13) To determine and designate by proper signs places not exceeding one hundred feet in length in which the stopping, standing, or parking of vehicles would create an especially hazardous condition or would cause unusual delay to traffic;

(14) To determine the location of loading zones, passenger loading zones, and tow-away zones and shall place and maintain appropriate signs or curb markings supplemented with the appropriate words stenciled on the curb indicating the same and stating the hours during which the provisions of this chapter are applicable;

(15) To establish bus stops, bus stands, taxicab stands, and stands for other for hire vehicles on such highways in such places and in such number as he/she shall determine to be of the greatest benefit and convenience to the public, and every such bus stop, bus stand, taxicab stand, or other stand shall be designated by appropriate signs or by curb markings supplemented with the appropriate words stenciled on the curb;

(16) To erect and maintain official traffic control devices on any highway or part thereof to impose gross weight limits on the basis of an engineering and traffic investigation;

(17) To erect and maintain official traffic control devices on any highway or part thereof to prohibit the operation of trucks exceeding ten thousand pounds gross weight on the basis of an engineering and traffic investigation: *Provided*, That such devices shall not prohibit necessary local operation on such highways for the purpose of making a pickup or delivery;

(18) To erect and maintain official traffic control devices on any highway or part thereof to impose vehicle size restrictions on the basis of an engineering and traffic investigation;

(19) To determine and designate those heavily traveled highways upon which shall be prohibited any class or kind of traffic which is found to be incompatible with the normal and safe movement of traffic on the basis of an engineering and traffic investigation and shall erect appropriate official traffic control devices giving notice thereof;

(20) To install parking meters in the established parking meter zones upon the curb adjacent to each designated parking space;

(21) To designate the parking space adjacent to each parking meter for which such meter is to be used by appropriate markings upon the curb and/or the pavement of the highway;

(22) To post appropriate signs making it unlawful for pedestrians to cross highways in certain crosswalks when such crossing would endanger either pedestrian or vehicular traffic using the highway;

(23) To test new or proposed traffic control devices under actual conditions of traffic.

NEW SECTION

WAC 308-330-270 Local authority—Authority. After an engineering and traffic investigation by the traffic engineer, the local authority may by resolution:

(1) Decrease maximum speed limits pursuant to RCW 46.61.415;

(2) Increase maximum speed limits pursuant to RCW 46.61.415;

(3) Determine and declare the maximum speed limits on arterial highways pursuant to RCW 46.61.415;

(4) Determine and declare upon what highways angle parking shall be permitted pursuant to RCW 46.61.575(3);

(5) Prohibit, regulate, or limit, stopping, standing, or parking of vehicles on any highway at all times or during such times as shall be indicated by official traffic control devices;

(6) Determine and declare parking meter zones upon those highways or parts thereof where the installation of parking meters will be necessary to regulate parking;

(7) Close any highway or part thereof temporarily to any or all traffic;

(8) Determine and declare one-way highways pursuant to RCW 46.61.135;

(9) Determine and declare arterial highways pursuant to RCW 46.61.195 and 46.61.435.

NEW SECTION

WAC 308-330-275 Traffic safety commission—Powers and duties. (1) There is established a traffic safety commission to serve without compensation, consisting of the traffic engineer, the chief of police, or, in his/her discretion as his/her representative, the chief of the traffic division or other cognizant member of the police department, one representative each from the engineer's office and the attorney's office, and such number of other officers of the local authority and representatives of unofficial bodies as may be determined and appointed by the appointing authority of the local authority. The chair of the commission shall be appointed by such appointing authority and may be removed by such authority.

(2) It shall be the duty of the traffic safety commission, and to this end it shall have authority within the limits of the funds at its disposal, to coordinate traffic activities, to supervise the preparation and publication of traffic reports, to receive complaints having to do with traffic matters, and to recommend to the legislative body of the local authority and to the traffic engineer, the chief of the traffic division, and other officials, ways and means for improving traffic conditions and the administration and enforcement of traffic regulations.

NEW SECTION

WAC 308-330-300 RCW sections adopted—Certificates of ownership and registrations. The following sections of the Revised Code of Washington (RCW) pertaining to vehicle certificates of ownership and registrations as now or hereafter amended are hereby adopted by reference

as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.12.070, 46.12.080, 46.12.101, 46.12.102, 46.12.260, 46.12.300, 46.12.310, 46.12.320, 46.12.330, 46.12.340, 46.12.350, and 46.12.380.

NEW SECTION

WAC 308-330-305 RCW sections adopted—Vehicle licenses. The following sections of the Revised Code of Washington (RCW) pertaining to vehicle licenses as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.16.010, 46.16.011, 46.16.022, 46.16.023, 46.16.025, 46.16.028, 46.16.030, 46.16.048, 46.16.088, 46.16.135, 46.16.140, 46.16.145, 46.16.170, 46.16.180, 46.16.240, 46.16.260, 46.16.290, 46.16.316, 46.16.381, 46.16.390, 46.16.500, 46.16.505, 46.16.595, and 46.16.710.

NEW SECTION

WAC 308-330-307 RCW sections adopted—Driver licenses identicards. The following sections of the Revised Code of Washington (RCW) pertaining to driver licenses identification cards as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.20.021, 46.20.022, 46.20.025, 46.20.027, 46.20.031, 46.20.041, 46.20.045, 46.20.190, 46.20.220, 46.20.308, 46.20.336, 46.20.338, 46.20.342, 46.20.343, 46.20.344, 46.20.391, 46.20.394, 46.20.410, 46.20.420, 46.20.430, 46.20.435, 46.20.500, 46.20.510, 46.20.550, and 46.20.750.

NEW SECTION

WAC 308-330-309 RCW sections adopted—Uniform Commercial Driver's License Act. The following sections of the Revised Code of Washington (RCW) pertaining to the Uniform Commercial Driver's License Act as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.25.010, 46.25.020, 46.25.030, 46.25.040, 46.25.050, 46.25.110, 46.25.120, and 46.25.170.

NEW SECTION

WAC 308-330-310 RCW sections adopted—Financial responsibility. The following section of the Revised Code of Washington (RCW) pertaining to financial responsibility as now or hereafter amended is hereby adopted by reference as a part of this chapter in all respects as though such section were set forth herein in full: RCW 46.29.605.

NEW SECTION

WAC 308-330-312 RCW sections adopted—Mandatory liability insurance. The following sections of the Revised Code of Washington (RCW) pertaining to mandatory liability insurance as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as through such sections were set forth herein in

full: RCW 46.30.010, 46.30.020, 46.30.030, and 46.30.040.

NEW SECTION

WAC 308-330-314 RCW sections adopted—Vehicle inspection. The following sections of the Revised Code of Washington (RCW) pertaining to vehicle inspection as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.32.060 and 46.32.070.

NEW SECTION

WAC 308-330-316 RCW sections adopted—Vehicle lighting and other equipment. The following sections of the Revised Code of Washington (RCW) pertaining to vehicle lighting and other equipment as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.37.010, 46.37.020, 46.37.030, 46.37.040, 46.37.050, 46.37.060, 46.37.070, 46.37.080, 46.37.090, 46.37.100, 46.37.110, 46.37.120, 46.37.130, 46.37.140, 46.37.150, 46.37.160, 46.37.170, 46.37.180, 46.37.184, 46.37.185, 46.37.186, 46.37.187, 46.37.188, 46.37.190, 46.37.193, 46.37.196, 46.37.200, 46.37.210, 46.37.215, 46.37.220, 46.37.230, 46.37.240, 46.37.260, 46.37.270, 46.37.280, 46.37.290, 46.37.300, 46.37.310, 46.37.340, 46.37.351, 46.37.360, 46.37.365, 46.37.369, 46.37.375, 46.37.380, 46.37.390, 46.37.400, 46.37.410, 46.37.420, 46.37.423, 46.37.424, 46.37.425, 46.37.430, 46.37.435, 46.37.440, 46.37.450, 46.37.460, 46.37.465, 46.37.467, 46.37.470, 46.37.480, 46.37.490, 46.37.500, 46.37.510, 46.37.513, 46.37.517, 46.37.520, 46.37.522, 46.37.523, 46.37.524, 46.37.525, 46.37.527, 46.37.528, 46.37.529, 46.37.530, 46.37.535, 46.37.537, 46.37.539, 46.37.540, 46.37.550, 46.37.560, 46.37.570, 46.37.590, 46.37.600, 46.37.610, and 46.37.620.

NEW SECTION

WAC 308-330-320 RCW sections adopted—Size, weight, load. The following sections of the Revised Code of Washington (RCW) pertaining to vehicle size, weight, and load as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.44.010, 46.44.015, 46.44.020, 46.44.030, 46.44.034, 46.44.036, 46.44.037, 46.44.041, 46.44.042, 46.44.047, 46.44.050, 46.44.060, 46.44.070, 46.44.090, 46.44.091, 46.44.092, 46.44.093, 46.44.095, 46.44.096, 46.44.105, 46.44.120, 46.44.130, 46.44.140, 46.44.170, 46.44.173, 46.44.175, and 46.44.180.

NEW SECTION

WAC 308-330-322 RCW sections adopted—Transportation of hazardous materials. The following section of the Revised Code of Washington (RCW) pertaining to transportation of hazardous materials as now or hereafter amended is hereby adopted by reference as a part of this chapter in all respects as though such section were set forth herein in full: RCW 46.48.170.

NEW SECTION

WAC 308-330-325 RCW sections adopted—Accidents, reports. The following sections of the Revised Code of Washington (RCW) pertaining to accidents and accident reports as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.52.010, 46.52.020, 46.52.030, 46.52.040, 46.52.070, 46.52.080, 46.52.088, 46.52.090, and 46.52.100.

NEW SECTION

WAC 308-330-327 RCW sections adopted—Hulk haulers and scrap processors. The following sections of the Revised Code of Washington (RCW) pertaining to hulk haulers and scrap processors as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.79.010 and 46.79.120.

NEW SECTION

WAC 308-330-329 RCW sections adopted—Rental car businesses. The following section of the Revised Code of Washington (RCW) pertaining to rental car businesses as now or hereafter amended is hereby adopted by reference as a part of this chapter in all respects as though such section were set forth herein in full: RCW 46.87.023.

NEW SECTION

WAC 308-330-330 RCW sections adopted—Motor vehicle wreckers. The following section of the Revised Code of Washington (RCW) pertaining to motor vehicle wreckers as now or hereafter amended is hereby adopted by reference as a part of this chapter in all respects as though such section were set forth herein in full: RCW 46.80.010.

NEW SECTION

WAC 308-330-360 Owner of record presumed liable for costs when vehicle abandoned—Exception. (1) The abandonment of any vehicle or automobile hulk shall constitute a prima facie presumption that the last owner of record is responsible for such abandonment and thus liable for any costs incurred in removing, storing, and disposing of any abandoned vehicle.

(2) A registered owner transferring a vehicle shall be relieved from personal liability under this section if within five days of the transfer he/she transmits to the department a seller's report of sale on a form prescribed by the director.

NEW SECTION

WAC 308-330-365 Contract with registered disposer to dispose of vehicles and hulks—Compliance required. (1) The local authority may contract with any tow truck operator who is engaged in removing and storing of vehicles and who is registered as a registered disposer by the department for the purpose of disposing of certain automobile hulks, abandoned junk motor vehicles, and abandoned vehicles.

(2) Any registered disposer under contract to the local authority for the removing and storing of vehicles or hulks shall comply with the administrative regulations relative to the handling and disposing of vehicles or hulks as may be promulgated by the local authority or the director.

NEW SECTION

WAC 308-330-370 Stolen and abandoned vehicles—Reports of—Recovery, report required, penalty—Disposition. It shall be the duty of the chief of police to report immediately to the chief of the Washington state patrol all motor vehicles reported to them as stolen or recovered, upon forms to be provided by the chief of the Washington state patrol.

In the event that any motor vehicle reported as stolen has been recovered, failure of the person so reporting the same as stolen to report the recovery thereof to the chief of police to whom such motor vehicle was reported as stolen is a traffic infraction.

It shall be the duty of the chief of police to report to the chief of the Washington state patrol all vehicles or automobile hulks found abandoned on a highway or at any other place and the same shall, at the direction of a law enforcement officer, be placed in the custody of a registered disposer.

NEW SECTION

WAC 308-330-375 Disposition of abandoned junk motor vehicles. (1) Notwithstanding any other provision of law, the chief of police on his/her own volition, or upon request from a private person having the right to possession of property upon which an abandoned junk motor vehicle has been left, shall inspect and may authorize the disposal of an abandoned junk motor vehicle. The chief of police shall record the make of such vehicle, the serial number if available, and shall also detail the damaged or missing equipment to substantiate a fair market value as scrap only. He/she shall prepare in duplicate for each such abandoned junk motor vehicle as an authorization to dispose on a form provided by the director. He/she shall issue the original copy of such authorization to dispose to any licensed hulk hauler, motor vehicle wrecker, or scrap processor for the purpose of acquiring an abandoned junk motor vehicle: *Provided*, That such acquisition is for the purpose of ultimate transfer to and demolition by a licensed scrap processor.

(2) Any moneys arising from the disposal of abandoned junk motor vehicles shall be deposited in the county general fund.

NEW SECTION

WAC 308-330-400 Provisions of chapter refer to vehicles upon highway—Exception. The provisions of this chapter relating to the operation of vehicles refer exclusively to the operation of vehicles upon highways except:

(1) Where a different place is specifically referred to in a given section;

(2) The provisions of RCW 46.52.010, 46.52.020, 46.52.030, 46.52.070, 46.52.080, 46.52.090, and 46.61.500

through 46.61.515 shall apply upon highways and elsewhere throughout the jurisdiction of the local authority.

NEW SECTION

WAC 308-330-403 Required obedience to traffic ordinance. It is unlawful for any person to do any act forbidden or fail to perform any act required by this chapter.

NEW SECTION

WAC 308-330-406 RCW sections adopted—Abandoned, unauthorized, and junk vehicle tow truck operators. The following sections of the Revised Code of Washington (RCW) pertaining to abandoned, unauthorized, and junk vehicle tow truck operators as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.55.010, 46.55.020, 46.55.030, 46.55.035, 46.55.037, 46.55.040, 46.55.050, 46.55.060, 46.55.063, 46.55.070, 46.55.080, 46.55.085, 46.55.090, 46.55.100, 46.55.105, 46.55.110, 46.55.113, 46.55.120, 46.55.130, 46.55.140, 46.55.150, 46.55.160, 46.55.170, 46.55.230, 46.55.240, and 46.55.910.

NEW SECTION

WAC 308-330-408 RCW sections adopted—Traffic laws, signs, signals, markings. The following sections of the Revised Code of Washington (RCW) pertaining to obedience to and effect of traffic laws, traffic signs, signals and markings as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.005, 46.61.015, 46.61.020, 46.61.021, 46.61.022, 46.61.024, 46.61.025, 46.61.030, 46.61.035, 46.61.050, 46.61.055, 46.61.060, 46.61.065, 46.61.070, 46.61.072, 46.61.075, 46.61.080, 46.61.085, and 46.61.220.

NEW SECTION

WAC 308-330-409 Traffic control devices required—Stopping, standing, and parking. No prohibition, regulation, or limitation relating to stopping, standing, or parking imposed under this chapter or any ordinance of the local authority for which traffic control devices are required shall be effective unless official traffic control devices are erected and in place at the time of any alleged offense.

NEW SECTION

WAC 308-330-412 Crossing new pavement and markings. No person shall ride or drive any animal, bicycle, or vehicle, across any newly made pavement or freshly applied markings on any highway when a sign, cone marker, or other warning device is in place warning persons not to drive across such pavement or marking.

NEW SECTION

WAC 308-330-415 RCW sections adopted—Right of way. The following sections of the Revised Code of Washington (RCW) pertaining to vehicles and pedestrians use of roadways, right of way, rights and duties as now or

hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.100, 46.61.105, 46.61.110, 46.61.115, 46.61.120, 46.61.125, 46.61.130, 46.61.135, 46.61.140, 46.61.145, 46.61.150, 46.61.155, 46.61.160, 46.61.180, 46.61.185, 46.61.190, 46.61.195, 46.61.200, 46.61.202, 46.61.205, 46.61.210, 46.61.215, 46.61.230, 46.61.235, 46.61.240, 46.61.245, 46.61.250, 46.61.255, 46.61.260, 46.61.261, 46.61.264, 46.61.266, and 46.61.269.

NEW SECTION

WAC 308-330-421 RCW sections adopted—Starting and stopping. The following sections of the Revised Code of Washington (RCW) pertaining to turning, starting, signals on stopping and turning, and special stops as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.290, 46.61.295, 46.61.300, 46.61.305, 46.61.310, 46.61.315, 46.61.340, 46.61.345, 46.61.350, 46.61.355, 46.61.365, 46.61.370, 46.61.371, 46.61.372, 46.61.375, and 46.61.385.

NEW SECTION

WAC 308-330-423 RCW sections adopted—Speed restrictions. The following sections of the Revised Code of Washington (RCW) pertaining to speed restrictions as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.400, 46.61.415, 46.61.425, 46.61.427, 46.61.428, 46.61.435, 46.61.440, 46.61.445, 46.61.450, 46.61.455, 46.61.460, 46.61.465, 46.61.470, and 46.61.475.

NEW SECTION

WAC 308-330-425 RCW sections adopted—Reckless driving, vehicular homicide and assault. The following sections of the Revised Code of Washington (RCW) pertaining to reckless driving, driving while under the influence of intoxicating liquor or any drug, vehicular homicide and assault as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.500, 46.61.502, 46.61.504, 46.61.506, 46.61.515, 46.61.517, 46.61.519, 46.61.5191, 46.61.5195, 46.61.525, 46.61.530, 46.61.535, and 46.61.540.

NEW SECTION

WAC 308-330-430 Obedience to angle-parking signs or markings. Upon those highways which have been signed or marked for angle-parking, no person shall park or stand a vehicle other than at the angle to the curb or edge of the roadway indicated by such signs or markings.

NEW SECTION

WAC 308-330-433 Parking not to obstruct traffic. (1) No person shall park a vehicle upon a highway in such a manner or under such conditions as to leave available less

than ten feet of the width of the roadway for free movement of vehicular traffic.

(2) No person shall stop, stand, or park a vehicle within an alley in such position as to block the driveway entrance to any abutting property.

NEW SECTION

WAC 308-330-436 Parking for certain purposes unlawful. (1) No person shall park any vehicle upon any highway for the principle of:

- (a) Displaying advertising;
- (b) Displaying such vehicle for sale;
- (c) Selling merchandise from such vehicle, except when authorized.

(2) No person shall park any vehicle upon any roadway for the principle purpose of washing, greasing, or repairing such vehicle except repairs necessitated by an emergency.

NEW SECTION

WAC 308-330-439 Standing in passenger loading zone. No person shall stop, stand, or park a vehicle for any purpose or period of time other than for the expeditious loading or unloading of passengers in any place marked as a passenger loading zone during hours when the regulations applicable to the loading zone are effective, and then only for a period not to exceed three minutes.

NEW SECTION

WAC 308-330-442 Standing in loading zone. (1) No person shall stop, stand, or park a vehicle for any purpose or period of time other than for the expeditious unloading and delivery or pickup and loading of property in any place marked as a loading zone during hours when the provisions applicable to such zone are in effect. In no case shall the stop for loading and unloading of property exceed thirty minutes.

(2) The driver of a vehicle may stop temporarily at a loading zone for the purpose of and while actually engaged in loading or unloading passengers when such stopping does not interfere with any vehicle which is waiting to enter or about to enter such zone to load or unload property.

NEW SECTION

WAC 308-330-445 Standing in a tow-away zone. No person shall stop, stand, or park a vehicle in a place marked as a tow-away zone during hours when the provisions applicable to such zone are in effect.

NEW SECTION

WAC 308-330-448 Violating permits for loading or unloading at an angle to the curb. It shall be unlawful for any permittee or other person to violate any of the special terms or conditions of any permit issued by the traffic engineer for the backing of a vehicle to the curb for the purpose of loading or unloading property.

NEW SECTION

WAC 308-330-451 Standing or parking on one-way roadways. In the event a highway includes two or more separate roadways, no person shall stand or park a vehicle upon the left-hand side of such one-way roadway unless signs are erected to permit such standing or parking.

NEW SECTION

WAC 308-330-454 Stopping, standing, and parking of buses and taxicabs regulated. (1) The operator of a bus shall not stand or park such vehicle upon any highway at any place other than a designated bus stop. This provision shall not prevent the operator of a bus from temporarily stopping in accordance with other stopping, standing, or parking regulations at any place for the purpose of and while actually engaged in the expeditious loading or unloading of passengers or their baggage.

(2) The operator of a bus shall enter a bus stop or passenger loading zone on a highway in such a manner that the bus when stopped to load or unload passengers or baggage shall be in a position with the right front wheel of such vehicle not farther than eighteen inches from the curb and the bus approximately parallel to the curb so as not to unduly impede the movement of other vehicular traffic.

(3) The operator of a taxicab shall not stand or park such vehicle upon any highway at any place other than in a designated taxicab stand. This provision shall not prevent the operator of a taxicab from temporarily stopping in accordance with other stopping, standing, or parking regulations at any place for the purpose of and while actually engaged in the expeditious loading or unloading of passengers.

NEW SECTION

WAC 308-330-457 Restricted use of bus stops and taxicab stands. No person shall stop, stand, or park a vehicle other than a bus in a bus stop, or other than a taxicab in a taxicab stand when any such stop or stand has been officially designated and appropriately signed, except the driver of a passenger vehicle may temporarily stop there for the purpose of, or while actually engaged in, loading or unloading passengers when such stopping does not interfere with any bus, or taxicab waiting to enter or about to enter such stop or stand.

NEW SECTION

WAC 308-330-460 Right of way for parking. The driver of any vehicle who first begins driving or maneuvering his/her vehicle into a vacant parking space shall have a prior right of way to park in such place, and it shall be unlawful for another driver to attempt to deprive him/her thereof by blocking his/her access or otherwise. For the purpose of establishing right of way in this section it shall be considered proper to back into any but a front-in angle parking space.

NEW SECTION

WAC 308-330-462 RCW sections adopted—Stopping, standing, and parking. The following sections of the Revised Code of Washington (RCW) pertaining to vehicle stopping, standing, and parking as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.560, 46.61.570, 46.61.575, 46.61.581, 46.61.582, 46.61.583, and 46.61.590.

NEW SECTION

WAC 308-330-464 RCW sections adopted—Operation and restrictions. The following sections of the Revised Code of Washington (RCW) pertaining to the operation of vehicles and the restriction of certain acts and practices of vehicle operators and passengers as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.600, 46.61.605, 46.61.606, 46.61.608, 46.61.610, 46.61.611, 46.61.612, 46.61.614, 46.61.615, 46.61.620, 46.61.625, 46.61.630, 46.61.635, 46.61.640, 46.61.645, 46.61.655, 46.61.660, 46.61.665, 46.61.670, 46.61.675, 46.61.680, 46.61.685, 46.61.687, 46.61.688, 46.61.690, 46.61.700, 46.61.710, 46.61.720, and 46.61.730.

NEW SECTION

WAC 308-330-466 Funeral processions. (1) A funeral procession shall proceed to the place of interment by the most direct route which is both legal and practicable.

(2) A funeral procession shall be accompanied by adequate escort vehicles for traffic control purposes as determined by the chief of police.

(3) All motor vehicles in a funeral procession shall be identified by having their headlights turned on or by such other method as may be determined and designated by the chief of police.

(4) All motor vehicles in a funeral procession shall be operated as near to the right-hand edge of the roadway as is practicable and shall follow the vehicle ahead as close as is practicable and safe.

NEW SECTION

WAC 308-330-469 When permits required for parades and processions. With the exception of funeral processions and parades of the armed forces of the United States, the military forces of this state, and the forces of the police and fire departments, no processions or parades shall be conducted on the highways within the jurisdiction of the local authority except in accordance with a permit issued by the chief of police and such other regulations as are set forth in this chapter which may be applicable.

NEW SECTION

WAC 308-330-472 Interfering with processions. (1) No person shall unreasonably interfere with a procession.

(2) No person shall operate a vehicle that is not part of a procession between the vehicles of the procession. This provision shall not apply at intersections where traffic is

controlled by traffic control devices unless a police officer is present at such intersections to direct traffic so as to preserve the continuity of the procession.

NEW SECTION

WAC 308-330-475 Boarding or alighting from vehicles. No person shall board or alight from any vehicle while such vehicle is in motion.

NEW SECTION

WAC 308-330-478 Unlawful riding. No person shall ride upon any portion of a vehicle not designed or intended for the use of passengers. This provision shall not apply to an employee engaged in the necessary discharge of a duty, or to persons riding within truck bodies in space intended for merchandise.

NEW SECTION

WAC 308-330-481 RCW sections adopted—Operation of nonmotorized vehicles. The following sections of the Revised Code of Washington (RCW) pertaining to the operation of nonmotorized vehicles as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.61.750, 46.61.755, 46.61.758, 46.61.760, 46.61.765, 46.61.770, 46.61.775, and 46.61.780.

NEW SECTION

WAC 308-330-500 Bicycle license required. No person who resides within the jurisdiction of the local authority shall ride or propel a bicycle on any highway or upon any public path set aside for the exclusive use of bicycles unless such bicycle has been licensed and a license plate or decal is attached thereto as provided in WAC 308-330-500 through 308-330-540.

NEW SECTION

WAC 308-330-505 Bicycle license application. Application for a bicycle license and license plate or decal shall be made upon a form provided by and to the chief of police. An annual license fee as prescribed by the local authority shall be paid to the local authority before each license or renewal thereof is granted. Duplicate license plates or decals may be supplied for the same cost as the original plate or decal in the event of loss of the plate or decal.

NEW SECTION

WAC 308-330-510 Issuance of bicycle license. (1) The chief of police upon receiving proper application therefor is authorized to issue a bicycle license which shall be effective for one calendar year.

(2) The chief of police shall not issue a license for any bicycle when he/she knows or has reasonable grounds to believe that the applicant is not the owner of, or entitled to the possession of, such bicycle.

(3) The chief of police shall keep a record of the number of each license, the date issued, the name and

address of the person to whom issued, and a record of all bicycle license fees collected by him.

NEW SECTION

WAC 308-330-515 Attachment of bicycle license plate or decal. (1) The chief of police, upon issuing a bicycle license, shall also issue a license plate or decal bearing the license number assigned to the bicycle, and the name of the local authority.

(2) Such license plate or decal shall be firmly attached to the rear mudguard or frame of the bicycle for which issued in such position as to be plainly visible from the rear.

(3) No person shall remove a license plate or decal from a bicycle during the period for which issued except upon a transfer of ownership or in the event the bicycle is dismantled and no longer operated upon any highway within the jurisdiction of the local authority.

NEW SECTION

WAC 308-330-520 Inspection of bicycles. The chief of police, or an officer assigned such responsibility, may inspect each bicycle before licensing the same and may refuse a license for any bicycle which he/she determines is in unsafe mechanical condition.

NEW SECTION

WAC 308-330-525 Renewal of bicycle license. Upon the expiration of any bicycle license, the same may be renewed upon application and payment of the same fee as upon an original application.

NEW SECTION

WAC 308-330-530 Bicycle transfer of ownership. Upon the sale or other transfer of a licensed bicycle, the licensee shall remove the license plate or decal and shall either surrender the same to the chief of police or may upon proper application, but without payment of additional fee, have such plate or decal assigned to another bicycle owned by the applicant.

NEW SECTION

WAC 308-330-535 Bicycle rental agencies. A rental agency shall not rent or offer any bicycle for rent unless the bicycle is licensed and a license plate or decal is attached thereto as provided herein and such bicycle is equipped with the equipment required by RCW 46.61.780.

NEW SECTION

WAC 308-330-540 Bicycle dealers. Every person engaged in the business of buying or selling new or second-hand bicycles shall make a report to the chief of police of every bicycle purchased or sold by such dealer, giving the name and address of the person from whom purchased or to whom sold, a description of such bicycle by name or make, the frame number thereof, and number of license plate or decal, if any, found thereon.

NEW SECTION

WAC 308-330-545 Bicycles—Obedience to traffic control devices. (1) Any person operating a bicycle shall obey the instructions of official traffic control devices applicable to vehicles, unless otherwise directed by a police officer.

(2) Whenever authorized signs are erected indicating that no right or left or U-turn is permitted, no person operating a bicycle shall disobey the directions of any such sign, except where such person dismounts from the bicycle at the right-hand curb or as close as is practicable to the right edge of the right-hand shoulder to make any such turn, in which event such person shall then obey the regulations applicable to pedestrians.

NEW SECTION

WAC 308-330-550 Bicycles—Parking. No person shall park a bicycle upon a highway other than:

- (1) Off the roadway except in designated areas;
- (2) Upon the sidewalk in a rack to support the bicycle;
- (3) Against a building; or
- (4) In such manner as to afford the least obstruction to pedestrian traffic.

NEW SECTION

WAC 308-330-555 Bicycles—Riding on sidewalks.

(1) No person shall ride a bicycle upon a sidewalk in a business district.

(2) A person may ride a bicycle on any other sidewalk or any roadway unless restricted or prohibited by traffic control devices.

(3) Whenever any person is riding a bicycle upon a sidewalk, such person shall yield the right of way to any pedestrian.

NEW SECTION

WAC 308-330-560 Bicycles—Penalties. Violation of any provision of WAC 308-330-500 through 308-330-540 is a traffic infraction.

NEW SECTION

WAC 308-330-565 Unclaimed bicycles. All unclaimed bicycles in the custody of the police department shall be disposed of as provided in chapter 63.32 RCW.

NEW SECTION

WAC 308-330-600 Parking meter spaces. No person shall park a vehicle in any designated parking meter space during the restricted or regulated time applicable to the parking meter zone in which such meter is located so that any part of such vehicle occupies more than one such space or protrudes beyond the markings designating such space, except that a vehicle which is of a size too large to be parked within a single designated parking meter space shall be permitted to occupy two adjoining parking meter spaces when coins shall have been deposited in the parking meter for each space so occupied as is required for the parking of other vehicles in such spaces.

NEW SECTION

WAC 308-330-610 Parking meters—Deposit of coins and time limits. (1) No person shall park a vehicle in any parking meter space alongside of and next to which a parking meter has been installed during the restricted and regulated time applicable to the parking meter zone in which such meter is located unless a United States coin or coins of the appropriate denomination as indicated on the parking meter shall have been deposited therein, or shall have been previously deposited therein for an unexpired interval of time, and said meter has been placed in operation.

(2) No person shall permit a vehicle within his/her control to be parked in any parking meter space during the restricted and regulated time applicable to the parking meter zone in which such meter is located while the parking meter for such space indicates by signal that the lawful parking time in such space has expired. This provision shall not apply to the act of parking or the necessary time which is required to deposit immediately thereafter a coin or coins in such meter.

(3) No person shall park a vehicle in any parking meter space for a consecutive period of time longer than that limited period of time for which parking is lawfully permitted in the parking meter zone in which such meter is located, irrespective of the number or amounts of the coins deposited in such meter.

(4) The provisions of this section shall not relieve any person from the duty to observe other and more restrictive provisions of this chapter prohibiting or limiting the stopping, standing, or parking of vehicles in specified places or at specified times.

NEW SECTION

WAC 308-330-620 Parking meters—Use of slugs prohibited. No person shall deposit or attempt to deposit in any parking meter any bent coin, slug, button, or any other device or substance as substitutes for United States coins.

NEW SECTION

WAC 308-330-630 Tampering with parking meter. No person shall deface, injure, tamper with, open, or wilfully break, destroy, or impair the usefulness of any parking meter.

NEW SECTION

WAC 308-330-640 Parking meters—Rule of evidence. The parking or standing of any motor vehicle in a parking space, at which space the parking meter displays the sign or signal indicating illegal parking, shall constitute a prima facie presumption that the vehicle has been parked or allowed to stand in such space for a period longer than permitted by this chapter.

NEW SECTION

WAC 308-330-650 Parking meters—Application of proceeds. (1) The coins required to be deposited in parking meters are levied and assessed as fees to cover the regulation and control of parking upon highways, the costs of parking meters, their installation, inspection, supervision, operation,

repair, and maintenance, control and use of parking spaces, and regulating the parking of vehicles in parking meter zones; and the costs of acquiring, establishing, improving, maintaining, and operating public off-street parking facilities.

(2) The coins deposited in parking meters shall be collected by the duly authorized agents of the local authority and shall be deposited by them as directed by the local authority.

(3) The local authority shall pay from the moneys collected from parking meters the costs for any parking meters purchased and installed as provided herein, and expenses incurred for their installation, inspection, service, supervision, repair, and maintenance, for making collections from such parking meters, and for the enforcement of provisions herein applicable to parking meter zones. The net proceeds derived from the operation of parking meters after the payment of such costs and expenses, may be used for parking studies and for the acquisition, establishment, improvement, maintenance, and operation of public off-street parking facilities.

NEW SECTION

WAC 308-330-660 Service parking. The chief of police is authorized to issue a permit for service parking upon payment of the fee prescribed by the local authority and upon the following conditions:

(1) Application shall be made to the chief of police on such forms as the chief of police shall prescribe. The applicant shall set forth the applicant's business and the necessity for such permit. The chief of police shall investigate the facts as necessary.

(2) If it appears that a necessity exists, the chief of police may authorize the issuance of such permit under the conditions prescribed in this section.

(3) Upon issuance of the permit, the permittee shall be issued a hood to use in covering any parking meter. As many hoods may be issued upon payment of the prescribed fee as the chief of police deems necessary or convenient for the applicant. The hood shall be provided with a padlock, tow keys, and an identification card attached with a blank space thereon.

(4) Upon entering any parking meter space available, the permittee shall place the hood over the parking meter and lock the same and shall indicate in such blank space the exact place where the service work is being rendered.

(5) The permittee shall not place the hood over any meter when the space is occupied by another vehicle, and shall before vacating the space at the conclusion of the work remove the hood. The hood shall not be allowed to remain in place for over one hour when the space is not occupied by an authorized vehicle, nor shall it be allowed to remain in place after 6:00 p.m. on any weekday or on any Sunday or holiday. It shall not be used during hours when parking or stopping in the parking meter space is prohibited. No vehicle licensed as a passenger car shall be parked in the space covered by the hooded parking meter.

(6) The chief of police may revoke any permit if the service parking hood is used for any purpose other than that authorized in this section or for any violation of this chapter. Upon revocation, the hood shall immediately be returned to the police department and all fees paid shall be forfeited.

Police officers finding such hood in use shall investigate the use being made thereof, and if it is found in violation of this section shall report the facts to the chief of police.

(7) Any permit issued under this section shall, unless revoked, be valid for a period of one year.

(8) The permittee shall also pay a deposit in an amount prescribed by the local authority at the time of issuance of the hood, padlock, and keys, which shall remain the property of the local authority. In case a hood, a padlock, or key becomes lost or destroyed or so defaced that it is no longer usable, the permittee shall forfeit deposit.

NEW SECTION

WAC 308-330-700 RCW sections adopted—Disposition of traffic infractions. The following sections of the Revised Code of Washington (RCW) pertaining to the disposition of traffic infractions as now or hereafter amended are hereby adopted by such reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.63.010, 46.63.020, 46.63.030, 46.63.040, 46.63.060, 46.63.070, 46.63.080, 46.63.090, 46.63.100, 46.63.110, 46.63.120, 46.63.130, 46.63.140, and 46.63.151.

NEW SECTION

WAC 308-330-705 RCW sections adopted—Enforcement. The following sections of the Revised Code of Washington (RCW) pertaining to traffic enforcement agencies as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 46.64.010, 46.64.015, 46.64.025, 46.64.030, 46.64.035, 46.64.048, and 46.64.050.

NEW SECTION

WAC 308-330-710 Penalties. Unless another penalty is expressly provided by law, any person found to have committed an act designated a traffic infraction under the provisions of these rules shall be punished by a penalty of not more than two hundred fifty dollars.

NEW SECTION

WAC 308-330-720 Citation on illegally parked vehicle. Whenever any motor vehicle without driver is found parked, standing, or stopped in violation of this chapter, the officer finding such vehicle shall take its registration number and may take any other information displayed on the vehicle which may identify its user, and shall conspicuously affix to such vehicle a traffic citation.

NEW SECTION

WAC 308-330-730 Failure to comply with traffic citation attached to parked vehicle. If a violator of any provision of this chapter on stopping, standing, or parking does not appear in response to a traffic citation affixed to such motor vehicle within a period of five days, the clerk of the traffic court shall send to the owner of the motor vehicle to which the traffic citation was affixed a letter informing him/her of the violation and warning him/her that in the

event such letter is disregarded for a period of five days, a warrant of arrest will be issued.

NEW SECTION

WAC 308-330-740 Presumption in reference to illegal parking. (1) In any prosecution charging a violation of any law or regulation governing the stopping, standing, or parking of a vehicle, proof that the particular vehicle described in the complaint was stopping, standing, or parking in violation of any such law or regulation, together with proof that the defendant named in the complaint was at the time of such violation, the registered owner of such vehicle, shall constitute in evidence a prima facie presumption that the registered owner of such vehicle was the person who parked or placed such vehicle at the point where, and for the time during which, such violation occurred.

(2) The foregoing stated presumption shall apply only when the procedure as prescribed in WAC 308-330-720 and 308-330-730 has been followed.

NEW SECTION

WAC 308-330-800 RCW sections adopted—Traffic control devices. The following sections of the Revised Code of Washington (RCW) pertaining to traffic control devices as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 47.36.060, 47.36.110, 47.36.180, 47.36.200, and 47.36.220.

NEW SECTION

WAC 308-330-810 RCW sections adopted—Limited access facilities. The following sections of the Revised Code of Washington (RCW) pertaining to limited access facilities as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 47.52.010, 47.52.011, 47.52.040, 47.52.110, and 47.52.120.

NEW SECTION

WAC 308-330-815 RCW sections adopted—Alcoholic beverage control. The following sections of the Revised Code of Washington (RCW) pertaining to drinking in public conveyance as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 66.44.240 and 66.44.250.

NEW SECTION

WAC 308-330-820 RCW sections adopted—Guide and service dogs. The following sections of the Revised Code of Washington (RCW) pertaining to guide and service dogs as now or hereafter amended are hereby adopted by reference as a part of this chapter in all respects as though such sections were set forth herein in full: RCW 70.84.020, 70.84.021, and 70.84.040.

NEW SECTION

WAC 308-330-825 RCW sections adopted—Littering. The following section of the Revised Code of Washington (RCW) pertaining to littering as now or hereafter amended is hereby adopted by reference as a part of this chapter in all respects as though such section were set forth herein in full: RCW 70.93.060.

NEW SECTION

WAC 308-330-910 Uniformity of interpretation. This chapter shall be so interpreted and construed as to effectuate its general purpose to make uniform the laws of those local authorities which enact it.

WSR 94-01-083
PERMANENT RULES
PUGET SOUND AIR
POLLUTION CONTROL AGENCY
[Filed December 13, 1993, 2:13 p.m.]

Date of Adoption: December 9, 1993.

Purpose: To make specific agency regulations federally enforceable, to provide additional time for compliance with the VOC limit for commercial aerospace topcoat, to provide additional time for development of an appropriate continuous emission monitoring standard for vapor recovery units, and to clarify the regulations.

Citation of Existing Rules Affected by this Order: Repealing PSAPCA Regulation I - Section 9.06 and Regulation II - Sections 4.02, 4.04, and 4.05; amending PSAPCA Regulation I - Section 9.05, Regulation II - Sections 2.05, 3.04, 3.05, 3.08, 3.09 and 3.11, and Regulation III - Section 3.01.

Statutory Authority for Adoption: Chapter 70.94 RCW. Pursuant to notice filed as WSR 93-22-112 on November 3, 1993.

Changes Other than Editing from Proposed to Adopted Version: In Regulation II, Section 3.09, instead of requiring all commercial aerospace topcoats to comply by May 1, 1994, those topcoats already qualified will have to meet the standard by January 1, 1994; while the remaining topcoats must be qualified and comply by January 1, 1995.

Effective Date of Rule: Thirty-one days after filing.

December 10, 1993

Gerald S. Pade

Air Pollution Engineer

NEW SECTION

REGULATION I SECTION 3.23 ALTERNATE MEANS OF COMPLIANCE

Other emission reduction methods may be employed to achieve compliance with the emissions standards of Regulations I, II, and III if the owner or operator demonstrates to the satisfaction of the Control Officer that they are at least as effective as the required methods and they are included in a permit issued under Articles 6 or 7 of this Regulation.

AMENDATORY SECTION

**REGULATION I SECTION 9.05 ((INCINERATOR))
REFUSE BURNING**

- (a) It shall be unlawful for any person to cause or allow the burning of combustible refuse except in a multiple chamber incinerator ((as defined in Section 1.07 and)) provided with ((emission)) control equipment((, or in equipment found by the Control Officer in advance of such use to be equally effective for the purpose of air pollution control)).
- (b) It shall be unlawful for any person to cause or allow the operation of refuse burning equipment any time other than daylight hours.

REPEALER

**REGULATION I SECTION 9.06 REFUSE BURNING
EQUIPMENT: TIME RESTRICTION**

AMENDATORY SECTION

**REGULATION II SECTION 2.05 GASOLINE LOADING
TERMINALS**

- (a) Section 2.05 shall apply to all gasoline loading terminals with an annual gasoline throughput greater than 7,200,000 gallons.
- (b) It shall be unlawful for any person to cause or allow the loading of gasoline into any transport tank unless all the following conditions are met:
 - (1) The loading terminal shall employ bottom loading and be equipped with a vapor recovery system;
 - (2) All loading lines and vapor lines shall be equipped with vapor-tight fittings that close automatically upon disconnect;
 - (3) All vapor return lines shall be connected between the transport tank and the vapor recovery system such that all displaced volatile organic compounds are vented to the vapor recovery system; and
 - (4) The back-pressure in the vapor lines shall not exceed 4.5 kPa (18 inches) of water pressure.
- (c) The vapor recovery system required by ((Section 2.05(b))) this section shall prevent the emission of at least 90% by weight of the volatile organic compounds and shall limit the emission of volatile organic compounds to no more than 35 ((80)) milligrams per liter (mg/l) of gasoline transferred.
 ((After December 31, 1993, the vapor recovery system shall limit the emission of VOC to no more than 35 mg/l of gasoline transferred and 2.0% VOC by volume, measured as propane. If the existing system cannot meet these emission limits, the owner shall submit a Notice of Construction for a new or modified system by September 1, 1992.))
- (d) The vapor recovery system required by Section 2.05(b) shall be equipped with a continuous emission monitoring system meeting the requirements of Article 12 of Regulation I.
- ((e) The provisions of Section 2.05(d) shall take effect May 1, 1992.)

AMENDATORY SECTION

**REGULATION II SECTION 3.04 MOTOR VEHICLE
AND MOBILE EQUIPMENT COATING OPERATIONS**

- (a) It shall be unlawful for any person to cause or allow the application of any coating with a VOC content in excess of the following limits to Group I vehicles and their parts and components, or Group II vehicles and mobile equipment where color match is required:

| Type of Coating | VOC Content (excluding water ((but including negligibly reactive compounds))) | |
|-----------------------------|--|-----------|
| | Grams/Liter | (Lbs/Gal) |
| Pretreatment Wash Primer | 780 | (6.5) |
| Precoat | 780 | (6.5) |
| Primer/Primer Surfacer | 720 | (6.0) |
| Primer Sealer | 720 | (6.0) |
| Topcoat | 720 | (6.0) |
| Metallic/Iridescent Topcoat | 720 | (6.0) |

- (b) It shall be unlawful for any person to cause or allow the application of any coating with a VOC content in excess of the following limits to Group II vehicles and mobile equipment where color match is not required:

| Type of Coating | VOC Content (excluding water ((but including negligibly reactive compounds))) | |
|-----------------------------|--|----------|
| | Grams/Liter | (Lb/Gal) |
| Pretreatment Wash Primer | 780 | (6.5) |
| Precoat | 780 | (6.5) |
| Primer | 340 | (2.8) |
| Topcoat | 420 | (3.5) |
| Metallic/Iridescent Topcoat | 650 | (5.4) |
| Extreme Performance | 750 | (6.2) |
| Camouflage | 420 | (3.5) |

- (c) It shall be unlawful for any person to cause or allow the use of any specialty coating with a VOC content in excess of 840 grams/liter (7.0 lbs/gal), excluding water. Use of all specialty coatings except antiglare/safety coatings shall not exceed 5.0% of all coatings applied on a daily basis.
- (d) The maximum calculated VOC content of each coating regulated by ((Section 3.04)) this section shall be displayed on the container, or be provided in a handout at the point of sale to the end user, or be provided by other sources and be available for inspection in order to evaluate compliance.
- (e) It shall be unlawful for any person to cause or allow the application of any VOC-containing material((, including any negligibly reactive compound,)) to any Group I or II vehicle or mobile equipment or their parts and components unless the coating is applied by the use of one of the following methods:
 - (1) High volume, low pressure (0.1 to 10 psig air pressure for atomization) ((application)) spray equipment,
 - (2) Electrostatic ((application)) spray equipment,
 - (3) Flow coat ((application)),
 - (4) Dip coat ((application)),
 - (5) Brush coat ((application)),
 - (6) Hand-held aerosol cans,
 - (7) Roll coat ((application)), or

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- (8) Air brush (~~Other application methods that have received the prior written approval of the Control Officer~~).
- ~~((f)) The provisions of Section 3.04(e) shall not apply to equipment used for the application of touch up coatings, stencil coatings, or other similar applications that have received the prior written approval of the Control Officer.~~
- ~~(f)~~
~~((g))~~ It shall be unlawful for any person to use any VOC-containing material (~~(including any negligibly reactive compound)~~) for the cleanup of spray equipment, including paint lines, unless equipment for collecting the VOC-containing material (~~(including any negligibly reactive compound)~~) and minimizing the evaporation to the atmosphere is employed. All VOC-containing materials (~~(including any negligibly reactive compound)~~) that are flushed through the spray equipment or lines during cleanup shall be collected in a closed container.
- ~~(g)~~
~~((h))~~ It shall be unlawful for any person to use open containers for the storage or disposal of VOC-containing materials (~~(including any negligibly reactive compound)~~). Such containers and tanks shall be kept closed except when being cleaned or when materials are being added, mixed, or removed. Closed containers for solvent rag or paper disposal are required. Empty containers as defined in WAC 173-303-160 are exempt.
- ~~((i)) The provisions of Section 3.04 shall become effective January 1, 1992; except that for Topcoat and Clearcoat applications, Section 3.04(e) shall become effective January 1, 1993.~~

AMENDATORY SECTION

REGULATION II SECTION 3.05 GRAPHIC ARTS SYSTEMS

- (a) This section shall apply to all rotogravure and flexographic printing facilities that use more than 90 megagrams (100 tons) per year of volatile organic compounds.
- (b) Machines that have both coating units (apply a uniform layer of material across the entire width of a web) and printing units (forming words, designs and pictures) shall be included under this section rather than Section 3.03 of this Regulation (~~(Can and Paper Coating Operations)~~).
- (c) It shall be unlawful for any person to operate a facility subject to this regulation unless:
- (1) The volatile fraction of ink, as it is applied to the substrate, contains 25% by volume or less of volatile organic compounds;
 - (2) The ink, as it is applied to the substrate, less water, contains 60% by volume or more nonvolatile material; or,
 - (3) The owner or operator installs and operates:
 - (A) A capture system (~~(which)~~) that shall collect at least:

- (i) 75% of the emissions from a publication rotogravure process; or
 - (ii) 65% of the emissions from a packaging rotogravure process; or
 - (iii) 60% of the emissions from a flexographic process; and
- (B) (~~(A carbon adsorption system which)~~) Control equipment that reduces the volatile organic compound emissions from the capture system by at least 90% by weight (~~(or~~
- ~~(C) An equivalent volatile organic compound emission reduction system approved by the Control Officer).~~

AMENDATORY SECTION

REGULATION II SECTION 3.08 POLYESTER, VINYLESTER, GELCOAT, AND RESIN OPERATIONS

- (a) (~~(Section 3.08)~~) This section shall apply to manufacturing operations involving the use of polyester, vinylester, gelcoat, or resin in which the styrene monomer is a reactive monomer for the resin.
- (b) It shall be unlawful for any person to cause or allow the application of polyester resin, vinylester resin, gelcoat, or any other resin (~~(in a manufacturing facility)~~) unless the operation is conducted inside an enclosed area that is registered with the Agency. The exhaust from the operation shall be vented to the atmosphere through a vertical stack (~~(or through the use of another technique that has received the prior written approval of the Control Officer)~~). For spray-coating applications of polyester resin, vinylester resin, gelcoat, or any other resin, the enclosed area shall incorporate a dry filter to control the overspray.
- (c) It shall be unlawful for any person to use a chopper gun or spray gun to apply polyester resin, vinylester resin, gelcoat, or any other resin, unless the coating is applied by the use of one of the following methods:
- (1) High volume, low pressure (0.1 to 10 psig air pressure for atomization) (~~(application)~~) spray equipment,
 - (2) Electrostatic (~~(application)~~) spray equipment,
 - (3) Airless (~~(application)~~) spray equipment, or
 - (4) Air-assisted airless (~~(application)~~) spray equipment (~~(or~~
 - ~~(5) Other application methods that have received the prior written approval of the Control Officer).~~
- (d) The provisions of Section 3.08(c) shall not apply to touchup and repair using a hand-held, air atomized spray gun that has a container for resin as part of the gun.
- (e) It shall be unlawful for any person to use any VOC-containing material (~~(including any negligibly reactive compound)~~) for the cleanup of spray equipment, including resin lines, unless equipment for collecting the VOC-containing material (~~(including any negligibly reactive compound)~~) and minimizing the evaporation to the atmosphere is employed. All VOC-containing materials (~~(including any negligibly reactive compound)~~) that are flushed through the spray equipment or

lines during cleanup shall be collected in a closed container.

- (f) It shall be unlawful for any person to use open containers for the storage or disposal of VOC-containing materials(~~(, including any negligibly reactive compound)~~). Such containers and tanks shall be kept closed except when being cleaned or when materials are being added, mixed, or removed. Closed containers for solvent rag or paper disposal are required. Empty containers as defined in WAC 173-303-160 are exempt.
- ~~((g) The provisions of Section 3.08 shall become effective January 1, 1992.))~~

AMENDATORY SECTION

REGULATION II SECTION 3.09 AEROSPACE COMPONENT COATING OPERATIONS

- (a) ~~((Section 3.09))~~ This section shall apply to any operation in which coatings are applied to aerospace components.
- (b) It shall be unlawful for any person to cause or allow the application of any coating specified below that contains in excess of the following limits:

| Type of Coating | VOC Content (excluding water) | |
|------------------------------|----------------------------------|-----------|
| | Grams/Liter | (Lbs/Gal) |
| Military Aerospace Topcoat | 420 | (3.5) |
| Commercial Aerospace Topcoat | 420 | (3.5) |
| Military Aerospace Primer | 350 | (2.9) |
| Commercial Aerospace Primer | 350 | (2.9) |
| Temporary Protective Coating | 250 | (2.1) |

- ~~((1) The application of any primer or topecoat specified below to aerospace components that contains in excess of:~~
- ~~(A) 350 grams of VOC per liter of military aerospace primer, less water, including any negligibly reactive compound, as applied.~~
- ~~(B) 420 grams of VOC per liter of military aerospace topecoat, less water, including any negligibly reactive compound, as applied.~~
- ~~(C) Beginning January 1, 1994, 350 grams of VOC per liter of commercial aerospace primer, less water, including any negligibly reactive compound, as applied. Any conversion to water based primer before July 1, 1992 may be banked as an emission credit pursuant to Section 6.08 of Regulation I.~~
- ~~(D) Beginning January 1, 1994, 420 grams of VOC per liter of commercial aerospace topecoat, less water, including any negligibly reactive compound, as applied. Any conversion to high solids topecoat before July 1, 1992 may be banked as an emission credit pursuant to Section 6.08 of Regulation I.~~
- ~~(E) Until December 31, 1993, 650 grams of VOC per liter of commercial aerospace primer, less water, including any negligibly reactive compound, as supplied.~~
- ~~(F) Until December 31, 1993, 600 grams of VOC per liter of commercial aerospace topecoat, less~~

~~water, including any negligibly reactive compound, as supplied.~~

- ~~(2) The application of any temporary protective coating that contains more than 250 grams of VOC per liter of material, less water, including any negligibly reactive compound, as applied.~~
- ~~(e) The emission limits of Section 3.09(b) shall be achieved by:~~
 - ~~(1) The application of reasonably available low solvent coating technology;~~
 - ~~(2) A vapor collection and disposal system; or~~
 - ~~(3) An equivalent method of VOC reduction certified by the owner or operator and approved by the Control Officer.))~~

~~(c)~~
~~((d))~~ It shall be unlawful for any person to cause or allow the application of any ~~((primer, topecoat or temporary protective coating to any aerospace component))~~ coating listed in Section 3.09(b) unless the coating is applied by the use of one of the following methods:

- (1) High volume, low pressure (0.1 to 10 psig air pressure for atomization) ~~((application))~~ spray equipment,
- (2) Electrostatic ~~((application))~~ spray equipment,
- (3) Flow coat ~~((application))~~,
- (4) Dip coat ~~((application))~~,
- (5) Brush coat ~~((application))~~,
- (6) Trowel coat ~~((application))~~,
- (7) Hand-held aerosol cans,
- (8) Roll coat ~~((application))~~,
- (9) Electrodeposition ~~((application))~~,
- (10) Curtain coat ~~((application))~~, or
- (11) Air brush ~~((Other application methods that have received the prior written approval of the Control Officer))~~.

- ~~((e)) The provisions of Sections 3.09 (b) and (d) shall not apply to the following materials:~~
 - ~~(1) Coatings for masking in chemical etching operations;~~
 - ~~(2) Adhesive bonding primer;~~
 - ~~(3) Flight test coatings;~~
 - ~~(4) Space vehicle coatings;~~
 - ~~(5) Fuel tank coatings; or~~
 - ~~(6) Specialty coatings.~~

~~(f) The provisions of Section 3.09(d) shall not apply to equipment used for the application of touch-up coatings, stencil coatings, wire markings, inks, and sheet mold compounds, or other similar applications that have received the prior written approval of the Control Officer.))~~

~~(d)~~
~~((g))~~ It shall be unlawful for any person to use any VOC-containing material(~~(, including any negligibly reactive compound;))~~ for the cleanup of spray equipment, including paint lines, unless equipment for collecting the VOC-containing material(~~(, including any negligibly reactive compound;))~~ and minimizing the evaporation to the atmosphere is employed. All VOC-containing materials(~~(, including any negligibly reactive compound;))~~ that are

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flushed through the spray equipment or lines during cleanup shall be collected in a closed container.

~~(e)~~
~~((#))~~ It shall be unlawful for any person to use open containers for the storage or disposal of VOC-containing materials (~~(, including any negligibly reactive compound)~~). Such containers shall be kept closed except when being cleaned or when materials are being added, mixed, or removed. Closed containers for solvent rag or paper disposal are required. Empty containers as defined in WAC 173-303-160 are exempt.

~~(f)~~
~~((#))~~ The VOC limit for commercial aerospace topcoat in ((provisions of)) Section 3.09(b) ((3.09(d))) shall become effective January 1, 1994, except for those topcoat tints that have not been qualified as of that date. All commercial aerospace topcoats must meet the VOC limit no later than January 1, 1995 ((1992)).

AMENDATORY SECTION

REGULATION II SECTION 3.11 COATINGS AND INK MANUFACTURING

- (a) ~~((The purpose of Section 3.11 is to limit emissions of VOC from mixing vats at coating and ink manufacturing complexes. Section 3.11))~~ This section shall apply to any paint or ink manufacturing facility that mixes, blends, or compounds paints, varnishes, lacquers, enamels, shellacs, printing inks or sealers that contain volatile organic compounds.
- (b) It shall be unlawful for any person to manufacture coatings or inks unless all mixing vats containing VOC (~~(, including any negligibly reactive compound,))~~ are kept covered, except to add ingredients or to take samples, with lids that satisfy all the following conditions:
- (1) Lids shall extend at least 1/2 inch beyond the outer rim of the vat or be attached to the rim of the vat;
 - (2) Lids shall be maintained in good condition such that, when in place, they maintain contact with the rim for at least 90% of the circumference of the rim of the vat;
 - (3) Lids may have a slit to allow clearance for insertion of a mixer shaft. The slit shall be covered after insertion of the mixer, except to allow safe clearance for the mixer shaft.
- (c) It shall be unlawful for any person to cause or allow the use of VOC-containing materials (~~(, including any negligibly reactive compound,))~~ for vat cleaning unless the cleaning is done in a manner that minimizes the emissions of VOCs.
- ~~((d))~~ ~~The provisions of Section 3.11 shall become effective January 1, 1992.)~~

REPEALER

REGULATION II ARTICLE 4: GENERAL PROVISIONS

REPEALER

REGULATION II SECTION 4.02 TESTING AND MONITORING

REPEALER

REGULATION II SECTION 4.04 EXCEPTIONS TO VOC EMISSION STANDARDS AND REQUIREMENTS

REPEALER

REGULATION II SECTION 4.05 SEPARABILITY

AMENDATORY SECTION

REGULATION III SECTION 3.01 CHROMIC ACID PLATING AND ANODIZING

- (a) It shall be unlawful for any person to cause or allow the operation of any chromic acid plating or anodizing tank unless the tank is equipped with a permanent ampere-hour accumulator that is operating at all times electrical current is applied to the tank and the facility-wide uncontrolled hexavalent chromium emissions from plating or anodizing tanks are reduced by at least 95% using either of the following control techniques:
- (1) An anti-mist additive (~~((or other equally effective control method which has been approved by the Control Officer))~~) shall be employed; or
 - (2) The tank shall be equipped with:
 - (A) A capture system (~~((approved by the Control Officer, which))~~) that represents good engineering practice and (~~((which))~~) that shall be in place and in operation at all times electrical current is applied to the tank; and
 - (B) Control equipment or a ((A)) combination of anti-mist additives ((or other control method and use of control devices which)) and control equipment that collectively ((shall)) limit hexavalent chromium emissions to less than 0.15 milligrams per ampere-hour of electrical charge applied to the tank.
- (b) It shall be unlawful for any person to cause or allow the operation of any chromic acid plating or anodizing tank at a facility where the facility-wide hexavalent chromium emissions from chromic acid plating and anodizing are greater than 1 kilogram per year after the application of the control techniques required by Section 3.01(a) ((above)), unless the facility-wide uncontrolled hexavalent chromium emissions from plating and anodizing tanks are reduced by at least 99% using either of the following control techniques:
- (1) An anti-mist additive (~~((or other equally effective control method which has been approved by the Control Officer))~~) shall be employed; or
 - (2) The tank shall be equipped with:
 - (A) A capture system (~~((approved by the Control Officer, which))~~) that represents good engineering practice and (~~((which))~~) that shall be in

place and in operation at all times electrical current is applied to the tank; and

- (B) Control equipment or a ((A)) combination of anti-mist additives ((or other control method and use of control devices which)) and control equipment that collectively ((shall)) limit hexavalent chromium emissions to less than 0.03 milligrams per ampere-hour of electrical charge applied to the tank.
- (c) It shall be unlawful for any person to cause or allow the operation of any chromic acid plating or anodizing tank at a facility where the facility-wide hexavalent chromium emissions from chromic acid plating and anodizing would be greater than 1 kilogram per year after the application of the control techniques required by Section 3.01(b) ((above)), unless the facility-wide uncontrolled hexavalent chromium emissions from plating and anodizing tanks are reduced by at least 99.8% using either of the following control techniques:
- (1) An anti-mist additive (~~((or other equally effective control method which has been approved by the Control Officer))~~) shall be employed; or
 - (2) The tank shall be equipped with:
 - (A) A capture system (~~((approved by the Control Officer, which))~~) that represents good engineering practice and (~~((which))~~) that shall be in place and in operation at all times electrical current is applied to the tank; and
 - (B) Control equipment or a ((A)) combination of anti-mist additives ((or other control method and use of control devices which)) and control equipment that collectively ((shall)) limit hexavalent chromium emissions to less than 0.006 milligrams per ampere-hour of electrical charge applied to the tank.
- (d) The owner or operator of the source shall report the facility-wide hexavalent chromium emissions to the Agency annually using procedures approved by the Control Officer.
- ~~((e) The provisions of Sections 3.01 (b) and (c) shall be met on the following schedule:~~
- ~~(1) Submit Progress Report by January 1, 1992; and~~
 - ~~(2) Achieve Final Compliance by July 1, 1992.)~~

WSR 94-01-084
PERMANENT RULES
YAKIMA COUNTY
CLEAN AIR AUTHORITY
 [Filed December 13, 1993, 2:21 p.m.]

Date of Adoption: December 8, 1993.

Purpose: Explicitly state fees and fee schedules for source registration, notices of construction, asbestos removal notification, outdoor burning permits, and air operating permits.

Citation of Existing Rules Affected by this Order: Amending restated Regulation I of the YCCAA.

Statutory Authority for Adoption: Chapter 70.94 RCW.

Pursuant to notice filed as WSR 93-21-048 on October 18, 1993.

Changes Other than Editing from Proposed to Adopted Version: Clarification of terms in following subsections: Chapter 1.03(48), 1.03(49), 4.01(16), 4.01(27), 4.01(29), 4.01(30), 5.06(H), 9.04(A), and 9.04(E). Reference changed from chapter 70.94 RCW to chapter 173-401 WAC in Sections 6.01 and 6.02(B). Reference to chapter 173-490 WAC added to Section 12.01. Addition of Attachments 1 and 2, maps of Woodsmoke Control Zone and Yakima Urban Area, respectively.

Effective Date of Rule: Thirty-one days after filing.

December 10, 1993

Tom T. Silva, Director
 Air Pollution Control Officer

SECTION 4.01 - REGISTRATION

A. The owner or operator of each source within the following source categories, that does not hold an operating permit, shall register the source with the Authority:

1. Agricultural drying and dehydrating operations;
2. Asphalt plants;
3. Beverage can surface coating operations;
4. Bulk gasoline terminals;
5. Cattle feed lots; for the purposes of registration a cattle feed lot is a place with facilities for 1,000 or more head of cattle which are kept closely confined for commercial purposes and substantially all feed used is delivered to them;
6. Chemical plants;
7. Ferrous foundries;
8. Fertilizer plants;
9. Flexible vinyl and urethane coating and printing operations;
10. Grain handling, seed processing, pea and lentil processing;
11. Metallic mineral processing plants;
12. Mineralogical processing plants;
13. Nonferrous foundries;
14. Other metallurgical processing plants;
15. Petroleum refineries;
16. Power boilers;
17. Rendering plants;
18. Scrap metal operations;
19. Synthetic organic chemical manufacturing industries;
20. Sulfuric acid plants;
21. Synthetic fiber production facilities;
22. Veneer dryers;
23. Wood waste incinerators including wigwam burners;
24. Other incinerators designed for a capacity of 100 lbs. per hour or more;
25. Stationary internal combustion engines rated at 500 h.p. or more;
26. Sawmills, including processing for lumber, plywood, shake, shingle, pulp wood, insulating board, or any combination thereof.
27. Any category of stationary sources to which a New Source Performance Standard (NSPS) applies. The categories as identified in the federal regulations 40 CFR Part 60 (January 1, 1993) are as follows:

| | | | |
|------------|---|------------------------|--|
| Subpart D | Fossil fuel fired steam generators for which construction commenced after August 17, 1971, and prior to September 19, 1978, which have a heat input greater than 73 megawatts but not greater than 250 megawatts | Subpart Z | Ferroalloy production facilities |
| | | Subpart AA | Steel plants: Electric arc furnaces |
| | | Subpart AAa | Steel plants: Electric arc furnaces and argon-oxygen decarburization vessels |
| Subpart Da | Electric utility steam generating units for which construction commenced after September 18, 1978, which have a heat input greater than 73 megawatts but not greater than 250 megawatts | Subpart BB | Kraft pulp mills |
| | | Subpart CC | Glass manufacturing plants |
| | | Subpart DD | Grain elevators |
| | | Subpart EE | Industrial surface coating: Metal furniture |
| Subpart Db | Industrial-commercial-institutional steam generating units for which construction commenced after June 19, 1984, and prior to June 19, 1986, which have a heat input greater than 29 megawatts but less than 73 megawatts | Subpart GG | Stationary gas turbines |
| | | Subpart HH | Lime manufacturing plants |
| | | Subpart KK | Lead-acid battery plants |
| | | Subpart LL | Metallic mineral processing plants |
| | | Subpart MM | Automobile and light duty truck surface coating operations |
| Subpart Dc | Small industrial-commercial-institutional steam generating units | Subpart NN | Phosphate rock plants |
| Subpart E | Incinerators | Subpart PP | Ammonium sulfate manufacture |
| Subpart Ea | Municipal waste combustors | Subpart QQ | Publication rotogravure printing |
| Subpart F | Portland cement plants | Subpart RR | Pressure sensitive tape and label surface coating operations |
| Subpart G | Nitric acid plants | Subpart SS | Industrial surface coating: Large appliances |
| Subpart H | Sulfuric acid plants | Subpart TT | Industrial surface coating: Metal coils |
| Subpart I | Asphalt concrete plants | Subpart UU | Asphalt processing and asphalt roofing manufacture |
| Subpart J | Petroleum refineries which produce less than 25,000 barrels per day of refined products | Subpart VV | SOCMI equipment leaks (VOC) |
| Subpart K | Storage vessels for petroleum liquid constructed after June 11, 1973, and prior to May 19, 1978, which have a capacity greater than 40,000 gallons | Subpart WW | Beverage can surface coating operations |
| Subpart Ka | Storage vessels for petroleum liquids constructed after May 18, 1978, which have a capacity greater than 40,000 gallons | Subpart XX | Bulk gasoline terminals |
| Subpart Kb | Volatile organic liquid storage vessels (including petroleum liquid storage vessels) constructed, reconstructed, or modified after July 23, 1984 | Subpart AAA | New residential wood heaters |
| Subpart L | Secondary lead smelters | Subpart BBB | Rubber tire manufacturing industry |
| Subpart M | Brass and bronze ingot production plants | Subpart DDD | VOC emissions from the polymer manufacturing industry |
| Subpart N | Iron and steel plants | Subpart FFF | Flexible vinyl and urethane coating and printing |
| Subpart O | Sewage treatment plants | Subpart GGG | Petroleum refineries - compressors and fugitive emission sources |
| Subpart P | Primary copper smelters | Subpart HHH | Synthetic fiber production facilities |
| Subpart Q | Primary zinc smelters | Subpart III | VOC emissions from SOCMI air oxidation unit processes |
| Subpart R | Primary lead smelters | Subpart JJJ | Petroleum dry cleaners |
| Subpart S | Primary aluminum reduction plants | Subpart KKK | Equipment leaks of VOC from onshore natural gas processing plants |
| Subpart T | Phosphate fertilizer industry: Wet process phosphoric acid plants | Subpart LLL | Onshore natural gas processing; SO ₂ emissions |
| Subpart U | Phosphate fertilizer industry: Superphosphoric acid plants | Subpart NNN | VOC emissions from SOCMI distillation operations |
| Subpart V | Phosphate fertilizer industry: Diammonium phosphate plants | Subpart PPP | Wool fiberglass insulation manufacturing plants |
| Subpart W | Phosphate fertilizer industry: Triple superphosphate plants | Subpart QQQ | VOC emissions from petroleum refinery wastewater emissions |
| Subpart X | Phosphate fertilizer industry: Granular triple superphosphate storage facilities | Subpart SSS | Magnetic tape coating facilities |
| Subpart Y | Coal preparation plants | Subpart TTT | Industrial surface coating: Surface coating of plastic parts for business machines |
| | | Subpart VVV | Polymeric coating of supporting substrates facilities: |

Note: For fossil fuel fired steam generators referenced by Subpart D and Da above, units greater than 250 megawatts are governed by the energy facility site.

28. Any source which emits a contaminant subject to a National Emission Standard for Hazardous Air Pollutants (NESHAPS);

29. Any major stationary source as defined below; "Major source" means any stationary source (or any group of stationary sources) that are located on one or more contiguous or adjacent properties, and are under common control of the same person (or persons under common control) belonging to a single major industrial grouping and that are described in (a), (b), or (c) of this subsection. For the purposes of defining "major source," a stationary source or group of stationary sources shall be considered part of a single industrial grouping if all of the pollutant emitting activities at such source or group of sources on contiguous or adjacent properties belong to the same major group (i.e., all have the same two-digit code) as described in the *Standard Industrial Classification Manual*, 1987.

(a) A major source under section 112 of the FCAA, which is defined as any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit, in the aggregate, ten tons per year (tpy) or more of any hazardous air pollutant which has been listed pursuant to section 112(b) of the FCAA, twenty-five tpy or more of any combination of such hazardous air pollutants, or such lesser quantity as the Administrator may establish by rule. Notwithstanding the preceding sentence, emissions from any oil or gas exploration or production well (with its associated equipment) and emissions from any pipeline compressor or pump station shall not be aggregated with emissions from other similar units, whether or not such units are in a contiguous area or under common control, to determine whether such units or stations are major sources; or

(b) A major stationary source of air pollutants, as defined in section 302 of the FCAA, that directly emits or has the potential to emit, one hundred tpy or more of any air pollutant (including any major source of fugitive emissions of any such pollutant, as determined by rule by the Administrator).

(c) A major stationary source as defined in part D of title I of the FCAA, including:

(i) For ozone nonattainment areas, sources with the potential to emit one hundred tpy or more of volatile organic compounds or oxides of nitrogen in areas classified as "marginal" or "moderate," fifty tpy or more in areas classified as "serious," twenty-five tpy or more in areas classified as "severe," and ten tpy or more in areas classified as "extreme"; except that the references in this paragraph to one hundred, fifty, twenty-five, and ten tpy of nitrogen oxides shall not apply with respect to any source for which the Administrator has made a finding, under section 182 (f)(1) or (2) of the FCAA, that requirements under section 182(f) of the FCAA do not apply;

(ii) For ozone transport regions established pursuant to section 184 of the FCAA, sources with the potential to emit fifty tpy or more of volatile organic compounds;

(iii) For carbon monoxide nonattainment areas (A) that are classified as "serious," and (B) in which stationary

sources contribute significantly to carbon monoxide levels, sources with the potential to emit fifty tpy or more of carbon monoxide; and

(iv) For particulate matter (PM-10) nonattainment areas classified as "serious," sources with the potential to emit seventy tpy or more of PM-10.

30. Any of the following categories of sources which are listed in WAC 173-460-030(1):

Standard industrial classifications:

Major group 10-Metal mining.

Major group 12-Bituminous coal and lignite mining.

Major group 13-Oil and gas extraction.

Manufacturing industries major groups 20-39.

Major group 49-Electric, gas, and sanitary services except 4971 irrigation systems.

Dry cleaning plants, 7216.

General medical surgical hospitals, 8062.

Specialty hospitals, 8069.

National Security, 9711.

Any Source category listed in WAC 173-490-030(1) except WAC 173-490-030 (1)(e) Gasoline dispensing facilities.

WAC 173-490-030(1) categories:

- a. Petroleum refineries.
- b. Petroleum liquid storage tanks.
- c. Gasoline loading terminals.
- d. Bulk gasoline plants.
- e. ~~Gasoline dispensing facilities.~~
- f. Surface coaters.
- g. Open top vapor degreasers.
- h. Conveyerized degreasers.
- i. Gasoline transport tanks.
- j. Vapor collection systems.
- k. Perchloroethylene dry cleaning systems.
- l. Graphic arts systems.
- m. Surface coaters of miscellaneous metal parts and products.
- n. Synthesized pharmaceutical manufacturing facilities.
- o. Flatwood panel manufacturers and surface finishing facilities.

Any of the following sources:

Landfills.

Sites subject to chapter 173-340 WAC Model Toxics Control Act—Cleanup regulation.

B. A special report of closure shall be filed with the Authority whenever operations producing emissions are permanently ceased for any source listed in Section 4.01(A) above.

C. It shall be the duty of all persons, firms or corporations engaged in the business of selling combustion type orchard heating devices to report to the Authority the sale of such devices to be installed or used anywhere within the jurisdiction of the Yakima County Clean Air Authority.

The report herein provided for shall be in writing and shall be delivered to or mailed to the Authority within ten (10) days after such sale and shall contain the name and address of the purchaser and the location of the property at which such devices are to be installed or used.

D. The owner or operator of any proposed new source shall register the source with the Authority.

E. Initial registration and reporting shall be on forms supplied by the Authority within the time specified thereon. The forms will provide for the submission of information concerning locations, size and height of contaminant outlets, processes employed, nature of the contaminant emission and such other information relevant to air pollution as the Authority may require.

After initial registration and reporting, subsequent general reports shall be filed annually during January on forms supplied by the Authority in accordance with the terms of the Pollution Disclosure Act of 1971, Chapter 160, Laws of 1971, Extraordinary Session.

F. A separate registration shall be required for each source of contaminant provided that an owner or lessee has the option to register a process with a detailed inventory of contaminant sources and emissions related to said process and provided further than an owner need not make a separate registration for identical units or equipment or control apparatus installed, altered or operated in an identical manner on the same premises.

G. Each registration shall be signed by the owner or lessee or agent for such owner or lessee. The owner or the lessee of the source shall be responsible for the registration and the correctness of the information submitted.

H. All registrants shall pay a fee for registration in accordance with the registration fee schedule in Article XIII, Section 13.01 of this regulation.

Reviser's note: The spelling errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

SECTION 4.02 - NOTICE OF CONSTRUCTION

A. General Requirement.

No person shall construct, install or establish a new air contaminant source, except those sources excluded in Section 4.03 of this Regulation, without first filing with the Authority a "Notice of Construction, Installation or Establishment of New Air Contaminant Source", on forms prepared and furnished by the Authority.

For the purpose of this section, addition to or enlargement or replacement of an air contaminant source, or any major alteration therein, shall be construed as construction, installation or establishment of a new air contaminant source.

B. Completeness Determination.

Within thirty (30) days after the receipt of Notice of Construction application the Authority shall either notify the applicant in writing that the application is complete or that additional information is necessary. The Authority may require the submission of plans, specifications and such other information as it deems necessary concerning the proposed construction, installation and establishment of such source.

C. Final Approval.

Within sixty (60) days of receipt by the Authority of a complete Notice of Construction application the Authority shall either:

1. Issue a final decision on the application, or
2. For those Notice of Construction application reviews subject to public notice initiate notice and comment on a proposed decision and issue thereafter, as promptly as possible, a final decision.

D. Conditions.

Every order of approval issued pursuant to this section shall:

1. Be reviewed prior to issuance by a professional engineer in the employ of the Authority or the Washington State Department of Ecology.

2. Include a determination of whether the operation of the new air contaminant source at the location proposed will cause any ambient air quality standard to be exceeded or cause a potential hazard to public health.

3. Include a determination that the proposed new source will comply with all applicable New Source Performance Standards and National Emission Standards for Hazardous Air Pollutants.

Any Notice of Construction review of a modification shall be limited to the emission unit or units proposed to be modified and the air contaminants whose emissions would increase as the result of the modification.

Nothing in this Regulation shall be construed to authorize the Board to require the use of emission control equipment or other equipment, machinery or devices of any particular type from any particular supplier or produced by any particular manufacturer.

Any features, machines and devices constituting parts of or called for by plans, specifications or other information submitted pursuant to this section shall be maintained and operated in good working order.

The absence of any ordinance, resolution, rule or regulation or the failure to issue an order pursuant to this section shall not relieve a person from his or her obligation to comply with applicable emission control requirements or with any other provision of the law.

E. Control Technology Requirements:

For new sources in nonattainment areas, Best Available Control technology (BACT) will be employed, except that if the new source is a major stationary source or the proposed modification is a major modification it will achieve the Lowest Achievable Emission Rate (LAER) for the contaminants for which the area has been designated nonattainment.

For new sources in attainment or nonclassifiable areas, Best Available Control Technology (BACT) will be employed for all pollutants not previously emitted or whose emissions would increase as a result of the new source or modification.

For an existing stationary source for which the emission control technology is replaced or substantially altered, Reasonably Available Control Technology (RACT) and reasonable operation and maintenance conditions for the control equipment may be required by the Authority.

F. Notice of Completion - Notice of Violation.

The owner or applicant shall notify the Board or Control Officer of the completion of construction, installation or establishment and the date upon which operation will commence. The Board or Control Officer may, within thirty (30) days of receipt of notice of completion, inspect the construction, installation, or establishment, and the Board or Control Officer may issue a Notice of Violation, if he finds

that the construction, installation, or establishment is not in accord with the plans, specifications or other information submitted to the Authority.

G. Temporary Sources.

For sources such as asphalt batch plants with multiple locations which locate temporarily at particular sites, the owner or operator shall be permitted to operate at a temporary location without filing a notice of construction, providing that the owner or operator notifies the Authority of intent to operate at the new location at least thirty (30) days prior to starting the operation, and supplies sufficient information to enable the Authority to determine that the operation will comply with the emission standards for a new source and the applicable ambient air standards. The permission to operate shall be for a limited period of time and the Authority may set specific conditions for operation during said period which shall include a requirement to comply with all applicable emission standards.

H. Public Notice.

1. Notice of Construction applications shall be subject to public notice under the following conditions:

- a. If otherwise required by state or federal laws or regulations; or
- b. If the proposed source would cause an annual increase of ten tons of any air contaminant for which the ambient air quality standards have been established; or
- c. If the Yakima County Clean Air Authority determines that such public comment would be appropriate.

2. Within fifteen days of receipt of a complete application for a Notice of Construction the Authority shall determine whether public notice is required, and if so it shall publish notice to the public of an opportunity to submit written comments during a thirty (30) day period. Such public notice shall contain the following information:

- a. The name and address of the owner;
- b. A brief description of the proposed construction;
- c. The location at which a copy of the preliminary determination and a summary of the information considered in making such preliminary determination are available to the public.

I. Fee Assessment.

Any person submitting a Notice of Construction pursuant to the terms of this Regulation shall be assessed a fee by the Authority in accordance with the fee schedule in Article XIII, Section 13.02 of this regulation.

SECTION 5.01 - OUTDOOR BURNING

Outdoor burning in Yakima County shall, unless specifically exempted in Section 5.03(E), be conducted only by permit issued by the local responsible jurisdiction and shall be subject to the limitations set forth herein.

A. The issuance of outdoor burning permits for the following activities shall be governed by the Authority, local city, town or fire protection district in which such fire or fires are being conducted.

1. Residential Burning;
2. Outdoor burning of residue of natural character such as trees, stumps, shrubbery or other natural vegetation arising from land clearing projects.

B. The issuance of permits for the following outdoor burning shall be governed by the Washington State Depart-

ment of Natural Resources or by federal authorities for lands under federal control:

1. Abating of forest fire hazard;
2. Prevention of fire hazard;
3. Instruction of public officials in the method of forest fire fighting;
4. Any silviculture operation to improve the forest lands of the state;

5. All silvicultural burning used to promote regeneration of rare and endangered plants found within natural area preserves, as identified under Chapter 79.70 RCW or used to maintain fire dependent ecosystems for rare plants or animals within the state, federal and private natural park area preserves, natural resource conservation areas, parks and other wildlife areas.

C. All other outdoor burning will be governed by permits issued by the Yakima County Clean Air Authority.

D. It is a violation of these Regulations for any person to conduct outdoor burning without obtaining a permit from the responsible jurisdiction as set forth above.

E. Any person requesting a permit from a local responsible jurisdiction, such as local city, town, fire protection district, conservation district or the Authority, for an outdoor burning permit shall pay a fee as governed by the fee schedule of that agency then in effect. The fee schedule in effect for the Yakima County Clean Air Authority is as shown in Article XIII, Section 13.03 of this regulation.

SECTION 5.09 - MINIMUM STANDARDS OR PROCEDURES FOR CERTAIN SOURCE CATEGORIES

The Authority finds that reasonable regulation of sources within certain categories requires separate standards applicable to such categories. The standards set forth in this section shall be the minimum standards for sources within the categories listed and except as specifically provided in this Section, such sources shall be required to meet the provisions of Section 5.06, Section 5.07, and Section 5.08.

A. Asphalt Batch Plants.

1. All batch plants shall meet all requirements of Title 40 CFR 60.90 Subpart I, "Standards of Performance for Hot Mix Asphalt Facilities".

2. Asphalt batch plants shall utilize Best Available Control Technology and shall be maintained and operated to minimize emissions.

B. Hogged Fuel Boilers.

1. No person shall operate a hogged fuel boiler that will cause or permit an emission for more than three (3) minutes in any one (1) hour of an air contaminant from any source which, at the emission point or within a reasonable distance of the emission point, exceeds twenty percent (20%) opacity or which causes an emission of particulate matter in excess of one-fifth (0.20) grains per standard dry cubic foot.

Provided that emissions may exceed twenty percent opacity for up to fifteen consecutive minutes once in any eight hours. The intent of this provision is to permit the soot blowing and grate cleaning necessary to the operation of these units. This practice is to be scheduled for the same specific times each day and the Authority shall be notified of the schedule or any changes.

2. All hogged fuel boilers shall utilize Reasonably Available Control Technology and shall be maintained and operated to minimize emissions.

3. The Authority may establish additional requirements for hogged fuel boilers located in or proposed for location in sensitive areas. These additional requirements may include, but shall not be limited to:

a. A requirement to meet provisions of Section 5.07.

b. A requirement to utilize Best Available Control Technology.

c. A requirement to reduce or eliminate emissions if the Authority establishes that such emissions unreasonably interfere with the use or enjoyment of the property of others or if such reductions or eliminations are necessary to meet ambient air quality standards.

C. Orchard Heating.

1. Burning of rubber material, asphaltic products, crankcase oil or petroleum wastes, plastic, or garbage is prohibited.

2. It shall be unlawful to burn any material or operate any orchard heating device that causes visible emissions exceeding twenty percent (20%) opacity, except during the first thirty (30) minutes after such device or material is ignited.

D. Grain Elevators.

1. Any grain elevator which is primarily classified as a materials handling operation shall meet all the provisions of Section 5.06, B, C, D, and E.

2. The Authority may establish additional requirements for grain elevators located, or proposed for location, in sensitive areas. These requirements may include, but shall not be limited to:

a. A requirement to meet the provisions of Section 5.06 and Section 5.08.

E. Asbestos.

No person shall remove or otherwise disturb asbestos, to the extent that asbestos fibers may become airborne, without notifying the Authority ten (10) business days prior to removal. If removal is necessary due to an emergency, the ten day waiting period may be waived by the Authority.

1. Private Residents.

Private homeowners, when removing friable asbestos materials from their normally occupied or will be normally occupied homes, may be required to remove the asbestos materials according to the National Emission Standard for Hazardous Air Pollutants (NESHAPS) as set forth in Title 40 Code of Federal Regulations part 61, as the same now exists or may be amended. Removal and disposal of non-friable asbestos materials shall be conducted in accordance with practices and procedures approved by the Authority.

2. Small Quantity Asbestos Material.

Asbestos Materials in quantities less than 160 square feet or 260 linear feet must be removed and disposed of according to practices and procedures approved by the Authority.

3. Commercial, Industrial or other sources.

No person shall demolish any commercial, institutional, or industrial building, or any residential facility constructed to house four (4) or more families without first performing a thorough inspection, to be conducted by a qualified expert to determine the quantities and types of asbestos materials present. If it is determined that such building contains asbestos, no person shall commence the demolition of such

facility without complying with the requirements of NESHAPS, the Federal Rule stated in E (1) above.

4. Fees or Administrative Charges.

Fees associated with this subsection (5.09(E)) shall be in accordance with Article XIII, Section 13.04 of this regulation.

Reviser's note: The spelling errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

SECTION 6.09 - FEE ASSESSMENT

Pursuant to RCW 70.94.161(14), the Authority shall allocate its fiscal 1994 air operating permit program development costs among the sources under its jurisdiction emitting one hundred tons or more per year of a regulated pollutant during calendar year 1992 and shall collect interim fees from these sources. Interim air operating permit fees collected by the Authority on behalf of the Department of Ecology shall be remitted to the Department by March 1, 1994.

Pursuant to RCW 70.94, (Bill 1089), the Authority shall determine, assess, and collect annual fees sufficient to cover the Authority's direct and indirect costs of implementing its air operating permit program.

Upon receiving delegation authority per Section 6.03 of this article, air operating permit fees collected by the Authority on behalf of the Department of Ecology shall be collected from each source in two equal payments and shall be remitted to the Department by March 1 and June 30, respectively, of each year.

All air operating permit fees collected by the Authority on its own behalf shall be deposited into an air operating permit account dedicated exclusively to the support of its Air Operating Permit Program. The payment schedule for all air operating permit fees collected by the Authority on its own behalf shall be four equal payments with each payment due at the beginning of the respective fiscal quarter. The fiscal year for the Authority begins July First.

All air operating permit fees collected by the Authority on behalf of itself shall be calculated according to Article XIII, Section 13.05 of this regulation.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

ARTICLE XIII

FEE SCHEDULES AND OTHER CHARGES

SECTION 13.01 - REGISTRATION FEE SCHEDULE

Sources required to register according to the requirements of Article IV of this regulation shall pay annual registration fees according to the following schedule:

| Criteria | Class | Fee |
|---|-----------|-------|
| Potential Controlled Emissions > 100 tons per year | A-1 | \$550 |
| Potential Uncontrolled Emissions > 100 tons per year | A-2 | \$550 |
| Potential Uncontrolled Emissions < 100 tons per year | B | \$75 |
| Potential Controlled Toxic Emissions > 10/25* tons per year | A-1 toxic | \$550 |
| Potential Uncontrolled Toxic Emissions > 10/25* tons per year | A-2 toxic | \$550 |
| Potential Uncontrolled Toxic Emissions < 10/25* tons per year | B toxic | \$75 |

*10 tons of a single toxic pollutant or a combined total of 25 tons of two or more toxic pollutants.

SECTION 13.02 - NOTICE OF CONSTRUCTION FEE SCHEDULE

Sources required to file a "Notice of Construction, Installation or Establishment of New Air Contaminant Source" shall pay a fee according to the following schedule:

| | |
|--|---------|
| Filing Fee (for all sources): | \$50 |
| Fuel Burning Equipment Installation (MMBTU/H): | |
| <5 | \$25 |
| 5-10 | \$100 |
| 10-20 | \$150 |
| 20-50 | \$250 |
| 50-100 | \$350 |
| 100-250 | \$500 |
| 250-500 | \$1,000 |
| >500 | \$1,500 |
| Fuel Burning Equipment Fuel Change (MMBTU/H): | |
| <5 | \$15 |
| 5-10 | \$40 |
| 10-20 | \$60 |
| 20-50 | \$80 |
| 50-100 | \$100 |
| 100-250 | \$150 |
| 250-500 | \$200 |
| >500 | \$250 |
| Refuse Burning Equipment (tons per day Rated Capacity): | |
| <5(w/o HCl controls) | \$100 |
| 5-12(w/o HCl controls) | \$200 |
| <12(w/ HCl controls) | \$500 |
| 12-250(w/ HCl controls) | \$2,000 |
| >250(w/ HCl controls) | \$4,000 |

| | |
|--|---------|
| Solid Waste Incineration (tons/hour): | |
| 0.5-2 | \$0 |
| 2-4 | \$0 |
| >4 | \$0 |
| Other Incinerators (pounds/hour): | |
| <100 | \$0 |
| 100-200 | \$300 |
| 200-500 | \$500 |
| 500-1,000 | \$750 |
| Volatile Material Storage Tanks (gals): | |
| <4,000 | \$0 |
| 4,000-20,000 | \$0 |
| 20,000-40,000 | \$65 |
| 40,000-100,000 | \$200 |
| 100,000-500,000 | \$750 |
| 500,000-1,000,000 | \$1,200 |
| >1,000,000 | \$1,200 |
| Significant Emissions Surcharge: | \$250 |
| Gasoline Stations: | |
| Stage I | \$50 |
| Stage II | \$50 |
| Temporary Source: | \$75 |
| Odor Source: | \$200 |
| SEPA: | \$50 |

PERMANENT

SECTION 13.03 - OUTDOOR BURNING PERMIT FEES

The Authority shall collect a fee of \$5 for each outdoor burning permit it issues under the requirements of Article V of this regulation.

SECTION 13.04 - ASBESTOS NOTIFICATION FEE SCHEDULE

Any person applying for a Notification of Demolition or Renovation from the Authority or private homeowners, prior to removing asbestos materials from their homes, may be assessed a fee by the Authority in accordance with the following fee schedule:

PERMANENT

| Amount to be removed: | | Fee |
|------------------------|-------------|-------|
| lineal feet | square feet | |
| >50,000 | >10,000 | \$500 |
| <50,000 | <10,000 | \$250 |
| <5,000 | <1,000 | \$100 |
| <260 | <160 | \$25 |
| <11 | <10 | \$25 |
| Residential | | \$25 |
| Surcharges/Other Fees: | | |
| Emergency | | \$50 |
| Demolition | | \$0 |
| Amendment | | \$25 |
| Annual Notices | | \$100 |
| Encapsulation | | \$0 |

SECTION 13.05 - AIR OPERATING PERMIT FEE DETERMINATION

A. Workload Analysis.

The Authority shall conduct an annual workload analysis of its air operating permit program to determine the adequacy and fairness of the air operating permit fees. The workload analysis shall identify all permit administration activities that the Authority will perform during that year. Permit Administration activities included all activities listed in RCW 70.94.162 (2)(a). The workload analysis shall be based on the Authority's historical record of time and resource expenditures attributable to the air operating permit program.

B. Budget Development.

The Authority shall prepare an annual operating permit program budget. The budget shall included both the direct and indirect costs of the permit administration activities identified in the workload analysis, and shall take into account projected fund balances at the start of each fiscal year.

C. Fee Allocation.

Fees sufficient to cover the costs of the Authority's air operating permit program shall be assessed such that each source shall pay an amount equal to that source's portion of the total annual emissions (determined from the previous year's emission inventory) of the fee applicable pollutants from all the permit program source's within the Authority's jurisdiction. The fee applicable pollutants shall be as follows:

- 1) Total Suspended Particulate (TSP)
- 2) Sulfur Oxides (SOx)
- 3) Nitrogen Oxides (NOx)
- 4) Volatile Organic Compounds (VOC)
- 5) Hazardous Air Pollutants (HAPs)

The air operating permit fee for an individual source shall be calculated according to the following formula:

$$F = B \times SE/TE,$$

where:

F = Source's annual air operating permit fee;

B = The Authority's budget for the air operating permit program;

SE = The sum of the annual emissions of fee applicable pollutants in tons per year from the source;

TE = The sum of annual emissions of fee applicable pollutants in tons per year from all permit program sources.

D. Public Notice.

The workload analysis budget and fee allocations shall be made available upon request. Any proposed revisions to the annual fee schedule shall be presented to the Board for adoption after public notice has been given.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

DULY ADOPTED THIS 8th day of December, 1993.

SIGNED YAKIMA COUNTY CLEAN AIR AUTHORITY BY:

Pat Berndt (Chairperson)
 Glen Chandler
 Thomas W. Gasseling
 Charles Klarich

Attest: Betty Tabayoyon
 Secretary

**WSR 94-01-087
 PERMANENT RULES
 PARKS AND RECREATION
 COMMISSION**

[Filed December 13, 1993, 2:49 p.m.]

Date of Adoption: December 10, 1993.

Purpose: Amends WAC 352-32-010 Definitions and 352-32-130 Aircraft, to exempt paragliders from the prohibition on aircraft activities in state parks under certain conditions.

Citation of Existing Rules Affected by this Order: Amending WAC 352-32-010 and 352-32-130.

Statutory Authority for Adoption: RCW 43.51.040.

Pursuant to notice filed as WSR 93-21-037 on October 15, 1993.

Changes Other than Editing from Proposed to Adopted Version: Language removed in subsection (3)(e)(iv) and (viii) and added in subsections (2) and (3)(vi), (xi), and (xii) and changed in subsection (3)(f) to clarify the conditions under which paragliding is allowed in state parks.

Effective Date of Rule: Thirty-one days after filing.

December 10, 1993
 Robert C. Petersen
 Chair

AMENDATORY SECTION (Amending WSR 93-08-025, filed 3/30/93, effective 5/1/93)

WAC 352-32-010 Definitions. Whenever used in this chapter the following terms shall be defined as herein indicated:

~~((1) "Commission" shall mean the Washington state parks and recreation commission.~~

~~(2) "Director" shall mean the director of the Washington state parks and recreation commission.~~

~~(3) "Ranger" shall mean a duly appointed Washington state parks ranger who is vested with police powers under RCW 43.51.170, and shall include the park manager in charge of any state park area.~~

~~(4) "Person" shall mean all natural persons, firms, partnerships, corporations, clubs, and all associations or combinations of persons whenever acting for themselves or by an agent, servant, or employee.~~

~~(5) "Recreation vehicle" shall mean a vehicle/trailer unit, van, pickup truck with camper, motor home, converted bus, or any similar type vehicle which contains sleeping and/or housekeeping accommodations.~~

~~(6) "Standard campsite" shall mean a designated camping site which is served by nearby domestic water, sink waste, garbage disposal and flush comfort station. Each campsite includes a camp stove and picnic table.~~

~~(7) "Utility campsite" shall mean a standard campsite with the addition of electricity and one or all of the following utility hookups: Domestic water or sewer.~~

~~(8) "Primitive campsite" shall mean a campsite not provided with flush comfort station nearby and which may not have any of the amenities of a standard campsite.~~

~~(9) "Multiple campsite" shall mean a designated and posted camping facility encompassing two or more individual standard, utility or primitive campsites.~~

~~(10) "Camping" shall mean erecting a tent or shelter or arranging bedding, or both, or parking a recreation vehicle or other vehicle for the purpose of remaining overnight.~~

~~(11) "Group camping areas" are designated areas usually primitive with minimal utilities and site amenities and are for the use of organized groups. Facilities and extent of development vary from park to park.~~

~~(12) "Emergency area" is an area in the park separate from the designated overnight camping area, which may be used for camping between the hours of 9 p.m. and 8 a.m. when no alternative camping facilities are available within reasonable driving distances.~~

~~(13) "State park area" shall mean any area under the ownership, management, or control of the commission, including trust lands which have been withdrawn from sale or lease by order of the commissioner of public lands and the management of which has been transferred to the commission, and specifically including all those areas defined in WAC 352-16-020. State park areas do not include the seashore conservation area as defined in RCW 43.51.655 and as regulated under chapter 352-36 WAC.~~

~~(14) "Environmental learning centers (ELC)" shall mean those designated specialized facilities (formerly called resident group camps) designed to promote outdoor camping experiences and environmental education by groups in a residential setting. A group can be formalized group or an organized collection of families wishing to camp or use the~~

~~ELC. ELCs are located at Camp Wooten, Columbia County; Brooks Memorial State Park, Klickitat County; Sun Lakes State Park, Grant County; Deception Pass State Park, Island and Skagit Counties; Fort Flagler State Park, Jefferson County; Millersylvania State Park, Thurston County; Moran State Park, San Juan County; Fields' Spring State Park, Asotin County; and Sequim Bay State Park, Clallam County.~~

~~(15) "Public assembly" shall mean a meeting, rally, gathering, demonstration, vigil, picketing, speechmaking, march, parade, religious service, or other congregation of persons for the purpose of public expression of views of a political or religious nature for which there is a reasonable expectation that more than one hundred persons will attend based on information provided by the applicant. Public assemblies must be open to all members of the public, and are generally the subject of attendance solicitations circulated prior to the event, such as media advertising, flyers, brochures, word of mouth notification, or other form of prior encouragement to attend.~~

~~Alternatively, the agency director may declare an event to be a public assembly in the following cases: Where evidentiary circumstances and supporting material suggest that more than one hundred persons will attend, even where the applicant does not indicate such an expectation; or where there is reason to expect a need for special preparations by the agency or the applicant, due to the nature or location of the event.~~

~~(16) "Camping unit" shall mean a group of people (one or more persons) that is organized, equipped and capable of sustaining its own camping activity.~~

~~(17) "Residence" shall mean the long term habitation of facilities at a given state park for purposes whose primary character is not recreational. "Residence" is characterized by one or both of the following patterns:~~

~~(a) Camping at a given park for more than twenty days within a thirty day time period May 1 through September 30; or thirty days within a sixty day time period October 1 through April 30. As provided in WAC 352-32-030(7), continuous occupancy of facilities by the same camping unit shall be limited to ten consecutive nights May 1 through September 30 and fifteen consecutive nights October 1 through April 30 in one park, after which the camping unit must vacate the overnight park facilities for three consecutive nights. The time period shall begin on the date for which the first night's fee is paid.~~

~~(b) The designation of the park facility as a permanent or temporary address on official documents or applications submitted to public or private agencies or institutions.~~

~~(18) "Motoreycle" means every motor vehicle having a saddle for the use of the rider and designed to travel on not more than three wheels in contact with the ground, but excluding a farm tractor and a moped.~~

~~(19) "Upland" shall mean all lands lying above mean high water.~~

~~(20) "Special recreation event" shall mean a group recreation activity in a state park sponsored or organized by an individual or organization that requires reserving park areas, planning, facilities, staffing, or other services beyond the level normally provided at the state park to ensure public welfare and safety and facility and/or environmental protection.~~

(21) "Marine trail camping areas" are specially designated group camp areas identified with signs, that are near marine water ways, and that have varying facilities and extent of development.

(22) "Boat launch" shall mean any facility located in a state park area designated for the purpose of placing or retrieving any vehicle-born or trailer-born watercraft into or out of the water.

(23) "Trailer dump station" shall mean any state park sewage disposal facility designated for the disposal of sewage waste from any recreation vehicle, other than as may be provided in a utility campsite.

(24) "Popular destination park" shall mean any state park designated by the director as a popular destination park because, during the year preceding designation, the park had an average overnight occupancy rate of sixty percent or more during the period of May 21 through September 14.

(25) "Day area parking space" shall mean any designated parking space within any state park area designated for daytime vehicle parking.) "Boat launch" shall mean any facility located in a state park area designated for the purpose of placing or retrieving any vehicle-born or trailer-born watercraft into or out of the water.

"Camping" shall mean erecting a tent or shelter or arranging bedding, or both, or parking a recreation vehicle or other vehicle for the purpose of remaining overnight.

"Camping unit" shall mean a group of people (one or more persons) that is organized, equipped and capable of sustaining its own camping activity.

"Commission" shall mean the Washington state parks and recreation commission.

"Day area parking space" shall mean any designated parking space within any state park area designated for daytime vehicle parking.

"Director" shall mean the director of the Washington state parks and recreation commission.

"Emergency area" is an area in the park separate from the designated overnight camping area, which may be used for camping between the hours of 9 p.m. and 8 a.m. when no alternative camping facilities are available within reasonable driving distances.

"Environmental learning centers (ELC)" shall mean those designated specialized facilities (formerly called resident group camps) designed to promote outdoor camping experiences and environmental education by groups in a residential setting. A group can be formalized group or an organized collection of families wishing to camp or use the ELC. ELCs are located at Camp Wooten, Columbia County; Brooks Memorial State Park, Klickitat County; Sun Lakes State Park, Grant County; Deception Pass State Park, Island and Skagit Counties; Fort Flagler State Park, Jefferson County; Millersylvania State Park, Thurston County; Moran State Park, San Juan County; Fields' Spring State Park, Asotin County; and Sequim Bay State Park, Clallam County.

"Group camping areas" are designated areas usually primitive with minimal utilities and site amenities and are for the use of organized groups. Facilities and extent of development vary from park to park.

"Marine trail camping areas" are specially designated group camp areas identified with signs, that are near marine water ways, and that have varying facilities and extent of development.

"Motorcycle" means every motor vehicle having a saddle for the use of the rider and designed to travel on not more than three wheels in contact with the ground, but excluding a farm tractor and a moped.

"Multiple campsite" shall mean a designated and posted camping facility encompassing two or more individual standard, utility or primitive campsites.

"Paraglider" shall mean an unpowered ultralight vehicle capable of flight, consisting of a fabric, rectangular or elliptical canopy or wing connected to the pilot by suspension lines and straps, made entirely of nonrigid materials except for the pilot's harness and fasteners. The term "paraglider" shall not include hanggliders or parachutes.

"Person" shall mean all natural persons, firms, partnerships, corporations, clubs, and all associations or combinations of persons whenever acting for themselves or by an agent, servant, or employee.

"Popular destination park" shall mean any state park designated by the director as a popular destination park because, during the year preceding designation, the park had an average overnight occupancy rate of sixty percent or more during the period of May 21 through September 14.

"Primitive campsite" shall mean a campsite not provided with flush comfort station nearby and which may not have any of the amenities of a standard campsite.

"Public assembly" shall mean a meeting, rally, gathering, demonstration, vigil, picketing, speechmaking, march, parade, religious service, or other congregation of persons for the purpose of public expression of views of a political or religious nature for which there is a reasonable expectation that more than one hundred persons will attend based on information provided by the applicant. Public assemblies must be open to all members of the public, and are generally the subject of attendance solicitations circulated prior to the event, such as media advertising, flyers, brochures, word-of-mouth notification, or other form of prior encouragement to attend.

Alternatively, the agency director may declare an event to be a public assembly in the following cases: Where evidentiary circumstances and supporting material suggest that more than one hundred persons will attend, even where the applicant does not indicate such an expectation; or where there is reason to expect a need for special preparations by the agency or the applicant, due to the nature or location of the event.

"Ranger" shall mean a duly appointed Washington state parks ranger who is vested with police powers under RCW 43.51.170, and shall include the park manager in charge of any state park area.

"Recreation vehicle" shall mean a vehicle/trailer unit, van, pickup truck with camper, motor home, converted bus, or any similar type vehicle which contains sleeping and/or housekeeping accommodations.

"Residence" shall mean the long-term habitation of facilities at a given state park for purposes whose primary character is not recreational. "Residence" is characterized by one or both of the following patterns:

Camping at a given park for more than twenty days within a thirty-day time period May 1 through September 30; or thirty days within a sixty-day time period October 1 through April 30. As provided in WAC 352-32-030(7), continuous occupancy of facilities by the same camping unit

shall be limited to ten consecutive nights May 1 through September 30 and fifteen consecutive nights October 1 through April 30 in one park, after which the camping unit must vacate the overnight park facilities for three consecutive nights. The time period shall begin on the date for which the first night's fee is paid.

The designation of the park facility as a permanent or temporary address on official documents or applications submitted to public or private agencies or institutions.

"Special recreation event" shall mean a group recreation activity in a state park sponsored or organized by an individual or organization that requires reserving park areas, planning, facilities, staffing, or other services beyond the level normally provided at the state park to ensure public welfare and safety and facility and/or environmental protection.

"Standard campsite" shall mean a designated camping site which is served by nearby domestic water, sink waste, garbage disposal and flush comfort station. Each campsite includes a camp stove and picnic table.

"State park area" shall mean any area under the ownership, management, or control of the commission, including trust lands which have been withdrawn from sale or lease by order of the commissioner of public lands and the management of which has been transferred to the commission, and specifically including all those areas defined in WAC 352-16-020. State park areas do not include the seashore conservation area as defined in RCW 43.51.655 and as regulated under chapter 352-36 WAC.

"Trailer dump station" shall mean any state park sewage disposal facility designated for the disposal of sewage waste from any recreation vehicle, other than as may be provided in a utility campsite.

"Upland" shall mean all lands lying above mean high water.

"Utility campsite" shall mean a standard campsite with the addition of electricity and one or all of the following utility hookups: Domestic water or sewer.

AMENDATORY SECTION (Amending Order 102, filed 11/24/87)

WAC 352-32-130 Aircraft. (1) No aircraft shall land on or take off from any body of water or land area in a state park area not specifically designated for landing aircraft. This provision does not apply to official aircraft used in the performance of search and rescue missions, medical emergencies, law enforcement activities, or firefighting activities. It also does not apply in cases where the director specifically authorizes such landings or take offs, in writing, associated with the operational, or administrative needs of the agency or state.

(2) Individuals who have complied with the registration process provided or who have obtained a special recreation event permit pursuant to WAC 352-32-047 may launch and land paragliders in state park areas specifically designated by the director as available for paragliding. Prior to any such designation, the director or designee shall advertise and conduct a public meeting in the region where the park is located. The director shall consider the potential impacts of paragliding in the proposed area, including but not limited to the following factors: The degree of conflict paragliding

may have with other park uses, public safety issues, and any potential damage to park resources/facilities. Any park designated for paragliding shall be conspicuously posted as such by the director.

(3) Individuals paragliding in state parks must:

(a) Comply with the registration process provided for such purposes;

(b) Observe all applicable laws and regulations;

(c) Never destroy or disturb park facilities, natural features, or historical or archeological resources;

(d) Conduct themselves with thoughtfulness, courtesy and consideration for others, and not interfere with other recreational activities;

(e) Conduct themselves in compliance with the following basic safety regulations:

(i) Comply with specific site operational rules that are posted;

(ii) Fly in a manner consistent with the pilot rating held;

(iii) Preplanned landings should be made in areas no smaller than forty feet wide by one hundred feet long;

(iv) Make preflight checks of weather, equipment and site conditions;

(v) Observe all published traffic and right of way flight guidelines, including yielding right of way to all aircraft;

(vi) Wear protective clothing, headgear, Coast Guard approved flotation gear, reserve parachute, supplemental oxygen and communication equipment as appropriate for conditions;

(vii) Fly in a manner that does not create a hazard for other persons or property;

(viii) Fly only during daylight hours, or hours otherwise specified by posting at the site;

(ix) Do not fly over congested areas of parks or open air assembly of persons;

(x) Fly only in designated areas of parks;

(xi) Fly with visual reference to the ground surface at all times.

(xii) Do not tether paraglider to the ground or other stable nonmovable object.

(f) Not fly while under the influence of alcohol or drugs.

WSR 94-01-094

PERMANENT RULES

DEPARTMENT OF

SOCIAL AND HEALTH SERVICES

(Public Assistance)

[Order 3685—Filed December 14, 1993, 2:21 p.m.]

Date of Adoption: December 14, 1993.

Purpose: Sets up a supplemental pharmaceutical manufacturers' state discount in order for their drug to be prescribed without special authorization by medical assistance administration. Deletes the requirement that the department not require prior authorization for new drugs for a six-month period, new WAC 388-91-007 Drugs—Drug discount agreement.

Citation of Existing Rules Affected by this Order: Amending WAC 388-91-010 Drugs—Not requiring prior authorization and 388-91-020 Drugs—Requiring authorization.

Statutory Authority for Adoption: RCW 74.08.090.

Pursuant to notice filed as WSR 94-01-046 on December 7, 1993.

Changes Other than Editing from Proposed to Adopted Version: WAC 388-91-020(1) third sentence, clarifies that if the only reason a drug is listed as needing prior authorization is that the drug manufacturer/labeler has failed to sign a Washington state drug discount agreement, then authorization is needed, but the authorization does not need to be prior to filling the prescription; and WAC 388-91-020 (2)(c), added the word "when."

Effective Date of Rule: Thirty-one days after filing,

December 14, 1993

Dewey Brock, Chief

Office of Vendor Services

NEW SECTION

WAC 388-91-007 Drugs—Drug discount agreement.

(1) A supplemental drug discount agreement between each pharmaceutical manufacturer and the department is required. This agreement is to provide a supplemental drug discount in addition to the amount provided to the Medicaid program under the terms of their agreement with the federal Department of Health and Human Services.

(2) The supplemental drug discount shall be a percentage applied to the quarterly basic Health Care Financing Administration (HCFA) requested rebated amount. The discount will be assessed when the HCFA rebate amount, per labeler code, exceeds one thousand dollars in a reporting quarter.

AMENDATORY SECTION (Amending Order 3286, filed 11/19/91, effective 12/20/91)

WAC 388-91-010 Drugs—Not requiring prior authorization. (1) The department shall publish a list of all drugs not requiring prior approval as described under subsections (3)(a) through (3)(e) and (4) of this section. The medical assistance administration may make changes to this list ~~((based on the recommendations of the drug review advisory committee))~~ providing that action is in compliance with regulations governing the drug program and with acceptable management policies.

(2) The list described under subsection (1) of this section may include drugs which require prior approval only because the manufacturer has not signed a supplemental drug discount agreement as specified under subsection (3)(f) of this section. The department shall publish a list of manufacturers who have signed a supplemental drug discount agreement and whose products may not require prior approval.

(3) The department's decision not to require authorization for drug preparations ~~((is))~~ shall be based on ~~((these))~~ the following criteria:

(a) The drug ~~((shall be))~~ is established as a part of necessary and essential care for the condition for which ~~((it))~~ the drug is used;

(b) The drug ~~((shall be))~~ is in general use by physicians practicing in Washington;

(c) The drug ~~((shall be))~~ is of moderate cost. The department shall use generic forms when the drug is listed

under the department or federal maximum allowable cost (MAC) programs. When two preparations of equal effectiveness but disparate costs are presented, the department shall select the less expensive drug;

(d) The food and drug administration shall not have classified the drug as "less than effective";

(e) The drug ~~((shall))~~ is not ~~((be))~~ experimental~~((—(3)))~~; and

(f) That the drug manufacturer/labeler sign a Washington state drug discount agreement.

(4) The department shall use the following process to determine when a drug preparation requires prior authorization:

(a) Review objective, scientific information and utilization data for appropriateness according to the criteria in subsection ~~((2))~~ (3) of this section; or

(b) Provide for the potential appointment of an advisory committee by the secretary in accordance with RCW 43.20A.360 to review and advise the medical assistance administration whether the drug preparation requires prior authorization; and

(c) Make appropriate changes in the ~~((need to not))~~ requirement of prior ((authorize)) authorization as to a drug preparation when consistent with subsection ((2)) (3) of this section, and may accept recommendations of the advisory committee providing that action is in compliance with regulations governing the program and with acceptable management policies.

~~((4))~~ (5) Until January 1, 1994 the department shall ((comply with federal Medicaid laws to)) not require prior authorization for any new biological or drug that the federal Food and Drug Administration approves ((for a period of six months after such approval)) between July 1, 1993 through December 31, 1993.

AMENDATORY SECTION (Amending Order 3286, filed 11/19/91, effective 12/20/91)

WAC 388-91-020 Drugs—Requiring authorization.

(1) The pharmacist shall make a request to the department for drugs requiring prior authorization before dispensing the drug. The request shall be supported by the medical diagnosis and include proper justification for the drug. For drugs requiring prior authorization solely because the drug manufacturer/labeler has failed to sign a Washington state drug discount agreement, the authorization may be obtained subsequent to filling the prescription.

(2) ~~((Payment))~~ The department may ((be made)) pay for drugs requiring prior authorization which are prescribed without prior authorization only:

(a) In an acute emergency ((and));

(b) If the physician can substantiate that a drug is mandatory ((-)) and

(c) ~~((The))~~ When the department ((shall receive)) receives justification within seventy-two hours for consideration.

WSR 94-01-095
PERMANENT RULES
UTILITIES AND TRANSPORTATION
COMMISSION

[Order R-404, Docket No. UW-930955—Filed December 14, 1993, 4:45 p.m.]

In the matter of amending WAC 480-110-051(6) relating to interest on water company customer deposits.

The Washington Utilities and Transportation Commission takes this action under Notice No. WSR 93-21-045, filed with the code reviser on October 18, 1993. The commission brings this proceeding pursuant to RCW 80.01.040.

This proceeding complies with the Open Public Meetings Act (chapter 42.30 RCW), the Administrative Procedure Act (chapter 34.05 RCW), the State Register Act (chapter 34.08 RCW), the State Environmental Policy Act of 1971 (chapter 34.21C RCW), and the Regulatory Fairness Act (chapter 19.85 RCW).

The commission scheduled this matter for oral comment and adoption under Notice No. WSR 93-21-045, for 9:00 a.m., Wednesday, December 8, 1993, in the Commission's Hearing Room, Second Floor, Chandler Plaza Building, 1300 South Evergreen Park Drive S.W., Olympia, WA. The notice provided interested persons the opportunity to submit written comments to the commission until November 17, 1993.

Written comments were presented by the commission staff.

No other party submitted written comments.

The rule change proposal was considered for adoption at the commission's regularly scheduled open public meeting on December 8, 1993, before Chairman Sharon L. Nelson, Commissioner Richard D. Casad, and Commissioner Richard Hemstad. Oral comments were made by Diana Otto on behalf of the commission staff. After considering the written and oral comments, the commission adopted the rule as noticed.

In reviewing the entire record, the commission determines that WAC 480-110-051(6) should be amended to read as set forth in Appendix A, as a rule of the Washington Utilities and Transportation Commission, to take effect pursuant to RCW 34.05.380.

ORDER

THE COMMISSION ORDERS That WAC 480-110-051(6) is amended to read as set forth in Appendix A, as a rule of the Washington Utilities and Transportation Commission, to take effect pursuant to RCW 34.05.380; and

THE COMMISSION FURTHER ORDERS That this order and the rule shown below, after being recorded in the register of the Washington Utilities and Transportation Commission, shall be forwarded to the code reviser for filing pursuant to chapter 34.05 RCW and chapter 1-21 WAC.

THE COMMISSION Adopts the commission staff memoranda, presented both at the time the commission considered noticing and considered adopting this rule, as its brief explanatory statement of the reasons for adoption, as provided in RCW 34.05.355.

DATED at Olympia, Washington, this 8th day of December 1993.

Washington Utilities and Transportation Commission
 Sharon L. Nelson, Chairman
 Richard Hemstad, Commissioner

APPENDIX A

AMENDATORY SECTION (Amending Order R-85, filed 6/30/76)

WAC 480-110-051 Deposits. (1) Establishment of credit. An applicant for residential service may establish credit by demonstrating to the utility any one of the following factors:

(a) Prior service with the utility in question during the next previous 12 months for at least six consecutive months during which service was rendered and was not disconnected for failure to pay, and no more than one delinquency notice was served upon the customer.

(b) Prior service with a utility of the same type as that of which service is sought with a satisfactory payment record as demonstrated in (a) above, provided that the reference may be quickly and easily checked, and the necessary information is provided.

(c) Full-time consecutive employment during the entire 12 months next previous to the application for service, with no more than two employers, and the applicant is currently employed or has a regular source of income.

(d) Ownership of a significant legal interest in the premises to be served.

(e) Furnishing of a satisfactory guarantor to secure payment of bills for service requested in a specified amount not to exceed the amount of cash deposit which may be required.

(f) Demonstration that applicant is a satisfactory risk by appropriate means including, but not limited to, the production in person at a listed business office of two major credit cards, or other credit references, which may be quickly and easily checked by the utility.

(2) Establishment of credit—Nonresidential. An applicant for nonresidential service may be required to demonstrate that it is a satisfactory credit risk by reasonable means appropriate under the circumstances.

(3) Deposit requirements. A deposit may be required under the following circumstances:

(a) Where the applicant has failed to establish a satisfactory credit history as outlined above.

(b) In any event, a deposit may be required when, within the 12 months prior to the application, the applicant's service of a similar type has been disconnected for failure to pay amounts owing, when due; where there is an unpaid, overdue balance owing for similar service from the utility to which application is being made or from any other water company; or where two or more delinquency notices have been served upon the applicant by any other water company during the 12 months previous to the application for service.

(c) Initiation or continuation of service to a residence where a prior customer still resides and where any balance for such service to that prior customer is past due or owing.

(4) Amount of deposit. In instances where a deposit may be required by the utility, the deposit shall not exceed two-twelfths of estimated annual billings for utilities billing monthly, three-twelfths of estimated annual billings for

utilities billing bimonthly, and four-twelfths of estimated annual billings for utilities billing trimonthly.

(5) Transfer of deposit. Where a customer of whom a deposit is required transfers his service to a new location within the same utility's service area, the deposit, less any outstanding balance, shall be transferable and applicable to the new service location.

(6) Interest on deposits. Interest on deposits held shall be accrued at the rate (~~established according to law as interest upon judgments in superior courts of the state of Washington as of January 1 of each~~) calculated as a simple average of the effective interest rate for new issues of one year treasury bills, computed from December 1 of each year, continuing through November 30 of the following year. Deposits shall earn that calculated interest rate during January 1 through December 31 of the subsequent year. Interest shall be computed from the time of deposit to the time of (~~termination of service~~) refund or total application of the deposit and shall be compounded annually.

(7) Extended payment of deposits. Where a customer or applicant for service of whom a deposit is required is unable to pay the entire amount of the deposit in advance of connection or continuation of service, the customer or applicant shall be allowed to pay 50 percent of the deposit amount prior to service, with the remaining amount payable in equal amounts on the utility's ordinary billing cycle during the first two months of service. A customer or applicant who is unable to meet this deposit requirement shall have the opportunity to receive service under subsection (8), alternative to deposit, next below.

(8) Alternative to deposit. A customer or applicant for service of whom a deposit is required, but who is unable to make a deposit, shall be allowed, as an alternative to the making of a deposit, to prepay any installation charges and reasonably estimated regular service charges at periods corresponding to the utility's regular billing period or budget billings for the length of time during which a deposit would ordinarily have been required. The customer shall then be billed in a normal fashion.

(9) When payment is made by cash, a receipt shall be furnished to each applicant or customer for the amount deposited.

(10) Refund of deposits. Deposits plus accrued interest shall be refunded under the following circumstances and in the following form:

(a) Satisfactory payment. Where the customer has for 12 consecutive months paid for service when due in a prompt and satisfactory manner as evidenced by the following:

(i) The utility has not initiated disconnection proceedings against the customer.

(ii) No more than two notices of delinquency have been made to the customer by the utility.

(b) Termination of service. Upon termination of service, the utility shall return to the customer the amount then on deposit plus accrued interest, less any amounts due the utility by the customer for service rendered.

(c) Refunds - how made. Any deposit plus accrued interest, shall be refunded to the customer either in the form of a check issued and mailed to the customer no longer than 15 days following completion of 12 months' satisfactory payment as described above, or applied to the customer's bill

for service in the 13th and, if appropriate, subsequent months, in accordance with the preference as to form of refund indicated by the customer at the time of deposit or as thereafter modified.

(11) Nothing in this rule shall prevent the requirement of a larger deposit or a new deposit when conditions warrant. Should a larger or new deposit be required, the reasons therefor shall be specified in writing to the customer. Any requirement for a new or larger deposit shall be in conformity with the standards set forth in this rule.

WSR 94-01-100
PERMANENT RULES
DEPARTMENT OF
LABOR AND INDUSTRIES
[Filed December 16, 1993, 10:30 a.m.]

Date of Adoption: December 16, 1993.

Purpose: To increase the fee for filing the statement of intent to pay prevailing wage and affidavit of wages paid forms and to expand the coverage of prevailing wage to reflect statutory change.

Citation of Existing Rules Affected by this Order: Amending WAC 296-127-010, 296-127-040, and 296-127-045.

Statutory Authority for Adoption: RCW 39.12.070.

Pursuant to notice filed as WSR 93-20-131 on October 6, 1993.

Effective Date of Rule: Thirty-one days after filing.
December 16, 1993
Mark O. Brown
Director

AMENDATORY SECTION (Amending WSR 92-01-104, filed 12/18/91, effective 1/31/92)

WAC 296-127-010 Definitions for chapter 296-127 WAC. (1) "Department" means the department of labor and industries.

(2) "Director" means the director of the department or his or her duly authorized deputy or representative.

(3) "Industrial statistician" means the industrial statistician of the department's employment standards, apprenticeship, and crime victims (ESAC) division.

(4) "Assistant director" means the assistant director of the employment standards, apprenticeship, and crime victims (ESAC) division or his or her duly authorized deputy or representative.

(5) "Contractor" means:

(a) The prime contractor, and each and every subcontractor, required to be registered under chapter 18.27 RCW and/or licensed under chapter 19.28 RCW, that performs any work on a public works project site, and/or is required to pay industrial insurance premiums as a construction company.

(b) Employers engaged in shipbuilding and ship repair, building service maintenance, and any fabricator or manufacturer that produces nonstandard items specifically for a public works project.

(c) Employers that contract with contractors or subcontractors for the purpose of the production and/or delivery of materials pursuant to the terms of WAC 296-127-018.

(6) The term municipality shall include every city, county, town, district, political subdivision, or other public agency thereof which is authorized by law to require the execution of public work, except drainage districts, diking districts, diking and drainage improvement districts, drainage improvement districts, diking improvement districts, consolidated diking and drainage improvement districts, consolidated drainage improvement districts, consolidated diking improvement districts, irrigation districts, or any such other districts as shall from time to time be authorized by law for the reclamation or development of waste or undeveloped lands.

(7)(a) The term "public work" shall include:

(i) All work, construction, alteration, enlargement, improvement, repair, and/or demolition that is executed by contract, purchase order, or any other legal agreement and that is executed at the cost of the state of Washington or of any municipality. The source of the funding shall not determine the applicability of the statute, and may include, but is not limited to, such sources as those payments made through contracts with insurance companies on behalf of the insured state or municipality;

(ii) All work, construction, alteration, enlargement, improvement, repair, and/or demolition which, by law, constitutes a lien or charge on any property of the state or of a municipality;

(iii) ~~((New))~~ All work, construction, alteration, repair, or improvement, other than ordinary maintenance that ((are caused by)) the state ((agencies)) or a municipality causes to be ((built)) performed by a private party through a contract to rent, lease, or purchase at least ((eighty)) fifty percent of ((such facility for occupation by)) the project by one or more state agencies or municipalities, pursuant to RCW ((43.82.015)) 39.04.260;

(iv) Maintenance, except ordinary maintenance as defined by (b)(iii) of this subsection, when performed by contract. Maintenance is defined as keeping existing facilities in good usable, operational condition;

(v) Janitorial and building service maintenance as defined by WAC 296-127-023, when performed by contract, on public buildings and/or assets; and

(vi) The fabrication and/or manufacture of nonstandard items produced by contract specifically for a public works project as defined by (a)(i) through (v) of this subsection.

(b) The term "public work" shall not include:

(i) Work, construction, alteration, enlargement, improvement, repair, demolition, and/or maintenance for which no wage or salary compensation is paid, consistent with the requirements of RCW 35.21.278;

(ii) The construction, alteration, repair, or improvement of any municipal street railway system;

(iii) Ordinary maintenance which is defined as work not performed by contract and that is performed on a regularly scheduled basis (e.g., daily, weekly, monthly, seasonally, semiannually, but not less frequently than once per year), to service, check, or replace items that are not broken; or work not performed by contract that is not regularly scheduled but is required to maintain the asset so that repair does not become necessary.

(8) "Contract" means a contract, purchase order, or any other legal agreement in writing for public work to be performed for a fixed or determinable amount, which is duly awarded after advertisement and competitive bid. A contract that is awarded from a small works roster, or under the emergency provisions of state law, need not be advertised.

(9) "Residential construction" means construction, alteration, repair, improvement, or maintenance of single family dwellings, duplexes, apartments, condominiums, and other residential structures not to exceed four stories in height, including basement, when used solely as permanent residences. It does not include the utilities construction (water and sewer lines), or work on streets, or work on other structures (e.g., for recreation and business.)

AMENDATORY SECTION (Amending WSR 90-24-053, filed 12/3/90, effective 1/3/91)

WAC 296-127-040 Statement of intent to pay prevailing wages. (1) All statements of intent to pay prevailing wages submitted to the industrial statistician of the department shall be accompanied by a fee of ~~((twelve))~~ twenty-five dollars ((and fifty cents)) for each statement. Fees shall be made payable to the department of labor and industries.

(2) Any agency, division, or department of the state of Washington which through agreement with the department certifies statements of intent for its own contracts shall provide to the industrial statistician each month the number of statements of intent certified and quarterly shall send a fee of ~~((ten))~~ twenty dollars for each statement of intent to pay prevailing wages it has certified. This fee shall be sent to the industrial statistician and be made payable to the department of labor and industries.

AMENDATORY SECTION (Amending WSR 90-24-053, filed 12/3/90, effective 1/3/91)

WAC 296-127-045 Affidavit of wages paid. (1) All affidavits of wages paid submitted to the industrial statistician of the department shall be accompanied by a fee of ~~((twelve))~~ twenty-five dollars ~~((and fifty cents))~~ for each affidavit of wages paid. All fees shall be made payable to the department of labor and industries.

(2) Any agency, division, or department of the state of Washington which through agreement with the department certifies affidavits of wages paid for its own contracts shall provide to the industrial statistician each month the number of affidavit of wages paid it has certified and quarterly shall send a fee of ~~((ten))~~ twenty dollars for each affidavit of wages paid it has certified. This fee shall be sent to the industrial statistician and be made payable to the department of labor and industries.

WSR 94-01-101
PERMANENT RULES
STATE BOARD OF EDUCATION
[Filed December 16, 1993, 10:50 a.m.]

Date of Adoption: November 19, 1993.

Purpose: Changes for editorial clarification and codifying administrative policies and new sections to implement new provisions of certification requirements.

Citation of Existing Rules Affected by this Order: Amending WAC 180-79-065, 180-79-115, 180-79-120, 180-79-125, 180-79-245, and 180-79-303.

Statutory Authority for Adoption: RCW 28A.410.010.

Pursuant to notice filed as WSR 93-20-095 on October 5, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 16, 1993

Dr. Monica Schmidt

Executive Director/Secretary

AMENDATORY SECTION (Amending WSR 92-20-083, filed 10/6/92, effective 11/6/92)

WAC 180-79-065 Initial and continuing certificates—Applicable conditions. The following shall apply to initial and continuing certificates issued pursuant to this chapter:

(1) Initial certificate.

An initial educational staff associate or administrator certificate issued prior to August 31, 1988, or an initial teacher certificate may be renewed for an additional three-year period on application and verification that the individual has completed all course work requirements from a regionally accredited institution of higher education for continuing certification or has completed at least fifteen quarter hours (ten semester hours) of course work from a regionally accredited institution of higher education since the certificate was issued or renewed.

(2) Continuing certificate.

(a) The continuing certificates of holders who were eligible for such certificates prior to August 31, 1987 and who applied for such certificates prior to July 1, 1988 or who would have been eligible for such certificates prior to August 31, 1987, but for one of the three-year experience requirement and who complete such requirement and apply for such certificate prior to August 31, 1988, will be valid for life. Holders of valid continuing certificates affected by this subsection shall be entitled to have such certificate reissued and subject to the terms and conditions applicable to certification at the time of reissuance including the continuing education requirements of chapter 180-85 WAC.

(b) All continuing certificates not affected by the exception stated in (a) of this subsection shall lapse if the holder does not complete the continuing education requirement specified in chapter 180-85 WAC. To reinstate such a lapsed continuing certificate the individual must complete the requirements for reinstatement stated within chapter 180-85 WAC.

AMENDATORY SECTION (Amending WSR 92-20-083, filed 10/6/92, effective 11/6/92)

WAC 180-79-115 Academic requirements for certification—Teachers. Candidates for teachers' certificates shall complete the following requirements in addition to those set forth in WAC 180-75-080 and 180-75-085.

(1) Initial.

(a) Candidates for the initial certificate who apply for such certificate on or before August 31, 1992, shall hold a

baccalaureate degree from a regionally accredited college or university and shall have completed the degree major in an academic field or in the teaching specialization of early childhood, elementary, reading, or special education.

(b) Candidates for the initial certificate who apply for such certificate after August 31, 1992, shall hold an approved baccalaureate degree from a regionally accredited college or university: *Provided*, That if the approved baccalaureate degree is in early childhood education, elementary education, or special education, the candidate also must have at least thirty quarter hours (twenty semester hours) in one of the academic fields listed in WAC 180-79-080 (3)(a) through (e) and (4).

(2) Continuing.

(a) Candidates who apply for a continuing certificate shall have at least forty-five quarter hours (thirty semester hours) of upper division and/or graduate work completed from a regionally accredited institution of higher education subsequent to the conferral of the baccalaureate degree: *Provided*, That if the individual is pursuing study in a new subject matter area or specialization, lower division courses in that subject area or specialization shall be accepted toward continuing certification upon completion of the requirements for an endorsement in that subject area or specialization.

(b) Candidates for a continuing certificate shall have been granted at least two subject area endorsements.

(c) Candidates who apply for a continuing certificate after August 31, 1992, who have not successfully completed course work or an in-service program including a minimum of ten clock hours of instruction on issues of abuse, must complete such course work or in-service program as a condition for the issuance of a continuing certificate. The content of the course work or in-service program shall discuss the identification of physical, emotional, sexual, and substance abuse, information on the impact of abuse on the behavior and learning abilities of students, discussion of the responsibilities of a teacher to report abuse or provide assistance to students who are the victims of abuse, and methods for teaching students about abuse of all types and their prevention.

AMENDATORY SECTION (Amending WSR 92-04-044, filed 1/31/92, effective 3/2/92)

WAC 180-79-120 Academic requirements for certification—Administrators. Candidates for the respective administrative certificate shall complete the following requirements in addition to those set forth in WAC 180-75-085 and 180-79-124.

(1) Superintendent.

(a) Initial.

(i) The candidate who applies for an initial certificate on or before August 31, 1992, shall hold a master's degree and complete at least fifteen quarter hours (ten semester hours) of graduate study beyond the master's degree in education-related course work and shall hold or be eligible to hold a valid initial or continuing teacher or ESA certificate at the time he or she applies for the initial superintendent's certificate.

(ii) The candidate who applies for an initial certificate after August 31, 1992, shall hold an approved masters degree and have completed subsequent to the baccalaureate degree

at least forty-five quarter hours (thirty semester hours) of graduate level course work in education.

(iii) The candidate must meet requirements for a superintendent's certificate pursuant to WAC 180-79-049.

(b) Continuing.

(i) The candidate who applies for a continuing certificate on or before August 31, 1992, shall have completed at least thirty quarter hours (twenty semester hours) of graduate work beyond the master's degree.

(ii) The candidate who applies after August 31, 1992, shall hold an approved masters degree and have completed subsequent to the baccalaureate degree at least sixty quarter hours (forty semester hours) of graduate level course work in education or shall hold a doctorate in education.

(iii) The candidate must meet requirements for a superintendent's certificate pursuant to WAC 180-79-049.

(2) Principal.

(a) Initial.

(i) The candidate who applies on or before August 31, 1992, shall hold or have held a Washington initial, continuing or comparable teaching certificate from another state at the time he or she applies for the initial principal's certificate and shall have completed an approved program for the preparation of principals.

(ii) The candidate who applies after August 31, 1992, shall hold a masters degree and have completed an approved program for the preparation of principals.

(b) Continuing.

(i) The candidate who applies on or before August 31, 1992, shall hold a master's degree.

(ii) The candidate who applies after August 31, 1992, shall hold an approved masters degree and completed subsequent to the baccalaureate degree at least forty-five hours (thirty semester hours) of graduate level course work in education or shall hold a doctorate in education.

(iii) The candidate must meet requirements for a principal's certificate pursuant to WAC 180-79-049.

(3) Program administrator.

(a) Initial.

(i) The candidate who applies on or before August 31, 1992, shall hold a valid initial or continuing teacher or educational staff associate certificate at the time he or she applies for the program administrator's initial certificate and shall hold a master's degree.

(ii) The candidate who applies after August 31, 1992, shall hold an approved masters degree, a masters degree required for an educational staff associate certificate, a masters degree in school nursing, occupational therapy or physical therapy, or a masters degree in public, education, or business administration and have completed subsequent to the baccalaureate degree at least twenty-four quarter hours (sixteen semester hours) of graduate level course work in education.

(b) Continuing.

(i) The candidate who applies on or before August 31, 1992, shall have completed at least fifteen quarter hours (ten semester hours) of graduate work subsequent to the master's degree relevant to educational administration or his or her subject matter field(s) or specialization(s).

(ii) The candidate who applies after August 31, 1992, shall hold an approved masters degree, a masters degree required for an educational staff associate certificate, a

masters degree in school nursing, occupational therapy, physical therapy, or a masters degree in public, education, or business administration and have completed subsequent to the baccalaureate degree at least thirty quarter hours (twenty semester hours) of graduate level course work in education or shall hold a doctorate in education.

NEW SECTION

WAC 180-79-124 Child abuse course work requirement for continuing certification—Administrators.

Candidates who apply for a continuing administrator certificate after August 31, 1994, must have successfully completed course work or an in-service program including a minimum of ten clock hours of instruction on issues of abuse as a condition for the issuance of a continuing certificate. The content of the course work or in-service program shall discuss the identification of physical, emotional, sexual, and substance abuse, information on the impact of abuse on the behavior and learning abilities of students, discussion of the responsibilities of a teacher to report abuse or provide assistance to students who are the victims of abuse, and methods for teaching students about abuse of all types and their prevention.

AMENDATORY SECTION (Amending Order 27-88, filed 12/14/88)

WAC 180-79-125 Academic requirements for certification—Educational staff associate (ESA).

Candidates for ESA certification shall complete the following requirements in addition to those set forth in WAC 180-75-085 and 180-79-126: *Provided*, That it shall not be necessary for any candidate who holds a master's or doctorate degree to obtain the specified master's degree if the candidate provides satisfactory evidence to the superintendent of public instruction that he or she has completed all course work requirements relevant to the required masters degree and has satisfactorily completed a comprehensive written examination required in such masters degree program: *Provided*, That if any candidate has been awarded a masters degree without a comprehensive written examination, the candidate, as a condition for certification, shall arrange to take such an examination with any accredited college or university and provide the superintendent of public instruction with an affidavit from the chair of the department of such academic field that he or she has successfully completed the above noted comprehensive examination.

(1) Communication disorders specialist.

(a) Initial. The candidate shall have completed all requirements for the master's degree (except special projects or thesis) with a major in speech pathology and/or audiology.

(b) Continuing. The candidate shall hold a master's degree with a major in speech pathology and/or audiology.

(2) School counselor.

(a) Initial. The candidate shall have completed all requirements for the master's degree (except special projects or thesis) with a major in counseling.

(b) Continuing. The candidate shall hold a master's degree with a major in counseling.

(3) School occupational therapist.

(a) Initial.

(i) The candidate shall have completed an approved or accredited baccalaureate degree program in occupational therapy.

(ii) The candidate shall hold a valid license as an occupational therapist in Washington state.

(b) Continuing. The candidate shall have completed the requirements for an initial endorsement as a school occupational therapist and have completed at least fifteen quarter hours (ten semester hours) of course work beyond the baccalaureate degree in occupational therapy, other health sciences, or education.

(4) School physical therapist.

(a) The candidate shall hold a baccalaureate degree in physical therapy from a college or university having an approved or accredited school of physical therapy or the candidate shall hold a baccalaureate degree and a certificate in physical therapy from an accredited school of physical therapy.

(i) The candidate shall hold a valid license as a physical therapist in Washington state.

(b) Continuing. The candidate shall have completed the requirements for an initial endorsement as a school physical therapist and have completed at least fifteen quarter hours (ten semester hours) of course work beyond the baccalaureate degree in physical therapy, other health sciences, or education.

(5) School psychologist.

(a) Initial.

The candidate shall have completed all requirements for the master's degree (except special projects or thesis) with a major or specialization in school psychology.

(b) Continuing. The candidate shall hold a master's degree with a major or specialization in school psychology.

(6) Reading resource specialist.

(a) Initial.

(i) The candidate shall have completed all requirements for the master's degree (except special projects or thesis) with a major or specialization in reading.

(ii) The candidate shall hold or have held a teaching certificate.

(b) Continuing. The candidate shall have completed the requirements for an initial certificate as a reading resource specialist and shall hold a master's degree with a major or specialization in reading.

(7) School nurse.

(a) Initial.

(i) The candidate shall hold a valid license as a registered nurse (RN) in Washington state.

(ii) The candidate shall hold a baccalaureate degree in nursing and have completed at least fifteen quarter hours (ten semester hours) of post baccalaureate upper division or graduate work in education, nursing, or other health sciences.

(b) Continuing. The candidate shall have completed the requirements for an initial endorsement as a school nurse and have completed at least an additional thirty quarter hours (twenty semester hours) of graduate work in education, nursing or other health sciences.

(8) School social worker.

(a) Initial.

The candidate shall have completed all requirements for a master's degree in social work except special projects or thesis.

(b) Continuing. The candidate shall hold a master's degree in social work.

NEW SECTION

WAC 180-79-126 Child abuse course work requirement for continuing certification—Educational staff associate. Candidates who apply for a continuing educational staff associate certificate after August 31, 1994, must have successfully completed course work or an in-service program including a minimum of ten clock hours of instruction on issues of abuse as a condition for the issuance of a continuing certificate. The content of the course work or in-service program shall discuss the identification of physical, emotional, sexual, and substance abuse, information on the impact of abuse on the behavior and learning abilities of students, discussion of the responsibilities of a teacher to report abuse or provide assistance to students who are the victims of abuse, and methods for teaching students about abuse of all types and their prevention.

AMENDATORY SECTION (Amending WSR 90-12-075, filed 6/1/90, effective 7/2/90)

WAC 180-79-245 Out-of-state candidates. (~~Out-of-state candidates for certification shall not be required to demonstrate passage of any applicable admission-to-practice or other applicable examination until making application for a continuing certificate.~~) Candidates for certification from other states shall be eligible for Washington certificates as follows:

(1) Initial certificate. The initial certificate shall be issued by the superintendent of public instruction to any candidate who meets one of the following:

(a) Qualifies under provisions of the interstate compact.

(b) Holds the appropriate degree and, if applicable, credit hours and/or licensing as set forth in this chapter and has completed a state approved preparation program at a regionally accredited college or university in the professional field for which the certificate is to be issued and such additional professional fields as required by WAC 180-79-049.

(c) Holds an appropriate degree from a regionally accredited college or university and also holds or has held ~~(an) an appropriate certificate ((#)) issued by another state and has practiced at the P-12 level in that respective role ((under the appropriate certificate))~~ outside the state of Washington for three years.

(d) Holds an appropriate degree from a regionally accredited college or university and has practiced three years as an educational staff associate in that role in a state where such certificate was not required.

(2) Continuing certificate. The continuing certificate shall be issued on verification that the candidate has met all requirements for initial and continuing certification in the state of Washington.

NEW SECTION

WAC 180-79-247 Establishing equivalency for course work, degrees and programs completed in countries outside the United States. Certification candidates who have completed degree and/or approved professional

preparation programs in a country other than the United States may be required to submit:

(1) A statement of degree equivalency for the appropriate degree from a foreign credentials' evaluation agency approved by the office of the superintendent of public instruction.

(2) A statement from an official of the college or university where the certification program was completed, indicating completion of the program and approval of the program by the agency governing certification in that country.

AMENDATORY SECTION (Amending Order 27-88, filed 12/14/88)

WAC 180-79-303 Endorsement by examination. In lieu of completing the required number of credit hours and the essential areas of study, or any portion of such requirements, ~~((Washington colleges and universities with an approved preparation program for teachers may waive all or any portion of the requirement for a particular endorsement and recommend the candidate to the superintendent of public instruction for the particular endorsement if the following conditions are met:~~

~~(1) The candidate is required to demonstrate subject matter competency for all or a portion of the requirement waived through passage of one or more written examinations:~~

~~(2) In the case of waiver of an essential area of study, a faculty member regularly responsible for teaching a course which covers that essential area of study must attest to the fact that the proposed examination is of sufficient scope and depth to evaluate the candidate's knowledge of the essential)) individuals may add endorsements to an initial or continuing teaching certificate by examination in one of the following ways:~~

~~(1) An individual may add an endorsement to a teaching certificate by obtaining a score of not less than one-half standard deviation below the mean on a graduate record examination in the subject matter area for which endorsement is sought.~~

~~(2) Washington colleges and universities with an approved preparation program for teachers may waive all or any portion of the requirement for a particular endorsement and recommend the candidate to the superintendent of public instruction for the particular endorsement if the following conditions are met:~~

~~(a) The candidate is required to demonstrate subject matter competency for all or a portion of the requirement waived through passage of one or more written examinations.~~

~~(b) In the case of waiver of an essential area of study, a faculty member regularly responsible for teaching a course which covers that essential area of study must attest to the fact that the proposed examination is of sufficient scope and depth to evaluate the candidate's knowledge of the essential area of study.~~

WSR 94-01-102
PERMANENT RULES
STATE BOARD OF EDUCATION

[Filed December 16, 1993, 10:52 a.m.]

Date of Adoption: November 19, 1993.

Purpose: To repeal sections which are outdated due to action by the state legislature.

Citation of Existing Rules Affected by this Order:
Repealing WAC 180-78-191 and 180-78-196.

Statutory Authority for Adoption: RCW 28A.410.010.

Pursuant to notice filed as WSR 93-20-094 on October 5, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 16, 1993

Dr. Monica Schmidt

Executive Director/Secretary

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 180-78-191. Exit examination—
Development of uniform state
exit examination.

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 180-78-196. Admission to practice
examination—Teacher, and
administrator.

WSR 94-01-103
PERMANENT RULES
STATE BOARD OF EDUCATION

[Filed December 16, 1993, 10:55 a.m.]

Date of Adoption: November 19, 1993.

Purpose: To change a reference from a WAC which has been repealed to the current and correct WAC reference.

Citation of Existing Rules Affected by this Order:
Amending WAC 180-16-236.

Statutory Authority for Adoption: RCW 28A.410.010.
Pursuant to notice filed as WSR 93-20-092 on October 5, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 16, 1993

Dr. Monica Schmidt

Executive Director/Secretary

AMENDATORY SECTION (Amending Order 5-86, filed 6/10/86)

WAC 180-16-236 Assignment of educational staff associates. No person shall be assigned within the basic program of education to serve in a specific educational staff associate role, as ~~((defined in WAC 180-79-175 through 180-79-210))~~ identified in WAC 180-79-125, unless such person holds a certificate or permit endorsed for such specific role.

WSR 94-01-104
PERMANENT RULES
STATE BOARD OF EDUCATION

[Filed December 16, 1993, 10:58 a.m.]

Date of Adoption: November 19, 1993.

Purpose: To clarify the meaning of "regionally accredited institution of higher education."

Citation of Existing Rules Affected by this Order:
 Amending WAC 180-85-025.

Statutory Authority for Adoption: RCW 28A.410.010.

Pursuant to notice filed as WSR 93-20-093 on October 5, 1993.

Effective Date of Rule: Thirty-one day after filing.

December 16, 1993

Dr. Monica Schmidt

Executive Director/Secretary

AMENDATORY SECTION (Amending Order 28-88, filed 12/14/88)

WAC 180-85-025 Continuing education—Definition.

As used in this chapter, the term "continuing education" shall mean:

(1) All college and/or university credit awarded by a regionally accredited institution of higher education, pursuant to WAC 180-78-010(6).

(2) All continuing education credit hours awarded by a vocational-technical institute pursuant to WAC 180-85-030(3) and 180-85-083 and all continuing education credit hours awarded in conformance with the in-service education procedures and standards specified in this chapter by an approved in-service education agency.

WSR 94-01-108
PERMANENT RULES
NORTHWEST AIR
POLLUTION AUTHORITY

[Filed December 16, 1993, 11:22 a.m.]

Date of Adoption: December 8, 1993.

Purpose: To adopt recent state and federal legislation pertaining to operating permit program, chapter 173-401 WAC, and a dry cleaner rule (40 CFR 63 Subpart M).

Citation of Existing Rules Affected by this Order:
 Amending NWAPA Regulation Sections 104, 150, 324, and 326.

Statutory Authority for Adoption: Chapter 70.94 RCW.

Pursuant to notice filed as WSR 93-22-053 on October 29, 1993.

Effective Date of Rule: Thirty-one days after filing.

December 15, 1993

Terry L. Nyman

Control Officer

AMENDATORY SECTION

NWAPA REGULATION SECTION 104 - ADOPTION OF STATE AND FEDERAL LAWS AND RULES

104.1 All provisions of State Law as it now exists or may be hereafter amended, which is pertinent to the operation the Authority is hereby adopted by reference and made part of the Regulation of the Authority as of ~~September 8, 1993~~ December 8, 1993. Specifically, there is adopted by reference the Washington State Clean Air Act (RCW 70.94), the Administrative Procedures Act (RCW 34.04) and RCW 43.21A and 43.21B and the following state rules: WAC 173-400, WAC 173-401, WAC 173-402, WAC 173-403, WAC 173-410, WAC 173-415, WAC 173-425, WAC 173-430, WAC 173-433, WAC 173-434, WAC 173-440, WAC 173-460, WAC 173-470, WAC 173-474, WAC 173-475, WAC 173-480, WAC 173-481, WAC 173-490, WAC 173-491, and WAC 173-802.

104.2 All provisions of the following federal rules are hereby adopted by reference and made part of the Regulation of the Authority as of ~~September 8, 1993~~ December 8, 1993: 40 CFR Part 60 (Standards of Performance For New Stationary Sources) subparts A, B, C, Ca, Cb, D, Da, Db, Dc, E, Ea, F, G, H, I, J, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, FF, GG, HH, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, AAA, BBB, DDD, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, SSS, TTT, VVV; and 40 CFR Part 61 (National Emission Standards For Hazardous Air Pollutants) Subparts A, B, C, D, E, F, H, I, J, K, L, M, N, O, P, Q, R, T, V, W, Y, BB, FF and 40 CFR Part 63 (National Emission Standards for Hazardous Air Pollutants for Source Categories) Subpart M.

Amended: September 8, 1993, December 8, 1993

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION

NWAPA REGULATION SECTION 150 - POLLUTANT DISCLOSURE - REPORTING BY AIR CONTAMINANT SOURCES

150.13 The estimated annual total production of wastes discharged into the air in units and contaminants designated by the Authority. Annual emission reports shall be submitted to the NWAPA within ~~20~~ 105 days after the end of the previous calendar year. If the emission report is not submitted by the required date and the emissions are used to determine operating permit fees as described in Section 324.126 then potential to emit will be used to determine said fees.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION

December 13, 1993
 Vern E. Wagar
 Executive Director

NWAPA REGULATION SECTION 324 - FEES

324.121 Commencing with the effective date of the operating permit program the Authority shall assess and collect annual air operating permit fees in its jurisdiction for any source specified in section 7661(a) of Title V of the Federal Clean Air Act (FCAA) or WAC 173-401-300 (excluding sources regulated by the Washington State Department of Ecology Industrial Section). The total fees required by the NWAPA to administer the program shall be determined by a workload analysis conducted by the staff and approved annually by resolution by the Board of Directors in a public hearing. Allocation of the fees to individual affected sources shall be based on the following:

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION

NWAPA REGULATION SECTION 326 - OPERATING PERMITS

326.1 Purpose

The purpose of this Section is to provide for the implementation of a renewable operating permit program consistent with the requirements of Title V of the Federal Clean Air Act Amendments of 1990, WAC 173-401 and RCW 70.94.

326.2 Applicability

The provisions of this section shall apply to all sources within the NWAPA jurisdiction excluding those regulated by the Washington State Department of Ecology Industrial Section subject to the requirements of section 7661(a) of the Federal Clean Air Act (FCAA) or WAC 173-401-300.

WSR 94-01-115
PERMANENT RULES
COUNTY ROAD
ADMINISTRATION BOARD
 [Filed December 17, 1993, 9:30 a.m.]

Date of Adoption: October 6, 1993.

Purpose: Change fixed values for regional land area ratios to a biennially updated method.

Citation of Existing Rules Affected by this Order: Amending WAC 136-119-020.

Statutory Authority for Adoption: RCW 36.79.060.

Pursuant to notice filed as WSR 93-18-029 on August 25, 1993.

Changes Other than Editing from Proposed to Adopted Version: Change information source from secretary of transportation to Office of Financial Management.

Effective Date of Rule: Thirty-one days after filing.

AMENDATORY SECTION (Amending Order 56, filed 7/30/84)

WAC 136-110-020 Computation of land area ratio.
 ((The rural land areas of each region, and the ratio which they bear to the total rural land area of the state are shown as follows:

| REGION | RURAL LAND AREA SQ. MILE | % OF TOTAL RURAL LAND AREA |
|-------------|-----------------------------|----------------------------------|
| Puget Sound | 5,005 | 7.71 |
| Northwest | 8,060 | 12.43 |
| Northeast | 26,711 | 41.14 |
| Southeast | 14,748 | 22.72 |
| Southwest | 10,387 | 16.00 |
| TOTAL | 64,920 | 100.00)) |

The ratio which the total county rural land area of each region bears to the total rural land area of all counties of the state shall be computed from information provided by the office of financial management as of July 1, 1993, and each two years thereafter.

WSR 94-01-116
PERMANENT RULES
COUNTY ROAD
ADMINISTRATION BOARD
 [Filed December 17, 1993, 9:31 a.m.]

Date of Adoption: October 6, 1993.

Purpose: To include rural arterials (Federal Function Classes 02 and 06) in definition of "arterials" for county arterial preservation program eligibility.

Citation of Existing Rules Affected by this Order: Amending WAC 136-310-010.

Statutory Authority for Adoption: RCW 46.68.095(4). Pursuant to notice filed as WSR 93-18-028 on August 25, 1993.

Effective Date of Rule: Thirty-one days after filing.
 December 13, 1993
 Vern E. Wagar
 Executive Director

AMENDATORY SECTION (Amending Order 81, filed 11/6/90, effective 12/7/90)

WAC 136-310-010 Certification of county arterial mileage. (1) Classification. The act specifies that expenditure of CAPA funds is restricted to paved arterials in the unincorporated area of each county. Arterials are defined as being those county roads:

(a) In urban areas, classified as arterials (Federal Functional Classes 12, 13, 14, 15, and 16) or classified as collectors (Federal Functional Class 17);

(b) In rural areas, classified as arterials (Federal Functional Classes 02 and 06) or classified as major collectors (Federal Functional Class 07) or minor collectors (Federal Functional Class 08).

PERMANENT

Paved roads are defined as those roads which, at the time of CAPA allocation determination, are hard-surfaced through the application of a bituminous surface treatment (BST), asphaltic concrete pavement (ACP), or portland cement concrete (PCC). Brick or block surfaces shall also be considered as paved.

(2) Source of information. The master county road log as maintained by the CRABoard in accordance with chapter 136-60 WAC shall be the source of official paved road mileages to be used for CAPA distribution.

WSR 94-01-117
PERMANENT RULES
DEPARTMENT OF LICENSING

(Cemetery Board)

[Filed December 17, 1993, 10:40 a.m.]

Date of Adoption: December 17, 1993.

Purpose: To amend existing rules to establish application fees for certificate of authority, crematory license/endorsement, and exemption from prearrangement sales license; to establish a renewal fee for exemption from prearrangement sales license; and to raise the renewal fee for certificate of authority to operate.

Citation of Existing Rules Affected by this Order: Amending WAC 98-70-010.

Statutory Authority for Adoption: RCW 68.05.100.

Pursuant to notice filed as WSR 93-20-126 on October 6, 1993.

Effective Date of Rule: Thirty-one days after filing.
 December 17, 1993

M. C. Collins
 Assistant Director
 Business and Professions

AMENDATORY SECTION (Amending WSR 93-07-041, filed 3/12/93, effective 4/12/93)

WAC 98-70-010 Fees. The following fees shall be charged by the (~~Washington state cemetery board~~) department of licensing:

| Title of Fee | Fee |
|---|--------------------|
| ((Regulatory charges | |
| Charge per each preceding calendar year interments, entombments and inurnments | \$ 3.00 |
| Prearrangement sales license | |
| Application | 100.00 |
| Renewal | 50.00 |
| Cremated remains disposition permit or endorsement | |
| Application | 50.00 |
| Renewal | 25.00 |
| Crematory license/endorsement fifty dollars/year plus fifty cents per cremation performed during applicable year.) | |
| <u>Certificate of authority</u> | |
| Application | <u>\$250.00</u> |

Renewal 3.75
Charge per each interment, entombment and inurnment during preceding calendar year

Crematory license/endorsement
Application 100.00
Renewal
Fifty dollars plus fifty cents per cremation performed during the preceding calendar year

Prearrangement sales license
Application 100.00
Renewal 50.00

Exemption from prearrangement sales license
Application 50.00
Renewal 25.00

Cremated remains disposition permit or endorsement
Application 50.00
Renewal 25.00

WSR 94-01-126
PERMANENT RULES
DEPARTMENT OF PERSONNEL

[Filed December 17, 1993, 4:59 p.m., effective January 18, 1994]

Date of Adoption: December 17, 1993.

Purpose: The new chapter 356-56 WAC creates the Washington management service and creates new rules for managers.

Citation of Existing Rules Affected by this Order: WAC 356-56-001 Declaration of purpose, 356-56-002 Inclusion in the Washington management service, 356-56-010 Application of rules, 356-56-015 Phase in agencies, 356-56-020 Role of the Department of Personnel, 356-56-021 Transition of career executive program, 356-56-030 Equal opportunity and affirmative action, 356-56-035 Definitions, 356-56-050 Transition, 356-56-100 Compensation policy and practice, 356-56-105 Position evaluation— Assignment to management bands, 356-56-115 Salary adjustments, 356-56-120 Other pay practices, 356-56-125 Salary surveys, 356-56-200 Recruitment and selection policy and practice, 356-56-205 Movement within Washington management service, 356-56-210 Movement between Washington management service and Washington general service positions, 356-56-215 Interim appointments, 356-56-220 Review period—Attaining permanent status, 356-56-230 Reversion, 356-56-255 Return from exempt service, 356-56-400 Training and development, 356-56-410 Tuition reimbursement and educational leave, 356-56-420 Human resource development plan, 356-56-440 Performance evaluation, 356-56-500 Disciplinary actions, 356-56-550 Reduction in force—Agency procedure—Bump options, 356-56-600 Appeals, 356-56-610 Reviews, 356-56-630 Resignation, 356-56-650 Record keeping, and 356-56-660 Administrative procedures.

Statutory Authority for Adoption: Chapter 41.06 RCW and RCW 41.06.500.

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Pursuant to notice filed as WSR 94-01-048 on December 7, 1993; and WSR 93-23-067 on November 16, 1993.

Changes Other than Editing from Proposed to Adopted Version: The changes that have occurred in chapter 356-56 WAC are a result of many public meetings with people concerned with or affected by these rules. Changes occurred in almost every section as a result of editing and content comments from assistant attorney generals, affected employees, personnel representatives, employee organization representatives, and agencies' directors. The rules were reorganized for better understanding and smoother flow.

Effective Date of Rule: January 18, 1994.

December 17, 1993

Dennis Karras
Director

WAC 356-56

WASHINGTON MANAGEMENT SERVICE

- WAC 356-56-001 Declaration of purpose
- WAC 356-56-002 Inclusion in the Washington Management Service
- WAC 356-56-010 Application of rules
- WAC 356-56-015 Phase in agencies
- WAC 356-56-020 Role of the Department of Personnel
- WAC 356-56-021 Transition of career executive program
- WAC 356-56-030 Equal opportunity and affirmative action
- WAC 356-56-035 Definitions
- WAC 356-56-050 Transition
- WAC 356-56-100 Compensation policy and practice
- WAC 356-56-105 Position evaluation - assignment to management bands
- WAC 356-56-115 Salary adjustments
- WAC 356-56-120 Other pay practices
- WAC 356-56-125 Salary surveys
- WAC 356-56-200 Recruitment and selection policy and practice
- WAC 356-56-205 Movement within Washington Management Service
- WAC 356-56-210 Movement between Washington Management Service and Washington General Service positions
- WAC 356-56-215 Interim appointments
- WAC 356-56-220 Review period - attaining permanent status
- WAC 356-56-230 Reversion
- WAC 356-56-255 Return from exempt service
- WAC 356-56-400 Training and development
- WAC 356-56-410 Tuition reimbursement and educational leave
- WAC 356-56-420 Human resource development plan
- WAC 356-56-440 Performance evaluation
- WAC 356-56-500 Disciplinary actions
- WAC 356-56-550 Reduction in force—Agency procedure—Bump options
- WAC 356-56-600 Appeals
- WAC 356-56-610 Reviews
- WAC 356-56-630 Resignation
- WAC 356-56-650 Record keeping
- WAC 356-56-660 Administrative procedures

NEW SECTION

WAC 356-56-001 Declaration of purpose. (1) The general purpose of this chapter of rules is to establish for the state a system of personnel administration called the Washington management service, as authorized in RCW 41.06.500.

(2) Except as provided in RCW 41.06.070, the director of the department of personnel is authorized to adopt, after consultation with state agencies and employee organizations, rules for managers as defined in WAC 356-56-002.

(3) In establishing rules for managers, the director shall adhere to the following goals:

(a) A simplified classification system that facilitates movement of managers between agencies and promotes upward mobility;

(b) A compensation system consistent with RCW 41.06.150(17). The system shall provide flexibility in setting and changing salaries;

(c) A performance appraisal system that emphasizes individual accountability for program results and efficient management of resources; effective planning, organization, and communication skills; valuing and managing workplace diversity; development of leadership and interpersonal abilities; and employee development;

(d) Strengthened management training and career development programs that build critical management knowledge, skills, and abilities; focusing on managing and valuing workplace diversity; empowering employees by enabling them to share in workplace decision making, and to be innovative, willing to take risks, and able to accept and deal with change; promoting a workplace where the overall focus is on the recipient of the government services and how these services can be improved; and enhancing mobility and career advancement opportunities;

(e) Flexible recruitment and hiring procedures that enable agencies to compete effectively with other employers, both public and private, for managers with appropriate skills and training; allowing consideration of all qualified candidates for positions as managers; and achieving affirmative action goals and diversity in the workplace;

(f) Provisions that managers may only be reduced, dismissed, suspended, or demoted for cause;

(g) Facilitation of decentralized and regional administration; and,

(h) Ensure that decisions are not based on patronage or political affiliation.

NEW SECTION

WAC 356-56-002 Inclusion in the Washington management service. (1) Chapter 356-56 WAC applies only to classified employees or positions that meet the definition of manager. Each agency will identify all positions that meet this definition and will place them in the Washington management service. Manager or managerial employee means the incumbent of a position that is assigned as follows:

(a) Formulates state-wide policy or directs the work of an agency or agency subdivision;

(b) Administers one or more state-wide policies or programs of an agency or agency subdivision;

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(c) Manages, administers, and controls a local branch office of an agency or an agency subdivision, including the physical, financial, or personnel resources;

(d) Has substantial responsibility in personnel administration, legislative relations, public information, or the preparation and administration of budgets; or,

(e) Functionally is above the first level of supervision and exercises authority that is not merely routine or clerical in nature and requires the consistent use of independent judgment.

(2) Chapter 356-56 WAC shall not apply to managers whose positions are exempt from civil service or who are employed by institutions of higher education and related boards.

NEW SECTION

WAC 356-56-010 Application of rules. (1) These rules shall be separate from rules adopted by the Washington personnel resources board for other classified employees, and to the extent that the rules adopted apply only to managers, shall take precedence over rules adopted by the board, and are not subject to review by the board.

(2) The intent of the director of personnel in adopting the rules in this chapter is to comprehensively cover the personnel matters relating to Washington management service positions. Therefore, if a Washington management service issue is identified that the director has not specifically addressed by adopting rules, the Washington personnel resources board rules shall not be effective or take precedence in addressing the issue.

(3) Except where specifically stated otherwise, the following WAC chapters do not apply to positions or employees included in the Washington management service:

- WAC 356-05 Definitions
- WAC 356-10 Classification
- WAC 356-14 Compensation
- WAC 356-15 Compensation Plan Appendix
- WAC 356-22 Recruitment - Examination
- WAC 356-26 Registers - Certification
- WAC 356-30 Appointments - Separation
- WAC 356-34 Disciplinary Action - Appeals
- WAC 356-37 Hearings
- WAC 356-39 Human Resource Development
- WAC 356-49 Intersystem Employment

(4) Except where specifically stated otherwise, the following WAC Chapters do apply to positions or employees included in the Washington management service:

- WAC 356-06 General Provisions
- WAC 356-07 Operations and Public Records
- WAC 356-09 Affirmative Action Program
- WAC 356-18 Leave
- WAC 356-35 Disability-Separation-Appeals-Procedures
- WAC 356-42 Labor Relations
- WAC 356-46 Miscellaneous
- WAC 356-48 State Internship Program

NEW SECTION

WAC 356-56-015 Phase in agencies—Application of rules. Chapter 356-56 WAC adopted by the director of personnel and effective January 1994 will apply only to the department of personnel, department of revenue, department of transportation, and office of minority and women’s business enterprises. After the phase-in period, the director will adopt rules that apply to all agencies.

NEW SECTION

WAC 356-56-020 Role of the department of personnel. (1) The department of personnel will provide support, guidelines, and assistance to agencies in the decentralized administration of all aspects of the Washington management service.

(2) The department of personnel will consult with each agency as needed to ensure fair and equitable administration of Washington management service rules.

NEW SECTION

WAC 356-56-021 Washington management service—Transition of career executive program. (1) The provisions of this section apply only to managerial employees appointed to career executive program positions in probationary, trial service or permanent status as of June 30, 1993. The provisions of WAC 356-56-021 do not apply to managerial employees in these positions in agencies listed in WAC 356-56-015.

(2) Individuals who leave the above positions, all other managerial employees, and all vacant managerial positions are subject to the provisions of the remaining chapters of WAC 356, until such time as the director adopts rules in WAC 356-56 which pertain to those employees and positions.

(3) Managerial employees referenced in sub-section (1) of this section who successfully complete a twelve-month probationary or trial service period shall attain permanent status in the classification to which their position is allocated.

(4) Permanent managerial employees referenced in sub-section (1) of this section shall retain permanent status in the classification to which their position is allocated.

(5) Managerial employees referenced in sub-section (1) of this section who have been in the same job class and position for four consecutive years from career executive appointment date shall be removed from coverage of the provisions of this section, UNLESS an extension is approved by the director or designee.

(6) An agency director may remove a managerial employee from coverage of the provisions of this section, provided that the employee was informed of a limitation of less than four consecutive years on career executive program participation upon appointment to the program.

(7) Permanent managerial employees who voluntarily leave career executive transition status or leave in accordance with sub-sections (5) and (6) of this section, shall remain in their position and retain permanent status. Agencies shall notify the director of personnel, or designee of these vacancies.

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(8) Managerial employees who have not successfully completed a probationary or trial service period into positions referred in sub-section (1) of this section, or where the position is subsequently abolished, shall be entitled to return to the position or class previously held with permanent status. If such position is not available, the managerial employee shall return to a position similar in nature and salary to the position previously held. Employees appointed into these positions via the open competitive process shall not have return rights under the provisions of this section.

(9) Employees shall not be offered reduction-in-force options or trial service reversion rights to filled positions that were in the career executive program on June 30, 1993. Agencies may elect to return entitled exempt employees to these positions.

(10) Except for the agencies named in WAC 356-56-015, this section providing for career executive transition into the Washington management service shall be in effect until the director of personnel adopts rules in chapter 356-56 WAC replacing this section and encompassing all classified managerial employees subject to the provisions of chapter 41.06 RCW.

NEW SECTION

WAC 356-56-030 Equal opportunity and affirmative action. (1) Washington management service policies and practices shall not discriminate on the basis of race, creed, color, national origin, sex, age, marital status, veteran status, sexual orientation, or the presence of any sensory, mental, or physical disability.

(2) Each agency will include Washington management service positions in its affirmative action plans required by chapter 356-09 WAC. Each agency will be accountable for establishing procedures, goals, timetables, and record keeping and monitoring procedures for Washington management service positions as part of its affirmative action program.

NEW SECTION

WAC 356-56-035 Definitions. (1) **Anchor positions.** Generic anchor positions are those which are found in many agencies; they are commonly understood and similarly used from agency to agency. Agency-specific anchor positions are those anchor positions in each agency which are commonly understood and similarly used throughout the agency.

(2) **Appointing authority.** A person or group of persons designated by the agency head to make appointments, impose formal discipline or otherwise regulate personnel matters.

(3) **Management bands.** A series of management levels included in the Washington management service. Placement in a band reflects the nature of management, decision-making environment and policy impact, and scope of management accountability and control assigned to the position.

(4) **Salary level.** A range of ten percent higher and lower than the salary assigned to the position.

(5) **Washington general service.** The system of personnel administration that applies to classified employees or positions under the jurisdiction of chapter 41.06 RCW and exclusively under those chapters of Title 356 WAC that are adopted by the Washington personnel resources board.

(6) **Washington management service.** The system of personnel administration that applies to classified managerial employees or positions under the jurisdiction of RCW 41.06.022 and 41.06.500 and those chapters of Title 356 WAC that are adopted by the director of personnel.

NEW SECTION

WAC 356-56-050 Transition. (1) Until such time that an agency completes the initial evaluation of the position (as described in WAC 356-56-105) or changes the position, the incumbent and position when initially placed in the Washington management service will:

(a) Retain current salary;

(b) Continue to receive periodic increments as specified in WAC 356-14-110 within the forty-five thousand dollar salary limit set by the 1993 legislature;

(c) Immediately assume permanent status in the Washington management service for permanent status employees;

(d) Obtain permanent status upon completion of the probationary or trial service time period for employees in trial service or probationary status at the time of transition; and,

(e) Continue in the current work period designation until changed by the agency.

(2) Until all positions in an agency are evaluated in accordance with WAC 356-56-105, employees shall be treated in accordance with WAC 356-30-330 should a reduction in force occur.

(3) Permanent status employees who are in project positions at the time their regular positions are placed in the Washington management service, have return rights to the same or similar Washington management service positions.

NEW SECTION

WAC 356-56-100 Compensation policy and practice. (1) Each agency has the overall responsibility for effectively managing and properly budgeting for salaries for its Washington management service positions. Each agency shall develop policies and procedures, consistent with chapter 356-56 WAC and guidelines established by the department of personnel, for fair and objective internal salary administration. In developing and administering these policies and procedures, each agency will adhere to the following:

(a) In all aspects of compensation administration, no agency policy or procedure shall be negotiated or agreed to that reduces an agency's flexibility and discretion in assigning salaries, making salary adjustments, or other pay practices.

(b) Point factor evaluations of anchor positions will provide a framework for the evaluations of the remaining positions in the Washington management service. The department of personnel will participate in re-evaluations of generic anchor positions.

(c) Each agency will identify agency-specific anchor positions which are generally used the same throughout the agency.

(2) The salary for each position shall have a relationship to both its point factor evaluation and the prevailing market rate.

NEW SECTION

WAC 356-56-105 Position evaluation—Assignment to management bands. Management bands are a series of management levels included in the Washington management service. Placement in a band reflects the nature of management, decision-making environment and policy impact, and scope of management accountability and control assigned to the position. Each agency will evaluate its positions using a managerial point factor system developed by the department of personnel. The number of points resulting from the evaluation will determine to which management band a position is assigned.

NEW SECTION

WAC 356-56-115 Salary adjustments. (1) Adjustments to the compensation for a position with no change in point factor evaluation shall not exceed the maximum or fall below the minimum amount set by the director of personnel for the management band. Normally, salary adjustments initiated by the agency will not exceed ten percent for a single fiscal year. Requests for exception may be granted only by the director of personnel. Salary adjustments may be made under the following conditions:

(a) Legislatively directed general and/or special increase;
 (b) Documented recruitment and/or retention problems as approved by the agency director or designee;

(c) Documented agency and/or state internal salary relationship problems, as approved by the agency director or designee; or

(d) Progression adjustments may be granted during the first four years following hire or promotion (in accordance with 356-56-205(1)). An agency may adjust an employee's pay by up to five percent annually in recognition of the employee's demonstrated growth and development.

(i) An employee who transitions into Washington management service shall continue to receive an annual increment until the employee's salary reaches the maximum of the range assigned to the former job classification.

(ii) Progression adjustments must be within the forty-five thousand dollar salary limit established by the 1993 legislature until such time as the limit is changed or removed.

(2) Voluntary movement to a position of a lesser point factor evaluation may result in a salary decrease which exceeds ten percent.

(3) A promotion is the assignment of additional responsibilities which results in a higher point factor evaluation in the same position, or movement to a different position that has a higher point factor evaluation. Increases in salary made to meet the new point factor evaluation may exceed ten percent.

(4) A disciplinary demotion is the assignment of responsibilities which results in a lower point factor evaluation in the same position, or movement to a different position that has a lower point factor evaluation. The resulting salary decrease may exceed ten percent and must be in conformance with the provisions of the Fair Labor Standards Act. A disciplinary reduction in salary in conformance with the Fair Labor Standards Act may also exceed ten percent.

(5) Involuntary downward movement based on a non-disciplinary reassignment of duties that results in a lower point factor evaluation of an employee's present position shall not cause a decrease in the employee's current salary. The employee's current salary will be retained until such time as it is exceeded by the new salary level or the employee leaves the position.

(6) An agency may provide a lump sum recognition payment within guidelines established by the department of personnel in recognition of documented exceptional work and performance results. Such recognition compensation shall not become a permanent salary increase but is considered to be income for the documented exceptional work and performance results. A payment made as a lump sum for recognition purposes shall be included within the ten percent annual adjustment limitation in the fiscal year in which it is paid.

NEW SECTION

WAC 356-56-120 Other pay practices. (1) Each agency shall be responsible for determining the work period designation for each of its positions in accordance with the federal Fair Labor Standards Act. For positions covered by the overtime provisions of the Fair Labor Standards Act, pay shall be administered as prescribed by chapter 356-15 WAC.

(2) Leave accrual and use and holiday time will be administered as prescribed in chapter 356-18 WAC.

NEW SECTION

WAC 356-56-125 Salary surveys. Every even-numbered year the department of personnel shall conduct a survey of selected management positions and pay practices to determine the general competitiveness of the management band salary structure and salaries paid to specific surveyed positions. Salary survey recommendations will be forwarded to the office of the governor and to the legislature. Additional surveys may be conducted, or other survey information used, by the department of personnel to make specific salary recommendations for Washington management service positions.

NEW SECTION

WAC 356-56-200 Recruitment and selection policy and practice. Each agency shall develop policies and procedures for filling positions and for employee movement that will best meet client, employee, management, and organizational needs.

(1) Policies and procedures for recruitment and selection will be inherently flexible, permitting methods and strategies to be varied and customized for each recruitment and selection need. In all aspects of recruitment and selection, no agency policy or procedure shall be negotiated or agreed to if it will reduce the agency's flexibility and discretion in filling a position or moving an employee; provided that, such policies and procedures are consistent with chapter 356-56 WAC.

(2) In developing and administering these policies and procedures, each agency will adhere to the following:

(a) Provide for the ability to consider any or all qualified candidates for hire, promotion, or internal movement.

(b) Ensure that hiring decisions are fair, objective, and based on the evaluation of the knowledge, skills, abilities, and other job related characteristics required for successful job performance.

(c) Support workforce diversity and affirmative action goals.

(d) Consider the career development of the agency's employees and other state employees.

(e) Ensure that hiring decisions are not based on patronage or political affiliation.

(f) Ensure compliance with state and federal laws relating to employee selection and nondiscrimination.

(g) Encourage decentralized and regional administration of the recruitment and selection processes when it is appropriate for the agency.

(h) Encourage notification of the department of personnel when recruiting outside the hiring agency.

NEW SECTION

WAC 356-56-205 Movement within Washington management service. (1) A promotion within the Washington management service occurs when an employee's salary is adjusted upward as a result of WAC 356-56-115(3). A review period may be required as specified in WAC 356-56-220.

(2) There is no required promotional preference when recruiting and selecting for Washington management service positions. However, an agency may determine, on an individual position basis, if it is in the organization's best interest to limit the candidate pool to those eligible for agency or service-wide promotion.

(3) A transfer is the movement of an employee from one position to a different position or movement of a position from one section, department, or geographical location to another. The salary of the employee or the position remains at the same salary level.

(a) An employee and the affected agency or agencies may agree to a transfer within Washington management service, within an agency, or between agencies.

(b) An agency or agencies may transfer an employee or a position with an incumbent to meet client or organizational needs if the new location is within a reasonable commute as defined by the agency.

(c) An agency may transfer a position at any time. However, if the transfer results in an unreasonable commute for the incumbent, and the incumbent does not agree to transfer with the position, the rules on reduction in force as provided in WAC 356-56-550 shall apply.

NEW SECTION

WAC 356-56-210 Movement between Washington management service and Washington general service positions. (1) Employees who have attained permanent status, or who have completed six months of the review period in the Washington management service are eligible to compete under promotional recruitments for Washington general service positions.

(2) Permanent employees may transfer from the Washington management service to Washington general service positions if their salary is within the salary range of the Washington general service position.

(3) Permanent employees may transfer from Washington general service to Washington management service positions if their salary is within the salary level of the Washington management service position.

(4) Permanent employees may voluntarily demote between Washington management service and Washington general service positions at a lower pay level than their current permanent position.

NEW SECTION

WAC 356-56-215 Acting appointments. An agency may make acting, non-permanent appointments when necessary to meet organizational needs. Prior to the appointment, the appointing authority will communicate in writing to the employee the length, intent, salary, and other conditions of the appointment. Permanent employees will have the right to resume their previous or similar position at the conclusion of the acting appointment. However, an employee shall not be forced to accept an acting appointment that results in an increase or decrease in salary.

NEW SECTION

WAC 356-56-220 Review period—Attaining permanent status. (1) The review period for an appointee to a position within the Washington management service is a period of time to allow the employer to ensure the appointee meets the performance and other requirements of the position.

(2) Based on the nature of the job and the skills of the appointee, the review period will be between twelve and eighteen months as determined by the appointing authority. The appointing authority will inform the appointee in writing at the time of appointment of the length of the review period.

(3) Appointees from outside state service and promotional appointees will attain permanent status in the position upon successful completion of the review period.

(4) An appointing authority may require a permanent employee who transfers or voluntarily demotes to serve a review period.

(5) An employee who is promoted to a different Washington management service position during the review period, will begin a new review period for the new position. The employee will concurrently serve both the original and the new review period and will attain permanent status as a state employee in the original position when the original review period elapses.

(6) An employee who is appointed to a Washington management service position from a Washington general service position while serving a probationary or trial service period in the same or similar occupational field will serve the trial service or probationary period concurrently with the review period. The employee will attain permanent status in the previous job classification once the original probationary or trial service period elapses.

(7) The agency may require a review period when the employee remains in the same position and receives a promotion.

NEW SECTION

WAC 356-56-230 Reversion. (1) During the review period, the appointing authority may separate or revert the employee from the position with written notification of the effective date.

(2) If a Washington management service permanent employee is appointed to a position within an agency or to another agency and reverted during the review period, the hiring agency will place the employee in a vacant funded position for which the employee is qualified, and that is comparable to the employee's position and salary prior to the last Washington management service appointment.

(3) Within the first six months of any review period, an employee may voluntarily revert to the position, if vacant and funded, held prior to the employee's first Washington management service appointment or to a similar funded vacant position at the same salary range. If no funded vacancies are available, the employee may request to be placed on the reversion registers for the Washington general service class in which the employee held status prior to the first Washington management service appointment.

(4) Nothing in this section shall preclude agencies and the reverted employee from reaching mutual agreement on placement of a reverted employee within the Washington management service or within the Washington general service if permitted by the respective rules.

(5) If reversion of a permanent employee appointed to or within the Washington management service results in fewer funded positions than employees entitled to the positions, and the agency consequently conducts a reduction in force, the provisions of WAC 356-56-550 will apply.

(6) Reversion of employees appointed from the Washington general service will be carried out as provided in WAC 356-30-320.

(a) A permanent employee who is appointed from the Washington general service to a Washington management service position with the same agency will retain reversion rights to the class in which the employee held permanent status prior to the appointment.

(b) A permanent employee who is appointed from the Washington general service to a Washington management service position in another agency and is reverted retains the right to return to a funded position in the class and agency in which the employee held permanent status prior to the appointment to the Washington management service. If no vacant funded position is available, the employee may request to be placed on the reversion register as per WAC 356-26-030 (3) and (5) and 356-30-320.

(7) An appointee to a Washington management service position from outside state service who is separated prior to completion of the review period will not attain permanent status, nor have reversion rights to any position within the Washington management service or within the Washington general service.

(8) Employees may not appeal reversion or separation from the review period.

NEW SECTION

WAC 356-56-255 Return from exempt service. Return from an exempt appointment will be accomplished as provided in WAC 356-06-055.

NEW SECTION

WAC 356-56-400 Training and development. (1) The responsibility for training and development is a collaborative effort among state agencies, managers, and the department of personnel.

(a) Each state agency shall provide development and training opportunities specifically designed to refine and broaden managerial knowledge, skills, and abilities. Diversity and education about the civil service system will be part of this training.

(b) Managers shall be responsible for seeking out and fully participating in opportunities to enhance their knowledge, skills, and abilities.

(2) The department of personnel shall assist state agencies by providing a quality training program and consultative and technical assistance to help agencies address the development needs of their managers.

NEW SECTION

WAC 356-56-410 Tuition reimbursement and educational leave. Each agency shall develop policies for managerial development and training opportunities and criteria for providing textbooks, materials, registration fees, and other training and educational expenses, tuition reimbursement, and educational leave.

NEW SECTION

WAC 356-56-420 Human resource development plan. Each agency shall ensure that the development needs of managers are incorporated into the agency's human resource development plan. Each agency is responsible for periodic evaluations of its plan.

NEW SECTION

WAC 356-56-440 Performance evaluation. (1) Each agency shall evaluate the performance of its managers during their review periods and at least annually thereafter.

(2) The department of personnel shall provide a performance evaluation system which shall be used by each state agency for evaluation of its managers. Agencies may tailor the managerial evaluation system to fulfill agency-unique needs, provided the emphasis be placed on:

(a) Collaboration and communication between the supervisor and managerial employee during the performance planning and evaluation process;

(b) Planning for and assessment of results;

(c) Preparation of a management development plan; and,

(d) Assessment of those knowledge, skills, and abilities that are critical to effective managerial performance.

NEW SECTION

WAC 356-56-500 Disciplinary action. Appointing authorities may demote, suspend, reduce in salary, or dismiss a permanent Washington management service employee for cause. The disciplinary process shall be administered in accordance with WAC 356-34-020 through 356-34-070. However, these actions must be in conformance with the Fair Labor Standards Act.

NEW SECTION

WAC 356-56-550 Reduction in force—Agency procedure—Bump options. (1) Washington management service employees may be separated due to reduction in force in accordance with WAC 356-30-330, except that WAC 356-30-330 (3)(d) through (f) and (7) shall not apply. Seniority shall be defined as provided in WAC 356-05-390.

(2) Appointment to vacancies and "bumping" shall occur in accordance with the agency reduction in force plan and the following:

(a) Appointing authorities will seek within the agency a funded vacant position for which the employee has the required job skills that is at the same salary within the Washington management service. If no funded vacancies exist, then the appointing authority shall seek a funded position within the agency at the same or lower salary for which the separated employee has greater seniority, applicable personal work history, and the required job skills as outlined in the agency reduction in force plan. The appointing authority will first look within the current management band for equivalent funded positions at the same salary, and if none are found, then progressively to lower salaries. The appointing authority may consider vacant positions within the agency at a higher salary. Lower salary positions are positions where the mid-point salary is lower than the mid-point salary of the current position. Mid-point salary is the resultant salary of the point factor evaluation plus any prevailing rate factor.

(b) Appointing authorities will consider appropriate Washington general service positions within the agency in the same occupational field with the same or similar salary for which the employee is qualified and has held permanent status, prior to considering appropriate Washington management service positions within the agency which have a lower salary.

(c) Permanent Washington management service employees who have no options for the same or similar positions in the Washington management service, and who have held permanent status in the Washington general service, will be afforded reduction in force rights as provided in chapter 356-30 WAC.

NEW SECTION

WAC 356-56-600 Appeals. (1) Only disciplinary action as defined in WAC 356-56-500, transfer that is alleged to be an unreasonable commute, disability separation, or reduction in force action directly affecting a permanent Washington management service employee may be appealable to the personnel appeals board as provided in Title 358 WAC.

(2) Decisions on which Washington management service positions shall be eliminated under reduction in force actions shall not be appealable to the personnel appeals board.

NEW SECTION

WAC 356-56-610 Reviews. (1) Each agency will develop policies and procedures for conducting an informal review of certain actions with which the affected employee disagrees (except as described in WAC 356-56-600). In developing and administering these policies, the agency will adhere to the following:

(a) The informal review shall be limited to a maximum of three levels of review within the agency.

(b) Informal reviews may be limited to a review of documentation and other relevant information. Review decisions should be prompt.

(c) Except as provided in WAC 356-56-610 (3)(c), the informal review will be conducted by the agency director or designee.

(2) Employee requests for review must be in writing and requested within fifteen calendar days of the action or notification or awareness (whichever was first) of the action to be reviewed.

(3) An agency shall conduct an informal review, at the employee's request, for the following actions:

(a) Salary adjustment (or lack thereof) when the responsibilities of the permanent employee's position have been changed.

(b) Placement actions following reversion of a permanent employee.

(c) Decisions about if a position is included in the Washington management service.

(i) The final agency-internal review shall be conducted by the agency director or designee.

(ii) If the incumbent disagrees with the agency director/designee's decision, he/she may request a review by the director of the department of personnel, provided that such request is made within fifteen calendar days of notification of the decision. Such review will be limited to relevant documents and information and will be final.

(4) Each agency is responsible for identifying and acting upon patterns or trends that signal problems or training needs among its managers.

(5) Each agency shall maintain a record of the number, nature, and outcome of informal reviews.

(6) The director of personnel retains the right to review any review decision rendered by agency heads or designees or any actions taken under the Washington management service.

NEW SECTION

WAC 356-56-630 Resignation. Washington management service employees may resign following the provisions of WAC 356-30-250 (1) through (4).

NEW SECTION

WAC 356-56-650 Record keeping. Each agency will maintain records of employees in the Washington management service. The records will identify employees as members of the Washington management service, including

position numbers and position titles, and track all personnel actions related to them. Agencies will be responsible for reporting statistical information to the department of personnel regarding diversity, applicant flow, and appointments following each selection.

NEW SECTION

WAC 356-56-660 Administrative procedures—Rule making. (1) The director of personnel will adopt rules as necessary and appropriate pursuant to RCW 41.06.500 and chapter 356-56 WAC. The director will hold a formal, public meeting to receive comments and a record of proceedings will be maintained.

(2) The meetings in which the director of personnel receives comments on rule proposals shall be conducted in a facility and manner that reasonably accommodates the needs of persons with disabilities.

(3) Interested parties may participate in the formulation of rules or amendments thereto by offering proposals for the director's consideration. As necessary, informal meetings of interested parties and department of personnel staff may be called prior to presenting rule proposals to the director.

WSR 94-01-134
PERMANENT RULES
FOREST PRACTICES BOARD

[Filed December 20, 1993, 2:34 p.m., effective January 1, 1994]

Date of Adoption: December 9, 1993.

Purpose: To modify forest practices rules, in order to protect public resources coincident with maintaining a viable timber industry.

Citation of Existing Rules Affected by this Order: Amending WAC 222-08-030, 222-12-020, 222-16-030, 222-16-035, 222-16-060, 222-24-010, 222-24-025, 222-24-040, 222-34-030, 222-46-010, 222-46-020, 222-46-030, 222-46-040, 222-46-060, 222-46-070, and chapter 222-22 WAC; and new WAC 222-46-065.

Statutory Authority for Adoption: RCW 76.09.040, 76.09.170, and chapter 34.05 RCW.

Pursuant to notice filed as WSR 93-20-077 on October 4, 1993.

Changes Other than Editing from Proposed to Adopted Version: Sections dealing with calculation of the penalty and the base penalty schedule were clarified and simplified as a result of public comments. These changes were not substantial changes.

Other Findings Required by Other Provisions of Law as Precondition to Adoption or Effectiveness of Rule: The 1993 legislature amended RCW 76.09.170 which requires that the board adopt a penalty schedule to be effective no later than January 1, 1994.

Effective Date of Rule: January 1, 1994.

December 10, 1993
Jennifer M. Belcher
Commissioner of Public Lands

AMENDATORY SECTION (Amending Order 263, filed 6/16/76)

WAC 222-08-030 Reporting procedures. The department shall:

(1) **Survey and identify** all silviculturally related nonpoint sources of pollution and related control programs in the state,

(2) **Prepare an analysis** of the above activities and programs, and

(3) **Report and recommend** to the ~~((forest practices advisory committee, the))~~ forest practices board and to the governor additional rules and regulations, procedures and/or methods necessary for the control of such sources to the extent feasible.

AMENDATORY SECTION (Amending WSR 93-12-001, filed 5/19/93, effective 6/19/93)

WAC 222-12-020 Regulation sections. These regulations are organized as follows:

Chapter 222-08 WAC Practices and procedures.

Chapter 222-10 WAC State Environmental Policy Act Guidelines.

Chapter 222-12 WAC Policy and organization.

Chapter 222-16 WAC Definitions.

Chapter 222-20 WAC Application and notification procedures.

Chapter 222-22 WAC Watershed analysis.

Chapter 222-24 WAC Road construction and maintenance.

Chapter 222-30 WAC Timber harvesting.

Chapter 222-34 WAC Reforestation.

Chapter 222-38 WAC Forest chemicals.

Chapter 222-42 WAC Supplemental directives.

Chapter 222-46 WAC Consultation and enforcement.

Chapter 222-50 WAC Relationship to other laws and regulations.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-16-030 Water typing system. *The department in cooperation with the departments of fisheries, wildlife and ecology, and in consultation with affected Indian tribes shall classify streams, lakes and ponds and prepare stream classification maps showing the location of Type 1, 2, 3 and 4 Waters within the various forested areas of the state. Such maps shall be available for public inspection at region offices of the department. The waters will be classified using the following criteria. If a dispute arises concerning a water type the department shall make available informal conferences, which shall include the departments of fisheries, wildlife and ecology, and affected Indian tribes and those contesting the adopted water types. These conferences shall be established under procedures established in WAC 222-46-020.

*(1) "**Type 1 Water**" means all waters, within their ordinary high-water mark, as inventoried as "shorelines of the state" under chapter 90.58 RCW and the rules promulgated pursuant to chapter 90.58 RCW, but not including those waters' associated wetlands as defined in chapter 90.58 RCW.

***(2) "Type 2 Water"** shall mean segments of natural waters which are not classified as Type 1 Water and have a high fish, wildlife, or human use. These are segments of natural waters and periodically inundated areas of their associated wetlands, which:

(a) Are diverted for domestic use by more than 100 residential or camping units or by a public accommodation facility licensed to serve more than 100 persons, where such diversion is determined by the department to be a valid appropriation of water and the only practical water source for such users. Such waters shall be considered to be Type 2 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less;

(b) Are within a federal, state, local, or private campground having more than 30 camping units: *Provided*, That the water shall not be considered to enter a campground until it reaches the boundary of the park lands available for public use and comes within 100 feet of a camping unit, trail or other park improvement;

(c) Are used by substantial numbers of anadromous or resident game fish for spawning, rearing or migration. Waters having the following characteristics are presumed to have highly significant fish populations:

(i) Stream segments having a defined channel 20 feet or greater in width between the ordinary high-water marks and having a gradient of less than 4 percent.

(ii) Lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water.

(d) Are used by salmonids for off-channel habitat. These areas are critical to the maintenance of optimum survival of juvenile salmonids. This habitat shall be identified based on the following criteria:

(i) The site must be connected to a stream bearing salmonids and accessible during some period of the year; and

(ii) The off-channel water must be accessible to juvenile salmonids through a drainage with less than a 5% gradient.

***(3) "Type 3 Water"** shall mean segments of natural waters which are not classified as Type 1 or 2 Water and have a moderate to slight fish, wildlife, and human use. These are segments of natural waters and periodically inundated areas of their associated wetlands which:

(a) Are diverted for domestic use by more than 10 residential or camping units or by a public accommodation facility licensed to serve more than 10 persons, where such diversion is determined by the department to be a valid appropriation of water and the only practical water source for such users. Such waters shall be considered to be Type 3 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less;

(b) Are used by significant numbers of anadromous fish for spawning, rearing or migration. Waters having the following characteristics are presumed to have significant anadromous fish use:

(i) Stream segments having a defined channel of 5 feet or greater in width between the ordinary high-water marks; and having a gradient of less than 12 percent and not upstream of a falls of more than 10 vertical feet.

(ii) Ponds or impoundments having a surface area of less than 1 acre at seasonal low water and having an outlet to an anadromous fish stream.

(c) Are used by significant numbers of resident game fish. Waters with the following characteristics are presumed to have significant resident game fish use:

(i) Stream segments having a defined channel of 10 feet or greater in width between the ordinary high-water marks; and a summer low flow greater than 0.3 cubic feet per second; and a gradient of less than 12 percent.

(ii) Ponds or impoundments having a surface area greater than 0.5 acre at seasonal low water.

(d) Are highly significant for protection of downstream water quality. Tributaries which contribute greater than 20 percent of the flow to a Type 1 or 2 Water are presumed to be significant for 1,500 feet from their confluence with the Type 1 or 2 Water or until their drainage area is less than 50 percent of their drainage area at the point of confluence, whichever is less.

***(4) "Type 4 Water"** classification shall be applied to segments of natural waters which are not classified as Type 1, 2 or 3, and for the purpose of protecting water quality downstream are classified as Type 4 Water upstream until the channel width becomes less than 2 feet in width between the ordinary high-water marks. Their significance lies in their influence on water quality downstream in Type 1, 2, and 3 Waters. These may be perennial or intermittent.

***(5) "Type 5 Water"** classification shall be applied to all natural waters not classified as Type 1, 2, 3 or 4; including streams with or without well-defined channels, areas of perennial or intermittent seepage, ponds, natural sinks and drainageways having short periods of spring or storm runoff.

***(6) For purposes of this section:**

(a) "Residential unit" means a home, apartment, residential condominium unit or mobile home, serving as the principal place of residence.

(b) "Camping unit" means an area intended and used for:

(i) Overnight camping or picnicking by the public containing at least a fireplace, picnic table and access to water and sanitary facilities; or

(ii) A permanent home or condominium unit or mobile home not qualifying as a "residential unit" because of part time occupancy.

(c) "Resident game fish" means game fish as described in the Washington game code that spend their life cycle in fresh water. Steelhead, searun cutthroat and Dolly Varden trout are anadromous game fish and should not be confused with resident game fish.

(d) "Public accommodation facility" means a business establishment open to and licensed to serve the public, such as a restaurant, tavern, motel or hotel.

(e) "Natural waters" only excludes water conveyance systems which are artificially constructed and actively maintained for irrigation.

(f) "Seasonal low flow" and "seasonal low water" mean the conditions of the 7-day, 2-year low water situation, as measured or estimated by accepted hydrologic techniques recognized by the department.

(g) "Channel width and gradient" means a measurement over a representative section of at least 500 linear feet with at least 10 evenly spaced measurement points along the

normal stream channel but excluding unusually wide areas of negligible gradient such as marshy or swampy areas, beaver ponds and impoundments. Channel gradient may be determined utilizing stream profiles plotted from United States geological survey topographic maps.

(h) "Intermittent streams" means those segments of streams that normally go dry.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-16-035 Wetland typing system. *The department in cooperation with the departments of fisheries, wildlife, and ecology, and affected Indian tribes shall classify wetlands. The wetlands will be classified in order to distinguish those which require wetland management zones and those which do not. Wetlands which require wetland management zones shall be identified using the following criteria. Accurate delineation of wetlands in accordance with the manual shall be required only where necessary to determine whether replacement by substitution or enhancement is required pursuant to WAC 222-24-025(10) and shall be limited to the area of wetland proposed to be filled. For the purposes of determining acreage to classify or type wetlands under this section, approximate determination using aerial photographs and maps, including the national wetlands inventory, shall be sufficient. In addition, the innermost boundary of the wetland management zone on Type A or B wetlands may be determined by either of two methods: Delineation of the wetland edge, or identifying the point where the crown cover changes from less than 30% to 30% or more. Except where necessary to determine whether replacement by substitution or enhancement is required pursuant to WAC 222-24-025(10), accurate delineation shall not be required under this Title 222 WAC for activities regulated by these rules, including but not limited to the location of roads, landings, culverts, and cross drains. Landowners are encouraged to leave vegetation in these forested wetlands in undisturbed leave areas where possible. When so requested by any affected landowners, applicant or aggrieved person, the department shall make available informal conferences, which shall include the departments of fisheries, wildlife, and ecology, and affected Indian tribes and those contesting the adopted wetland types. These conferences shall be established under procedures established in WAC 222-46-020.

*(1) "**Nonforested wetlands**" means any wetland or portion thereof that has, or if the trees were mature would have, a crown closure of less than 30 percent.

(a) "**Type A Wetland**" classification shall be applied to all nonforested wetlands which:

(i) Are greater than 0.5 acre in size, including any acreage of open water where the water is completely surrounded by the wetland; and

(ii) Are associated with at least 0.5 acre of ponded or standing open water. The open water must be present on the site for at least 7 consecutive days between April 1 and October 1 to be considered for the purposes of these rules; or

(iii) Are bogs and fens greater than 0.25 acre.

(b) "**Type B Wetland**" classification shall be applied to all other nonforested wetlands greater than 0.25 acre.

*(2) "**Forested wetland**" means any wetland or portion thereof that has, or if the trees were mature would have, a crown closure of 30 percent or more.

AMENDATORY SECTION (Amending WSR 91-23-052, filed 11/15/91, effective 12/16/91)

WAC 222-16-060 Lands with a likelihood of future conversion. (1) Prior to identification of any forest lands as having a likelihood of future conversion to urban development within a ten-year period, the department shall consider all available information, including but not limited to:

(a) Whether the land is assessed under the provisions of chapter ((84-28,)) 84.33(7) or 84.34 RCW;

(b) Whether the land is excluded from any local improvement district;

(c) Whether the classification of the land in the local comprehensive plan or the local zoning ordinance permits or encourages long-term timber production;

(d) Whether the land lies outside the current or proposed boundary of a city or the urban growth boundary of a city or outside a water or sewer district;

(e) Whether the land has received previous development permit approval;

(f) The presence or absence of a written forest management plan for the land.

Any identification must be consistent with any local or regional land use plans or ordinances.

(2) A local government entity with jurisdiction or an affected Indian tribe may submit to the department a proposal for identification of forest lands that have the likelihood of future conversion to urban development within a ten-year period.

(3) The department may develop a public participation process when identifying forest lands with a likelihood of future conversion to urban development within a ten-year period.

(4) Forest lands that have been identified by the department prior to the effective date of this section as having a likelihood of future conversion to urban development within a ten-year period shall be reviewed under subsection (1) of this section to determine if the identification should be withdrawn or modified.

(5) A landowner that submits an application or notification in an area that has been identified as having a likelihood of future conversion to urban development within a ten-year period may request the department to reconsider the identification of the affected parcel. The department shall remove the identification if the landowner complies with (a) of this subsection and at least one from (b) or (c) of this subsection:

(a) The landowner submits a statement of intent not to convert to a use other than commercial timber operation for a period of ten years after completion of the forest practice. The statement shall be on a form prepared by the department and shall indicate the landowner is aware of the provisions of RCW 76.09.060 (3)(b); and

(b) The land is enrolled under the provisions of chapter 84.28, 84.33, or 84.34 RCW; or

(c) A written forest management plan for the land covering the next ten years has been reviewed and accepted by the department.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-010 Policy. *(1) Public resources may be adversely affected by the interaction of two or more forest practices. The purpose of this rule is to address these cumulative effects of forest practices on the public resources of fish, water, and capital improvements of the state or its political subdivisions. The long-term objective of this rule is to protect and restore these public resources and the productive capacity of fish habitat adversely affected by forest practices while maintaining a viable forest products industry. The board intends that this be accomplished through prescriptions designed to protect and allow the recovery of fish, water, and capital improvements of the state or its political subdivisions, through enforcement against noncompliance of the forest practice rules in this Title 222 WAC, and through voluntary mitigation measures. This system also allows for monitoring, subsequent watershed analysis, and adaptive management.

*(2) Adaptive management in a watershed analysis process requires advances in technology and cooperation among resource managers. The board finds that it is appropriate to promulgate rules to address certain cumulative effects by means of the watershed analysis system, while recognizing the pioneering nature of this system and the need to monitor its success in predicting and preventing adverse change to fish, water, and capital improvements of the state and its political subdivisions.

*(3) Many factors other than forest practices can have a significant effect on the condition of fish, water, and capital improvements of the state or its political subdivisions. Nonforest practice contributions to cumulative effects should be addressed by the appropriate jurisdictional authorities. When a watershed analysis identifies a potential adverse effect on fish, water, and capital improvements of the state or its political subdivisions from activities that are not regulated under chapter 76.09 RCW, the department should notify any governmental agency or Indian tribe having jurisdiction over those activities.

*(4) The rules in this chapter set forth a system for identifying the probability of change and the likelihood of this change adversely affecting specific characteristics of fish, water, and capital improvements of the state or its political subdivisions, and for using forest management prescriptions to avoid or minimize significant adverse effects from forest practices. The rules in this chapter are in addition to, and do not take the place of, the other forest practices rules in this Title 222 WAC.

*(5) These rules are intended to be applied and should be construed in such a manner as to minimize the delay associated with the review of individual forest practice applications and notifications by increasing the predictability of the process and the appropriate management response.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)**WAC 222-22-020 Watershed administrative units.**

*(1) For purposes of this chapter, the state is divided into areas known as watershed administrative units (WAUs). The department shall, in cooperation with the departments of ecology, fisheries, and wildlife, federally recognized Indian

tribes, local government entities, forest land owners, and the public, define WAUs throughout the state. The department shall identify WAUs on a map.

*(2) WAUs should generally be between 10,000 to 50,000 acres in size and should be discrete hydrologic units. The board recognizes, however, that identified watershed processes and potential effects on resource characteristics differ, and require different spatial scales of analysis, and the department's determination of the WAUs should recognize these differences. The board further recognizes that mixed land uses will affect the ability of a watershed analysis to predict probabilities and identify causation as required under this chapter, and the department's conduct and approval of a watershed analysis under this chapter shall take this effect into account.

*(3) The department is directed to conduct periodic reviews of the WAUs adopted under this chapter to determine whether revisions are needed to more efficiently assess potential cumulative effects. The department shall consult the departments of ecology, fisheries, and wildlife, affected Indian tribes, forest land owners, local government entities, and the public. From time to time and as appropriate, the department shall make recommendations to the board regarding revision of watershed administrative units.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)**WAC 222-22-030 Qualification of watershed resource analysts, specialists, and field managers.**

*(1) The department shall set the minimum qualifications for analysts participating in level 1 assessments conducted under WAC 222-22-050, for specialists participating in level 2 assessments conducted under WAC 222-22-060, and for field managers participating in recommendation of prescriptions under WAC 222-22-070. The minimum qualifications shall be specific for the disciplines needed to participate in level 1 and level 2 assessments and in the recommendations of prescriptions, and shall include, at a minimum, formal education in the relevant discipline and field experience. Minimum qualifications for analysts participating in level 2 assessments should typically include a graduate degree in the relevant discipline.

*(2) The department shall coordinate with relevant state and federal agencies, affected Indian tribes, forest land owners, local government entities, and the public to seek and utilize available qualified expertise to participate in watershed analysis.

*(3) Qualified analysts, specialists, and field managers shall, while and only for the purpose of conducting a watershed analysis or monitoring in a WAU, be duly authorized representatives of the department for the purposes of RCW 76.09.150.

*(4) An individual may qualify in more than one science or management skill. Qualification under subsection (1) of this section shall be effective for 5 years. When a qualification expires, a person requesting requalification shall meet the criteria in effect at the time of requalification.

*(5) The department shall provide and coordinate training for, maintain a register of, and monitor the performance of qualified analysts, specialists, and field managers by region. The department shall disqualify analysts, special-

ists, and field managers who fail to meet the levels of performance required by the qualification standards.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-040 Watershed prioritization. *(1) The department shall determine, by region, the order in which it will analyze WAUs. The department shall cooperate with the departments of ecology, wildlife, and fisheries, affected Indian tribes, forest land owners, and the public in setting priorities. In setting priorities or reprioritizing WAUs, the department shall consider the availability of participation and assistance that may be provided by affected Indian tribes and local government entities.

*(2) Except as set forth in subsection (3) of this section, the department shall undertake a watershed analysis on each WAU, in the order established under subsection (1) of this section.

*(3) The owner or owners of ten percent or more of the nonfederal forest land acreage in a WAU may notify the department in writing that the owner or owners intend to conduct a level 1 assessment, level 2 assessment, or both, and the prescription recommendation process on the WAU under this chapter at their own expense. The notice shall identify the teams proposed to conduct the watershed analysis, which shall be comprised of individuals qualified by the department pursuant to WAC 222-22-030. The department shall promptly notify any owner or owners sending notice under this subsection if any member of the designated teams is not so qualified. Within 30 days of delivering a notice to the department under this subsection, the forest land owner or owners shall begin the level 1 assessment under WAC 222-22-050 or, at its option, the level 2 assessment under WAC 222-22-060. An approved forest land owner team shall, while and only for the purposes of conducting a watershed analysis in a WAU, be a duly authorized representative of the department for the purposes of RCW 76.09.150. The board encourages forest land owners conducting assessments under this chapter to include available, qualified expertise from state and federal agencies, affected Indian tribes, forest land owners, local government entities, and the public.

*(4) Before beginning an analysis in a WAU, the department or the forest land owner conducting the analysis shall provide reasonable notice, including notice by regular United States mail where names and addresses have been provided to the department, to all forest land owners in the WAU, and to affected Indian tribes. The department or the forest land owner shall provide reasonable notice to the public and to state, federal, and local government entities, by, among other things, posting the notice conspicuously in the office of the departmental region containing the WAU. The notice shall be in a form designated by the department and give notice that an analysis is being conducted, by whose team, the time period of the analysis, and the dates and locations in which the draft analysis will be available for review and comment.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-050 Level 1 watershed resource assessment. *(1) To begin a watershed resource analysis on a WAU, the department shall assemble a level 1 assessment team consisting of analysts qualified under WAC 222-22-030(1). A forest land owner or owners acting under WAC 222-22-040(3) may assemble a level 1 assessment team consisting of analysts qualified under WAC 222-22-030(1) or, at its option, may begin the analysis under WAC 222-22-060. Each level 1 team shall include persons qualified in the disciplines indicated as necessary in the methodology, and should generally include persons qualified in:

- (a) Forestry;
- (b) Forest hydrology;
- (c) Forest soil science or geology;
- (d) Fisheries science; and
- (e) Geomorphology.

Any owner, and any cooperating group of owners, of ten percent or more of the nonfederal forest land acreage in the WAU and any affected Indian tribe shall be entitled to include one qualified individual to participate on the team at its own expense.

*(2) The level 1 team shall perform an inventory of the WAU utilizing the methodology, indices of resource condition, and checklists set forth in the manual in accordance with the following:

(a) The team shall survey the WAU for fish, water, and capital improvements of the state or its political subdivisions and shall display their location on a map of the WAU. The team shall determine the current condition of the resource characteristics of these resources, shall classify their condition as "good," "fair," or "poor," and shall display this information on the map of the WAU. The criteria used to determine current resource conditions shall include indices of resource condition, in addition to such other criteria as may be included in the manual. The indices will include two levels, which will distinguish between good, fair, and poor conditions.

(b) The team shall assess the likelihood that identified watershed processes in a given physical location will be adversely changed by one forest practice or by cumulative effects and that, as a result, a material amount of water, wood, sediment, or energy (e.g., affecting temperature) will be delivered to fish, water, or capital improvements of the state or its political subdivisions. (This process is referred to in this chapter as "adverse change and deliverability.") (For example, the team will address the likelihood that road construction will result in mass wasting and a slide that will in turn reach a stream.) The team shall rate this likelihood of adverse change and deliverability as "high," "medium," "low," or "indeterminate." Those likelihoods rated high, medium, or indeterminate shall be displayed on the map of the WAU.

(c) For each instance of high, medium, or indeterminate likelihood of adverse change and deliverability identified under (b) of this subsection, the team shall assess the vulnerability of potentially affected resource characteristics. Criteria for resource vulnerability shall include indices of resource condition as described in (a) of this subsection and quantitative means to assess the likelihood of material

adverse effects to resource characteristics caused by forest practices. (For example, the team will assess the potential damage that increased sediment caused by a slide reaching a stream will cause to salmon spawning habitat that is already in fair or poor condition.) The team shall rate this vulnerability "high," "medium," "low," or "indeterminate" and shall display those vulnerabilities on the map of the WAU. If there are no other criteria in the manual to assess vulnerability at the time of the assessment, current resource condition shall be used, with good condition equivalent to low vulnerability, fair condition equivalent to medium vulnerability, and poor condition equivalent to high vulnerability.

(d) The team shall identify as areas of resource sensitivity, as provided in table 1 of this section, the locations in which a management response is required under WAC 222-22-070(3) because, as a result of one forest practice or of cumulative effects, there is a combination of a high, medium, or indeterminate likelihood of adverse change and deliverability under (b) of this subsection and a low, medium, high, or indeterminate vulnerability of resource characteristics under (c) of this subsection:

Table 1
AREAS OF RESOURCE SENSITIVITY AND MANAGEMENT RESPONSE
Likelihood of Adverse Change and Deliverability

| | Low | Medium | High |
|--------|----------------|----------------------------|----------------------------|
| Low | Standard rules | Standard rules | Response: Prevent or avoid |
| Medium | Standard rules | Response: Minimize | Response: Prevent or avoid |
| High | Standard rules | Response: Prevent or avoid | Response: Prevent or avoid |

The team shall display the areas of resource sensitivity on the map of the WAU.

(e) The decision criteria used to determine low, medium, and high likelihood of adverse change and deliverability shall be as set forth in the manual. A low designation generally means there is minimal likelihood that there will be adverse change and deliverability. A medium designation generally means there is a significant likelihood that there will be adverse change and deliverability. A high designation generally means that adverse change and deliverability is more likely than not with a reasonable degree of confidence. Any areas identified as indeterminate in the level 1 assessment shall be classified for the purposes of the level 1 assessment as medium until a level 2 assessment is done on the WAU under WAC 222-22-060, during which the uncertainties shall be resolved.

(f) The team shall prepare a causal mechanism report regarding the relationships of each process identified in (b) and (c) of this subsection. The report shall demonstrate that the team's determinations were made in accordance with the manual. If, in the course of conducting a level 1 assessment, the team identifies areas in which voluntary corrective action will significantly reduce the likelihood of material, adverse effects to the condition of a resource characteristic, the team shall include this information in the report, and the department shall convey this information to the applicable land owner.

*(3) Within 21 days of mailing notice under WAC 222-22-040(4), the level 1 team shall submit to the department its draft level 1 assessment, which shall consist of the map of the WAU marked as set forth in this section and the causal mechanism report proposed under subsection (2)(f) of this section. If the level 1 team is unable to agree as to one or more resource sensitivities or potential resource sensitivities, or the causal mechanism report, alternative designations and an explanation therefor shall be included in the draft assessment. Where the draft level 1 assessment delivered to the department contains alternative designations, the department shall within 21 days of the receipt of the draft level 1 assessment make its best determination and approve that option which it concludes most accurately reflects the proper application of the methodologies, indices of resource condition, and checklists set forth in the manual.

*(4) If the level 1 assessment contains any areas in which the likelihood of adverse change and deliverability or resource vulnerability are identified as indeterminate under this section or if the level 1 methodology recommends it, the department shall assemble a level 2 assessment team under WAC 222-22-060 to resolve the uncertainties in the assessment, unless a forest land owner acting under WAC 222-22-040(3) has conducted a level 2 assessment on the WAU.

*(5) Pending the completion of the level 2 assessment, if any, on the WAU, the department shall select interim prescriptions using the process and standards described in WAC 222-22-070 (1), (2), and (3) and 222-22-080(3) and shall apply them to applications and notifications as provided in WAC 222-22-090 (1) and (2). Before submitting recommended interim prescriptions to the department, the field managers' team under WAC 222-22-070(1) shall review the recommended prescriptions with available representatives of the jurisdictional management authorities of the fish, water, and capital improvements of the state or its political subdivisions in the WAU, including, but not limited to, the departments of fisheries, ecology, and affected Indian tribes.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-060 Level 2 watershed resource assessment. *(1) The department, or forest land owner acting under WAC 222-22-040(3), may assemble a level 2 assessment team either, in the case of a forest land owner, to begin a watershed analysis or to review the level 1 assessment on a WAU. The level 2 team shall consist of specialists qualified under WAC 222-22-030(1). Each level 2 team shall include persons qualified in the disciplines indicated as necessary in the methodology, and should generally include persons qualified in:

- (a) Forestry;
- (b) Forest hydrology;
- (c) Forest soil science or geology;
- (d) Fisheries science; and
- (e) Geomorphology.

Any owner, and any cooperating group of owners, of ten percent or more of the nonfederal forest land acreage in the WAU and any affected Indian tribe shall be entitled to designate one qualified member of the team at its own expense.

*(2) The level 2 team shall perform an assessment of the WAU utilizing the methodology, indices of resource condition, and checklist set forth in the manual in accordance with the following:

(a) If a level 1 assessment has not been conducted under WAC 222-22-050, the assessment team shall complete the tasks required under WAC 222-22-050(2), except that the level 2 team shall not rate any likelihood of adverse change and deliverability or resource vulnerability as indeterminate.

(b) If the level 2 team has been assembled to review a level 1 assessment, the level 2 team shall, notwithstanding its optional review of all or part of the level 1 assessment, review each likelihood of adverse change and deliverability and resource vulnerability rated as indeterminate and shall revise each indeterminate rating to low, medium, or high and shall revise the map of the WAU accordingly.

*(3) Within 60 days of mailing notice under WAC 222-22-040(4) where a watershed analysis begins with a level 2 assessment or within 60 days of beginning a level 2 assessment after completion of a level 1 assessment, the level 2 team shall submit to the department its draft level 2 assessment, which shall consist of the map of the WAU and the causal mechanism report.

*(4) The level 2 team shall endeavor to produce a consensus report. If the level 2 team is unable to agree as to one or more areas of resource sensitivity or the causal mechanism report, alternative designations and an explanation therefor shall be included in the draft assessment. Where the draft level 2 assessment delivered to the department contains alternative designations or reports, the department shall within 30 days of the receipt of the draft level 2 assessment make its best determination and approve that option which it concludes most accurately reflects the proper application of the methodologies, indices of resource condition, and checklists set forth in the manual.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-070 Prescription recommendation.

*(1) For each WAU for which a watershed analysis is undertaken, the department, or forest land owner acting under WAC 222-22-040(3), shall assemble a team of field managers qualified under WAC 222-22-030(1). The team shall include persons qualified in the disciplines indicated as necessary in the methodology, and shall generally include persons qualified in:

- (a) Forest resource management;
- (b) Forest harvest and road systems engineering;
- (c) Forest hydrology; and
- (d) Fisheries science or management.

Any owner, and any cooperating group of owners, of ten percent or more of the nonfederal forest land acreage in the WAU and any affected Indian tribe shall be entitled to include one qualified individual to participate on the team at its own expense.

*(2) Each forest land owner in a WAU shall have the right to submit to the department or the forest land owner conducting the watershed analysis prescriptions for areas of resource sensitivity on its land. If these prescriptions are received within the time period described in subsection (4)

of this section, they shall be considered for inclusion in the watershed analysis.

*(3) For each identified area of resource sensitivity, the field managers' team shall, in consultation with the level 1 and level 2 teams, if any, select and recommend to the department prescriptions. These prescriptions shall be reasonably designed to minimize, or to prevent or avoid, as set forth in table 1 in WAC 222-22-050 (2)(d), the likelihood of adverse change and deliverability that has the potential to cause a material, adverse effect to resource characteristics in accordance with the following:

(a) The prescriptions shall be designed to provide forest land owners and operators with as much flexibility as is reasonably possible while addressing the area of resource sensitivity. The prescriptions should, where appropriate, include, but not be limited to, plans for road abandonment, orphaned roads, and road maintenance and plans for applying prescriptions to recognized land features identified in the WAU as areas of resource sensitivity but not fully mapped;

(b) Each set of prescriptions shall provide for an option for an alternate plan under WAC 222-12-040, which the applicant shows meets or exceeds the protection provided by the other prescriptions approved for a given area of resource sensitivity; and

(c) The regulation of forest practices and cumulative effects under this chapter shall not require mitigation for activities or events not regulated under chapter 76.09 RCW. Any hazardous condition subject to forest practices identified in a watershed analysis requiring corrective action shall be referred to the department for consideration under RCW 76.09.300 et seq.

*(4) The field managers' team shall submit the recommended prescriptions to the department within 30 days of the submission to the department of the level 2 assessment under WAC 222-22-060 or within 21 days of the submission to the department of the level 1 assessment under WAC 222-22-050.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-080 Approval of watershed analysis.

*(1) Upon receipt of the recommended prescriptions resulting from a level 2 assessment under WAC 222-22-060 or a level 1 assessment under WAC 222-22-050 where a level 2 assessment will not be conducted, the department shall select prescriptions. The department shall circulate the draft watershed analysis to the departments of ecology, fisheries, and wildlife, affected Indian tribes, local government entities, forest land owners in the WAU, and the public for review and comment. The prescriptions recommended by the field managers' team shall be given substantial weight. Within thirty days of receipt of the prescriptions, the department shall review comments, revise the watershed analysis as appropriate, and approve or disapprove the watershed analysis for the WAU.

*(2) The department should notify any governmental agency or Indian tribe having jurisdiction over activities which are not regulated under chapter 76.09 RCW but which are identified in the draft analysis as having a potential for an adverse impact on identified fish, water, and capital improvements of the state or its political subdivisions.

*(3) The department shall approve the draft watershed analysis unless it finds:

(a) For any level 1 assessment or level 2 assessment, that:

(i) The team failed in a material respect to apply the methodology, indices of resource condition, or checklists set forth in the manual; or

(ii) A team meeting the criteria promulgated by the department and using the defined methodologies, indices of resource conditions, and checklists set forth in the manual could not reasonably have come to the conclusions identified in the draft level 1 or level 2 assessment; and

(b) For the prescriptions, that they will not accomplish the purposes and policies of this chapter and of the Forest Practices Act, chapter 76.09 RCW.

(c) In making its findings under this subsection, the department shall take into account its ability to revise assessments under WAC 222-22-090(3).

*(4) If the department does not approve the draft watershed analysis, it shall set forth in writing a detailed explanation of the reasons for its disapproval.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-090 Use and review of watershed analysis. *(1) Where a watershed analysis has been completed for a WAU under this chapter:

(a) Forest practices applications and notifications submitted to the department shall indicate whether an area of resource sensitivity will be affected and, if so, which prescription the operator, timber owner, or forest land owner shall use in conducting the forest practice in the area of resource sensitivity;

(b) The department shall assist operators, timber owners, and forest land owners in obtaining governmental permits required for the prescription (see WAC 222-50-020 and 222-50-030);

(c) The department shall confirm that the prescription selected under (a) of this subsection was one of the prescriptions approved for the area of resource sensitivity under WAC 222-22-080 and shall require the use of the prescription; and

(d) The department shall not further condition forest practice applications and notifications in an area of resource sensitivity in a WAU where the applicant will use a prescription contained in the watershed analysis nor shall the department further condition forest practice applications and notifications outside an area of resource sensitivity in a WAU, except for reasons other than the watershed processes and fish, water, and capital improvements of the state or its political subdivisions analyzed in the watershed analysis in the WAU, and except to correct mapping errors, misidentification of soils, landforms, vegetation, or stream features, or other similar factual errors.

*(2) Pending completion of a watershed analysis for a WAU, the department shall process forest practices notifications and applications in accordance with the other chapters of this title, except that applications and notifications received for forest practices on a WAU after the date notice is mailed under WAC 222-22-040(4) commencing a watershed analysis on the WAU shall be conditioned to

require compliance with interim, draft, and final prescriptions, as available. Processing and approval of applications and notifications shall not be delayed by reason of review, approval, or appeal of a watershed analysis.

*(3) The board encourages cooperative and voluntary monitoring. Evaluation of resource conditions may be conducted by qualified specialists, analysts, and field managers as determined under WAC 222-22-030. Subsequent watershed analysis and management strategies in response to areas where recovery is not occurring shall be conducted in accordance with this chapter.

*(4) Where the condition of resource characteristics in a WAU are fair or poor, the department shall evaluate the effectiveness of the prescriptions applied under this chapter to the WAU in providing for the protection and recovery of the resource characteristic. If the department finds that the prescriptions are not providing for such protection and recovery over a period of 3 years, the department shall repeat the watershed analysis in the WAU. Aside from the foregoing, once a watershed analysis is completed on a WAU, it shall be revised in whole or in part upon the earliest of the following to occur:

(a) Five years after the date the watershed analysis is final, if necessary;

(b) The occurrence of a natural disaster having a material adverse effect on the resource characteristics of the WAU;

(c) Deterioration in the condition of a resource characteristic in the WAU measured over a 12-month period or no improvement in a resource characteristic in fair or poor condition in the WAU measured over a 12-month period unless the department determines, in cooperation with the departments of ecology, wildlife, and fisheries, affected Indian tribes, forest land owners, and the public, that a longer period is reasonably necessary to allow the prescriptions selected to produce improvement; or

(d) The request of an owner of forest land in the WAU which wishes to conduct a watershed analysis at its own expense.

Revision of an approved watershed analysis shall be conducted in accordance with the processes, methods, and standards set forth in this chapter, except that the revised watershed analysis shall be conducted only on the areas affected in the case of revisions under (b) or (c) of this subsection, and may be conducted on areas smaller than the entire WAU in the case of revisions under (a) and (d) of this subsection. The areas on which the watershed analysis revision is to be conducted shall be determined by the department and clearly delineated on a map before beginning the assessment revision. Forest practices shall be conditioned under the current watershed analysis pending the completion of any revisions.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-22-100 Application review prior to watershed analysis. *(1) The watershed analysis system established in this chapter is a principal methodology for assessing the effects on fish, water, and capital improvements of the state or its political subdivisions of two or more forest practices. Recognizing that it will not be possible to

achieve state-wide implementation of the analysis process for all WAUs for some time, the board hereby establishes certain interim regulatory measures pending watershed analysis on a given WAU. These measures are designed to ensure use of the best available analysis techniques and existing authorities to protect fish, water, and capital improvements of the state or its political subdivisions.

*(1) The department shall continue to use its implementation and enforcement authority to prevent damage to fish, water, and capital improvements of the state or its political subdivisions. See chapter 222-46 WAC.

(a) The department shall continue to concentrate and exercise its authority in implementing the use of existing road construction, maintenance, and abandonment rules where there is evidence of road-related damage to fish, water, and capital improvements of the state or its political subdivisions. The applicable road construction and maintenance rules can be found in chapter 222-24 WAC.

(b) The department shall report to the board each quarter the results of its road construction, maintenance, and abandonment enforcement program. No later than October 31 of each year, the board shall report on results and recommendations for regulatory change as needed to protect fish, water, and capital improvements of the state or its political subdivisions.

*(2) The department shall condition the size of clearcut harvest applications in the significant rain-on-snow zone where the department determines, using local evidence, that peak flows have resulted in material damages to public resources. The department may prepare conditioning guidelines to assess and condition applications located in a significant rain-on-snow zone.

(a) Each year not later than August 31, the department shall provide a summary report of actions taken under rain-on-snow conditioning or conditioning guidelines to the appropriate board committee.

(b) Such conditioning authority shall expire upon completion of watershed analysis in a WAU.

(c) Nothing in this section shall require a watershed analysis to develop harvest size recommendations.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-24-010 Policy((#)). *(1) A well designed, located, constructed, and maintained system of forest roads is essential to forest management and protection of the public resources. Riparian areas contain some of the more productive conditions for growing timber, are heavily used by wildlife and provide essential habitat for fish and wildlife and essential functions in the protection of water quality. Wetland areas serve several significant functions in addition to timber production: Providing fish and wildlife habitat, protecting water quality, moderating and preserving water quantity. Wetlands may also contain unique or rare ecological systems.

*(2) All road and landing construction within wetlands shall be conducted so that choices are made in the following descending order of preference:

(a) Avoid impacts by selecting the least environmentally damaging landing location, road location and road length; or

(b) Minimize impacts by such things as reducing the subgrade width, fill acreage and spoil areas; or

(c) Restore affected areas by removing temporary fills or road sections upon the completion of the project; or

(d) Reduce or eliminate impacts over time by preserving or maintaining areas; or

(e) Replace affected areas by creating new wetlands or enhancing existing wetlands.

*(3) An accurate delineation of wetland boundaries shall not be required under this section except where necessary to determine acreage of road or landing construction which fills or drains more than 0.5 acre of a wetland. Landowners are encouraged to voluntarily increase wetland acreage and functions over the long-term.

*(4) Extra protection is required during road construction and maintenance to protect these resources and timber growing potential. Landowners and fisheries and wildlife managers are encouraged to cooperate to develop road management and abandonment plans. Landowners are further encouraged to cooperate in sharing roads to minimize road mileage and avoid duplicative road construction.

*(5) This section covers the location, design, construction, maintenance and abandonment of forest roads, bridges, stream crossings, quarries, borrow pits, and disposal sites used for forest road construction and is intended to assist landowners in proper road planning, construction and maintenance so as to protect public resources.

(Note: Other laws and regulations and/or permit requirements may apply. See chapter 222-50 WAC.)

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-24-025 Road design. (1) Use the minimum design standard that produces a road sufficient to carry the anticipated traffic load with reasonable safety.

*(2) **Subgrade width** should average not more than 32 feet for double lane roads and 20 feet for single lane roads, exclusive of ditches, plus any additional width necessary for safe operations on curves and turnouts. Where road location in wetlands is unavoidable (see WAC 222-24-010(2)), minimize subgrade width.

(3) **Balance excavation** and embankments so that as much of the excavated material as is practical will be deposited in the roadway fill sections. Where full bench construction is necessary, design suitable embankments so that the excavated material may be end hauled to appropriate deposit areas.

(4) **Design or construct** cut and fill slopes to the normal angle of repose for the materials involved, or at a lesser angle whenever practical.

*(5) **All roads** should be outloped or ditched on the uphill side and appropriate surface drainage shall be provided by the use of adequate cross drains, ditches, drivable dips, relief culverts, water bars, diversion ditches, or other such structures demonstrated to be equally effective.

*(6) **Cross drains**, relief culverts, and diversion ditches shall not discharge onto erodible soils, or over fill slopes unless adequate outfall protection is provided.

*(7) **Install** cross drains, culverts, water bars, drivable dips, or diversion ditches on all forest roads to minimize erosion of the road bed, cut bank, and fill slope, or to reduce

sedimentation of Type 1, 2, 3 or 4 Water. Cross drains are required in wetlands to provide for continued hydrologic connectivity. These drainage structures shall be installed at all natural drainages, all low points in the road gradient and spaced no wider than as follows:

| Grade | Distance Westside | Distance Eastside |
|-----------|----------------------|----------------------|
| 0 to 7% | 1,000 ft. | 1,500 ft. |
| 8% to 15% | 800 ft. | 1,000 ft. |
| over 15% | 600 ft. | 800 ft. |

More frequent culvert spacing or other drainage improvements are required where site specific evidence of peak flows or soil instability makes additional culverts necessary to minimize erosion of the road bed, ditches, cut bank, and fill slope to reduce sedimentation of Type 1, 2, 3 or 4 Waters, or within wetlands or to avoid unreasonable risk to public resources. See ((~~Part 5, Table 2 in the forest practices board manual for~~)) "Additional culvert spacing recommendations(-)" in the forest practices board manual. On request of the applicant, the department may approve less frequent drainage spacing where parent material (e.g. rock, gravel) or topography justify.

*** (8) Relief culverts** installed on forest roads shall meet the following minimum specifications:

(a) Be at least 18 inches in diameter or equivalent in western Washington and 15 inches in diameter or equivalent in eastern Washington.

(b) Be installed sloping toward the outside edge of the road at a minimum gradient of 3 percent.

*** (9) Ditch diversion.** Where roadside ditches slope toward a Type 1, 2, 3 Water, or Type A or B Wetland for more than 300 feet and otherwise would discharge into the stream or wetland, divert the ditchwater onto the forest floor by relief culvert or other means at the first practical point.

*** (10) Filling or draining** more than 0.5 acre of a wetland requires replacement by substitution or enhancement of the lost wetland functions and, for creation of new wetlands, area. See the Board Manual. Where creation of new wetlands is proposed, the objective of successful replacement by substitution of lost wetland area shall be on an acre for acre basis and of the same type and in the same general location. Where replacement by enhancement of wetlands is proposed, the objective shall be to provide for an equivalent amount of function to replace that which is lost.

AMENDATORY SECTION (Amending WSR 92-23-056, filed 11/17/92, effective 12/18/92)

WAC 222-24-040 Water crossing structures. *** (1) Bridge construction.**

(a) Bridges are required for new crossings of any Type 1 or 2 Waters regularly used for recreational boating.

(b) Permanent bridges shall not constrict clearly defined channels and shall be designed to pass the 50-year flood level or the road shall be constructed to provide erosion protection from the 50-year flood waters which exceed the water-carrying capacity of the drainage structure.

(c) One end of each new permanent log or wood bridge shall be tied or firmly anchored if any of the bridge structure is within 10 vertical feet of the 50-year flood level.

(d) Excavation for bridges, placement of sills or abutments, and the placement of stringers or girders shall be accomplished from outside the ordinary high-water mark of all waters, except when such operations are authorized by a hydraulic project approval.

(e) Earth embankments constructed for use as bridge approaches shall be protected from erosion by high water. Some examples of protection are: Planted or seeded ground cover, bulkheads, rock riprap, or retaining walls.

(f) When earthen materials are used for bridge surfacing, curbs of sufficient size shall be installed to be above the surface material and prevent such surface material from falling into the stream bed.

*** (2) Culvert installation:** All permanent culverts installed in forest roads shall be of a size that is adequate to carry the 50-year flood or the road shall be constructed to provide erosion protection from the 50-year flood waters which exceed the water-carrying capacity of the drainage structure. Refer to ((~~Part 5~~)) "Recommended culvert sizes" in the forest practices board manual for the size of permanent culverts recommended for use in forest roads. If the department determines that because of unstable slopes the culvert size shown on that table is inadequate to protect public resources, it may require culvert sizes in accordance with the nomograph (chart) contained in ((~~Part 5 of~~)) the forest practices board manual or with other generally accepted engineering principles.

(a) No permanent culverts shall be installed that are smaller than:

(i) 24 inches in diameter or the equivalent for anadromous fish streams or wetlands where anadromous fish are present.

(ii) 18 inches or the equivalent for resident game fish streams.

(iii) 18 inches or the equivalent for all other water or wetland crossings in western Washington.

(iv) 15 inches or the equivalent for all other water or wetland crossings in eastern Washington.

(b) The alignment and slope of the culvert shall parallel the natural flow of the stream whenever possible.

(c) When fish life is present, construct the bottom of the culvert at or below the natural stream bed at the inlet and outlet.

(d) Terminate culverts on materials that will not readily erode, such as riprap, the original stream bed (if stable), or other suitable materials.

(e) If water is diverted from its natural channel, return this water to its natural stream bed via culvert, flume, spillway, or the equivalent.

(f) When flumes, downspouts, downfall culverts, etc., are used to protect fill slopes or to return water to its natural courses, the discharge point shall be protected from erosion by: (i) Reducing the velocity of the water, (ii) use of rock spillways, (iii) riprap, (iv) splash plates, or (v) other methods or structures demonstrated to be equally effective.

(g) Stream beds shall be cleared for a distance of 50 feet upstream from the culvert inlet of such slash or debris that reasonably may be expected to plug the culvert.

(h) The entrance of all culverts should have adequate catch basins and headwalls to minimize the possibility of erosion or fill failure.

***(3) Culverts in anadromous fish streams.** In addition to the requirements of subsection (2) of this section, in streams used by anadromous fish:

(a) Culverts shall be either open bottomed or have the bottom covered with gravel and installed at least 6 inches below the natural stream bed at the inlet and outlet.

(b) Closed bottom culverts shall not slope more than 1/2 percent; except as provided in (e) of this subsection; open bottom culverts shall not slope more than the natural slope of the stream bed.

(c) Where multiple culverts are used, one culvert shall be at least 6 inches lower than the other(s).

(d) Culverts shall be set to retain normal stream water depth throughout the culvert length. A downstream control may be required to create pooled water back into the culvert and to insure downstream stream bed stability.

(e) Closed bottom culverts, set at existing stream gradients between 1/2 percent and 3 percent slope shall be designed with baffles for water velocity control, or have an approved designed fishway.

(f) The department, after consultation with the departments of fisheries and wildlife, shall impose any necessary limitations on the time of year in which such culverts may be installed to prevent interference with migration or spawning of anadromous fish.

(g) Any of the requirements in (a) through (f) of this subsection may be superseded by a hydraulic project approval.

***(4) Temporary water crossings.**

(a) Temporary bridges and culverts, adequate to carry the highest anticipated flow in lieu of carrying the 50-year flood, may be used:

(i) In the westside region if installed after June 1 and removed by September 30 of the same year.

(ii) In the eastside region if installed after the spring runoff and removed prior to the snow buildup which could feed a heavy runoff.

(iii) At other times, when the department and applicant can agree to specific dates of installation and removal.

(b) Temporary bridges and culverts shall be promptly removed upon completion of use, and the approaches to the crossing shall be water barred and stabilized at the time of the crossing removal.

(c) Temporary wetland crossings shall be abandoned and restored based on a written plan approved by the department prior to construction.

(5) Properly prepared and maintained fords may be used during periods of low water providing a hydraulic permit is acquired.

AMENDATORY SECTION (Amending Order 535, filed 11/16/87, effective 1/1/88)

WAC 222-34-030 Reforestation—Plans—Reports—Inspections. (1) **Reforestation plans.** Reforestation plans must be submitted with the application or notification except where no reforestation is required. The department shall designate difficult regeneration areas utilizing silvicultural information. When a forest practice is proposed for such an area, the department may require additional information regarding harvest systems and post harvest site preparation, as well as regeneration. The department shall approve the

reforestation plan for difficult regeneration areas if it determines that such a plan will achieve acceptable stocking according to WAC 222-34-010 and 222-34-020.

(2) **Reforestation reports.** The landowner, forest landowner, or his/her designee shall file a report with the department either at the time of completion of planting or reforestation or at the end of the normal planting season. When artificial seeding is used the report shall be filed 2 growing seasons after seeding.

(3) **The reports in subsection (2) of this section must contain at least the following:**

(a) The original forest practice application or notification number.

(b) Species reforested, planted, or seeded.

(c) Age of stock planted or seed source zone.

(d) Description of actual area reforested, planted, or seeded.

(4) **Inspection; supplemental planting or reforestation directives.**

(a) Within 12 months after a reforestation report is received, the department shall inspect the reforested lands. The department shall issue written notice to the landowner, forest landowner, or his/her designee stating whether supplemental planting or reforestation or further inspection is required within 30 days after the deadline for inspection or the reforestation shall be deemed satisfactory.

(b) If the inspection shows that acceptable stocking levels have not been achieved, the department shall direct the forest landowner to perform supplemental planting in accordance with the planting standards of WAC 222-34-010 (3) and (4)(a)(ii), 222-34-020 (3) and (4)(a)(ii): *Provided, That:*

(i) In lieu of such supplemental planting, the department and the forest landowner may agree on a supplemental reforestation plan.

(ii) Supplemental planting or reforestation shall not be required where in the opinion of the department planting or reforestation is not feasible due to rocky ground, dry conditions, excessively high water table or other adverse site factors and the department determines that there is little probability of significantly increasing the stocking level.

(iii) Where supplemental planting or reforestation has been required by the department, the landowner, forest landowner, or his/her designee shall file a report of supplemental planting or reforestation upon completion.

(iv) Except where stocking improvement is necessary to protect public resources and is feasible, further supplementary planting shall not be required where acceptable stocking levels have not been achieved after two properly performed supplemental plantings.

(c) Within 12 months after a supplemental planting or reforestation report is received, the department shall inspect the reforested lands.

(d) **Evidence of compliance.** The department shall within 30 days after the deadline for inspection or reinspection and when requested by the forest landowner confirm in writing whether acceptable stocking levels have been achieved, provided field conditions do not prevent the department from properly evaluating the reforestation.

(e) Where a natural regeneration plan has been approved by the department, the department may allow up to 10 years to achieve acceptable stocking levels.

**Chapter 222-46 WAC
CONSULTATION AND ENFORCEMENT**

AMENDATORY SECTION (Amending Order 263, filed 6/16/76)

WAC 222-46-010 Policy—Enforcement. It is the policy of the act and the board to encourage informal, practical, result-oriented resolution of alleged violations and actions needed to prevent damage to public resources. It is also the policy of the act and the board to provide, consistent with the principles of due process, effective procedures for enforcement. It is the policy of the board to use a progressive approach to enforcement, and civil penalties should be one of the least used enforcement mechanisms; such an approach usually begins with consultation and voluntary efforts to achieve compliance while generally reserving civil penalties to more serious infractions. This part of these regulations provides the following enforcement procedures: Informal conferences; notices to comply; stop work orders; corrective actions by the department; civil penalties; injunctions and other civil judicial relief; and criminal penalties. ~~((The enforcement procedure used in any particular case shall be appropriate in view of the nature and extent of the violation or the damage or risk to public resources and the degree of bad faith or good faith of the persons charged.))~~ Civil penalties shall be appropriate to the violation or its potential to damage public resources.

AMENDATORY SECTION (Amending WSR 93-12-001, filed 5/19/93, effective 6/19/93)

WAC 222-46-020 Informal conferences. (1) **Opportunity mandatory.** The department shall afford the operator and/or ~~((his/her))~~ a designated representative reasonable opportunities to discuss proposed enforcement actions at an informal conference prior to taking further enforcement action, unless the department determines that there may be imminent damages to the public resource. Informal conferences may be used at any stage in enforcement proceedings, except that the department may refuse to conduct informal conferences with respect to any matter then pending before the appeals board or a court.

(2) **Reports required.** Department personnel in attendance at informal conferences shall keep written notes of the date and place of the conference, the persons in attendance, the subject matter discussed, and any decisions reached with respect to further enforcement action. Copies of the conference notes shall be forwarded to the landowner and the timber owner.

(3) **Records available.** Copies of written notes shall be sent to each participant in the conference, be kept in the department files until one year after final action on the application involved, and be open to public inspection.

(4) **Local government entity conditions.** If the proposed enforcement actions involve conditions imposed pursuant to WAC 222-20-040(3), then the local government entity shall be involved in the informal conference.

AMENDATORY SECTION (Amending WSR 91-23-052, filed 11/15/91, effective 12/16/91)

WAC 222-46-030 Notice to comply. If a violation, a deviation, material damage or potential for material damage to a public resource has occurred and the department determines that a stop work order is unnecessary, then the department shall issue and serve upon the operator and/or landowner a notice which will clearly set forth:

(1)(a) **The specific** nature, extent, and time of failure to comply with the approved application; or identifying the damage or potential damage; and/or

(b) The relevant provisions of the Forest Practices Act or of the forest practices regulations relating thereto;

(2) **The right** of the operator ~~((or))~~ landowner, or timber owner to a hearing before the department; and

(3) **The specific** course of action ordered by the department to be followed by the operator to correct such failure to comply and to prevent, correct and/or compensate for material damage to public resources which resulted from any violation, unauthorized deviation, or willful or negligent disregard for potential damage to a public resource; and/or those courses of action necessary to prevent continuing damage to public resources where the damage is resulting from the forest practice activities but has not resulted from any violation, unauthorized deviation, or negligence.

(4) **Local government entity conditions.** If the notice to comply involves a condition imposed pursuant to WAC 222-20-040(3), then the specific course of action ordered by the department shall include a requirement that the operator obtain approval of the local government entity of the action to be taken.

(5) **The department** shall mail a copy ~~((thereof))~~ of the notice to comply to the forest landowner and the timber owner at the addresses shown on the application, showing the date of service upon the operator. The department shall also mail a copy to the local government entity if a condition imposed pursuant to WAC 222-20-040(3) is involved.

Such notice to comply shall become a final order of the department: *Provided*, That no direct appeal to the appeals board will be allowed from such final order. Such operator shall undertake the course of action so ordered by the department unless, within fifteen days after the date of service of such notice to comply, the operator, forest landowner, or timber owner, shall request the department in writing to schedule a hearing. If so requested, the department shall schedule a hearing on a date not more than twenty days after receiving such request. The local government entity shall participate in the hearing if a condition imposed pursuant to WAC 222-20-040(3) is involved. Within ten days after such hearing, the department shall issue a final order either withdrawing its notice to comply or clearly setting forth the specific course of action to be followed by such operator. Such operator shall undertake the course of action so ordered by the department unless within thirty days after the date of such final order, the operator, forest landowner, or timber owner appeals such final order to the appeals board. No person shall be under any obligation under this section to prevent, correct, or compensate for any damage to public resources which occurs more than one year after the date of completion of the forest practices operations involved exclusive of reforestation,

unless such forest practices were not conducted in accordance with forest practices rules and regulations: *Provided*, That this provision shall not relieve the forest landowner from any obligation to comply with forest practices rules and regulations pertaining to providing continuing road maintenance. No action to recover damages shall be taken under this section more than two years after the date the damage involved occurs.

AMENDATORY SECTION (Amending WSR 91-23-052, filed 11/15/91, effective 12/16/91)

WAC 222-46-040 Stop work orders. (1) **The department** shall have the authority to serve upon an operator a stop work order which shall be a final order of the department if:

(a) There is any violation of the provisions of the Forest Practices Act or these regulations; or

(b) There is a deviation from the approved application; or

(c) Immediate action is necessary to prevent continuation of or to avoid material damage to a public resource.

(2) **The stop work order** shall set forth:

(a) The specific nature, extent, and time of the violation, deviation, damage, or potential damage;

(b) An order to stop all work connected with the violation, deviation, damage, or potential damage;

(c) The specific course of action needed to correct such violation or deviation or to prevent damage and to correct and/or compensate for damage to public resources which has resulted from any violation, unauthorized deviation, or willful or negligent disregard for potential damage to a public resource ~~(; and)~~. The stop work order shall also set forth those courses of action necessary to prevent continuing damage to public resources where the damage is resulting from the forest practice activities but has not resulted from any violation, unauthorized deviation, or negligence. If the stop work order involves a condition imposed pursuant to WAC 222-20-040(3), then the specific course of action ordered by the department shall include a requirement that the operator obtain approval of the local government entity of the action to be taken.

(d) The stop work order shall also set forth the right of the operator to a hearing before the appeals board.

The department shall immediately file a copy of such order with the appeals board and mail a copy thereof to the timber owner and forest landowner at the addresses shown on the application. The department shall also mail a copy to the local government entity if a condition imposed pursuant to WAC 222-20-040(3) is involved.

The operator, timber owner, or forest landowner may commence an appeal to the appeals board within fifteen days after service upon the operator. If such appeal is commenced, a hearing shall be held not more than twenty days after copies of the notice of appeal were filed with the appeals board. Such proceeding shall be a contested case within the meaning of chapter 34.05 RCW.

The operator shall comply with the order of the department immediately upon being served, but the appeals board if requested shall have authority to continue or discontinue in whole or in part the order of the department under such

conditions as it may impose pending the outcome of the proceeding.

AMENDATORY SECTION (Amending Order 263, filed 6/16/76)

WAC 222-46-060 Civil penalties. (1) **Amount of penalty.** Every person who ~~((fails to comply with))~~ violates any provisions of RCW 76.09.010 through 76.09.280 ((as now or hereafter amended or the Forest Practices Act)) or of the forest practices ((regulations)) rules adopted pursuant thereto, or who converts forest land to a use other than commercial timber operation within three years after completion of the forest practice without the consent of the county, city, or town, shall be subject to a penalty in an amount of not more than ~~((five hundred))~~ ten thousand dollars (((\$500.00)) for each such violation. Each and every such violation shall be a separate and distinct violation. In case of a failure to comply with a ~~((notice pursuant to RCW 76.09.090 as now or hereafter amended or a))~~ stop work order, every day's continuance thereafter shall be a separate and distinct violation.

(2) **Penalty assessments** shall consider the following:

(a) Repairability of the adverse effect from the violation;

(b) Whether the violation of the act or rules was intentional;

(c) Cooperation with the department;

(d) Previous violation history;

(e) Severity of the impact or the potential for material damage to public resources; and

(f) The extent to which a penalty to be imposed on a forest landowner for a forest practice violation committed by another should be reduced because the owner was unaware of the violation and did not receive substantial economic benefits from the violation.

(3) **Calculation of penalty.** The department shall evaluate any violation to determine if a civil penalty is warranted. When penalties are to be assessed they shall be calculated using the following process:

(a) Determine the base penalty; see WAC 222-46-065.

(b) The penalty may be adjusted using factors specific to the incident and the site. The following additional factors will be independently considered and added to the base penalty to calculate the civil penalty:

(i) Repairability:

Repairability shall be based on the length of time natural restoration or implementation of a restoration plan will take and whether repair can be achieved. The penalty will be substantially increased when natural restoration will not occur within three years and the damage cannot be effectively corrected. For this factor, up to double the base penalty may be added to the penalty.

(ii) Intention:

In making a determination of intent, the department shall consider, but not be limited to, the following considerations: The foreseeability of the violation; whether precautions were taken to avoid the violation; whether an informal conference or enforcement action was served on the violator prior to the violation. For this factor, up to double the base penalty may be added to the penalty.

(iii) Cooperation:

The department shall consider whether the violator did or did not make any attempt to correct the problem. Timeliness of action(s) and/or ignoring or evading agency contacts or directives shall determine if the penalty shall be increased. For this factor, up to double the base penalty may be added to the penalty.

(iv) Previous violation(s):

The department shall consider whether the violator has previous violations of a forest practice rule or regulation as documented in an enforcement action. The department may consider company organizations and assignment of operational responsibilities when evaluating previous violations. A history of violations with adverse impacts or potential for adverse impacts or that shows a pattern of ignoring the rules or the act, shall result in a substantially larger penalty.

Enforcement actions for the purposes of this section shall include notices to comply, stop work orders, civil penalties, and criminal citations when those enforcement actions are associated with forest practice violations. For this factor, up to quadruple the base penalty may be added to the penalty.

(v) Severity:

The department shall adjust the penalty based on the extent and magnitude of the damage or potential damage to public resources. For this factor, up to quadruple the base penalty may be added to the penalty.

(vi) Landowner involvement:

If in the opinion of the department, the landowner exercised reasonable prudence in the development of timber sale contracts or supervision of the forest practice operations, was unaware of the forest practice violation, and the landowner received no substantial economic benefit from the violation, then the landowner generally would not be assessed a civil penalty.

(c) In accordance with RCW 76.09.170, the penalty may not exceed ten thousand dollars for each and every violation.

(d) The department shall determine whether all or a portion of the penalty should be assessed against the operator, landowner, and/or timber owner. The department should consider the responsible party, the degree of control, the sophistication of the party and whether different parties conducted different violations.

(4) Other participants. Every person who through an act of commission or omission procures, aids or abets in the violation shall be considered to have violated the provisions of this section and shall be subject to the penalty (~~herein~~) provided for in this section.

~~((3))~~ (5) Government employees. (~~Provided, That~~) No penalty shall be imposed under this section upon any governmental official, an employee of any governmental department, agency, or entity, or a member of any board (~~or advisory committee~~) created by the act for any act or omission in his/her duties in the administration of the act or of these (~~regulations~~) rules.

~~((4))~~ (6) Written notice. The penalty (~~herein provided for~~) shall be imposed by a notice in writing, either by certified mail with return receipt requested or by personal service, to the person incurring the same from the department (~~of natural resources~~) describing the violation with reasonable particularity.

(7) Remission or mitigation. Within ~~((45))~~ fifteen days after the notice is received, the person incurring the penalty

may apply in writing to the department's manager of the region in which the penalty was issued, for the remission or mitigation of such penalty. Upon receipt of the application, the department may remit or mitigate the penalty upon whatever terms the department in its discretion deems proper: *Provided*, That the department deems such remission or mitigation to be in the best interests of carrying out the purposes of the act. The department (~~of natural resources~~) shall have authority to ascertain the facts regarding all such applications in such reasonable manner and under such (~~regulations~~) rules as they may deem proper. The reviewer may reduce, dismiss or not change the civil penalty. Within fifteen days of the completion of the regional review, the person incurring the penalty may apply in writing to the supervisor of the department for further review.

~~((5))~~ (8) Right of appeal. Any person incurring any penalty hereunder may appeal the same to the forest practices appeals board. Such appeals shall be filed within ~~((30))~~ thirty days of receipt of notice imposing any penalty unless an application for remission or mitigation is made to the department. When such an application for remission or mitigation is made, such appeals shall be filed within ~~((30))~~ thirty days of receipt of notice from the department setting forth the disposition of the application for remission or mitigation. Concurrently with the filing of any appeal to the forest practices appeals board as provided in this section, the appellant shall file a copy of the appeal with the department region from which the penalty was issued and a copy with the office of the attorney general.

~~((6))~~ (9) Penalties due. (~~Any~~) The penalty imposed (~~hereunder~~) under this section shall become due and payable ~~((30))~~ thirty days after receipt of a notice imposing the same unless application for remission or mitigation is made or an appeal is filed. When such an application for remission or mitigation is made, any penalty incurred (~~hereunder~~) under this section shall become due and payable ~~((30))~~ thirty days after receipt of notice setting forth the disposition of such application unless an appeal is filed from such disposition. Whenever an appeal of (~~any~~) the penalty incurred (~~hereunder~~) is filed, the penalty shall become due and payable only upon completion of all administrative and judicial review proceedings and the issuance of a final order or decision confirming the penalty in whole or in part.

~~((7) Foreclosure.)~~ (10) Enforcement. If the amount of any penalty is not paid to the department within ~~((30))~~ thirty days after it becomes due and payable, the attorney general, upon the request of the department, shall bring an action in the name of the state of Washington in the superior court of Thurston county or of any county in which such violator may do business, to recover such penalty. In all such actions the procedure and rules of evidence shall be the same as an ordinary civil action except as otherwise provided in the Forest Practices Act. In addition to or as an alternative to seeking enforcement of penalties in superior court, the department may bring an action in district court as provided in Title 3 RCW, to collect penalties.

(11) Liens. Penalties imposed under this section for violations associated with a conversion to a use other than commercial timber operation shall be a lien upon the real property of the person assessed the penalty. The department

may collect such amounts in the same manner provided in chapter 60.04 RCW for mechanics' liens.

NEW SECTION

WAC 222-46-065 Base penalty schedule. All other WAC or RCW violations not specifically mentioned in this list shall have a base penalty of five hundred dollars.

Violations of the following shall have a base penalty of two thousand dollars:

| Statute or Rule | Description |
|---|--|
| WAC 222-20-010 RCW 76.09.050 | Operation without an approved forest practices application/notification. |
| WAC 222-20-010 RCW 76.09.060 | Willful misrepresentation of information on the forest practices application /notification. |
| WAC 222-20-050 RCW 76.09.060 | Conversion of land without consent of the county, city or town. |
| WAC 222-20-040 WAC 222-20-060 RCW 76.09.060 | Significant, in the opinion of the department, deviation from an approved forest practices application/notification. |

AMENDATORY SECTION (Amending Order 263, filed 6/16/76)

WAC 222-46-070 Injunctions, civil suits, disapprovals. (1) ~~The department ((of natural resources, through the attorney general,))~~ may take any necessary action to enforce any final order or final decision, ~~((or to enjoin any forest practices by any person for a 1 year period after such person has failed to comply with a final order or a final decision))~~ and may disapprove for up to one year any forest practices application or notification submitted by any person who has failed to comply with a final order or decision as set forth in RCW 76.09.080, 76.09.090, or 76.09.110, or has failed to pay any civil penalties as provided in RCW 76.09.170.

The department shall provide written notice of its intent to disapprove future applications or notifications, and shall forward copies of such notice to any affected landowner, timber owner or operator; such written notice shall occur within ninety days of the failure to comply with a final order or decisions as set forth in RCW 76.09.080, 76.09.090, or 76.09.110, or has failed to pay any civil penalties as provided in RCW 76.09.170. The disapproval period shall run from thirty days following the date of actual notice or from the date all appeals, if any, have been exhausted.

Any person provided notice of intent to disapprove an application or notification may seek review from the forest practices appeals board within thirty days of the date of notice.

(2) A county may bring injunctive, declaratory, or other actions for enforcement for forest practice activities within its jurisdiction in the superior court as provided by law against the department, the forest landowner, timber owner or operator to enforce the forest practices regulations or any final order of the department or the appeals board ~~((= Provided, That)).~~ No civil or criminal penalties shall be imposed for past actions or omissions if such actions or omissions were conducted pursuant to an approval or directive of the department ~~((of natural resources. And provided further, That such actions shall not be com-~~

~~menced)).~~ A county may not commence injunctions, declaratory actions, or other actions for enforcement under this subsection unless the department fails to take appropriate actions after ~~((+0))~~ ten days' written notice to the department by the county of a violation of the forest practices ~~((regulations))~~ rules or final orders of the department or the appeals board.

**WSR 94-01-146
PERMANENT RULES
UTILITIES AND TRANSPORTATION
COMMISSION**

[Order R-406, Docket No. UT-931027—Filed December 21, 1993, 10:07 a.m.]

In the matter of amending WAC 480-80-390 relating to mandatory cost changes (MCC) for telecommunication companies.

The Washington Utilities and Transportation Commission takes this action under Notice No. WSR 93-22-115, filed with the code reviser on November 3, 1993. The commission brings this proceeding pursuant to RCW 80.01.040.

This proceeding complies with the Open Public Meetings Act (chapter 42.30 RCW), the Administrative Procedure Act (chapter 34.05 RCW), the State Register Act (chapter 34.08 RCW), the State Environmental Policy Act of 1971 (chapter 34.21C RCW), and the Regulatory Fairness Act (chapter 19.85 RCW).

The commission scheduled this matter for oral comment and adoption under Notice No. WSR 93-22-115, for 9:00 a.m., Wednesday, December 15, 1993, in the Commission's Hearing Room, Second Floor, Chandler Plaza Building, 1300 South Evergreen Park Drive S.W., Olympia, WA. The notice provided interested persons the opportunity to submit written comments to the commission until November 30, 1993.

Written comments were presented by Washington Independent Telephone Association, public counsel, and by the commission staff.

The rule change proposal was considered for adoption at the commission's regularly scheduled open public meeting on December 15, 1993, before Chairman Sharon L. Nelson and Commissioner Richard Hemstad. The proposal would decrease the authorized overall rate of return and return on equity from 10.25% to 9.73% and 11.5% to 10.45%, respectfully, to qualify a rate change request for streamlined processing under the rule. Oral comments were made by GTE Northwest Incorporated; Don Trotter, public counsel; and Kathy Folsom on behalf of the commission staff. GTE Northwest Incorporated objected to use of the proposed return on equity and rate of return. The company believed that a recent upward movement of interest rates signaled a trend in increasing capital costs. Public counsel supported the amendments to the rule as proposed by commission staff. After considering the written and oral comment, the commission adopted the rule as proposed.

In reviewing the entire record, the commission determines that WAC 480-80-390 should be amended to read as set forth in Appendix A, as a rule of the Washington

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Utilities and Transportation Commission, to take effect pursuant to RCW 34.05.380.

ORDER

THE COMMISSION ORDERS that WAC 480-80-390 is amended to read as set forth in Appendix A, as a rule of the Washington Utilities and Transportation Commission, to take effect pursuant to RCW 34.05.380.

THE COMMISSION FURTHER ORDERS That this order and the rule shown below, after being recorded in the register of the Washington Utilities and Transportation Commission, shall be forwarded to the code reviser for filing pursuant to chapter 34.05 RCW and chapter 1-21 WAC.

THE COMMISSION Adopts the commission staff memoranda, presented at the times the commission considered noticing and adopting this proposal under RCW 34.05.355.

DATED at Olympia, Washington, this 17th day of December 1993.

Washington Utilities and Transportation Commission
Sharon L. Nelson, Chairman
Richard Hemstad, Commissioner

AMENDATORY SECTION (Amending Order R-385, Docket No. UT-920960, filed 4/19/93, effective 5/20/93)

WAC 480-80-390 Mandatory cost changes for telecommunications companies. (1) This section establishes streamlined procedures to be applied to rate filings by local exchange telecommunication companies which seek to reflect in rate increases jurisdictional separations changes and mandatory accounting and tax changes imposed by a governmental authority which are accepted for intrastate ratemaking purposes by the commission.

(2) In order to qualify for jurisdictional separations or mandatory accounting and tax change treatment, a filing seeking to increase rates shall meet the following requirements at a minimum:

(a) It shall be accompanied by a recital that the company has or will within forty-five days of the filing complete distribution in the manner specified in WAC 480-80-125 of a notice to customers containing information as to the rate increase consistent with that required in that portion of the rule denominated "summary of requested rate increases," and further containing the name and mailing address of the commission and public counsel, and advising the customers that they may contact the same with respect to the proposed rate change. Proof of compliance with the foregoing shall be on file with the commission at least thirty days before any rates sought under this procedure shall be made effective.

(b) The filing shall be accompanied by supporting documentation demonstrating the calculation of the proposed increase and the authority for the change.

(c)(i) A company seeking this treatment for a proposed increase shall submit a rate of return statement, on a commission basis, which demonstrates that the company is not presently exceeding a reasonable level of earnings. If the company is exceeding a reasonable level of earnings, the proposed increase shall be reduced accordingly. All supporting documentation used to develop the rate of return statement shall be provided with the filing. For the purposes of

this rule, "reasonable level of earnings" is the company's authorized overall rate of return or the rate of return developed pursuant to (e) of this subsection, whichever is more current. Companies with revenues exceeding five hundred million dollars annually may use their authorized rate of return if established within the prior two years. If no return has been established within two years, such companies may not be accorded the procedures designated by this rule, unless in the judgment of the commission, such authorized return is not unreasonable for purposes of a filing under this rule. If a company cannot depict Washington intrastate results of operations with reasonable accuracy, the total Washington realized return may be used for this test.

(ii) The rate of return statement shall not be a fully pro formed results of operations statement, but must depict the results of operations on a commission basis. For purposes of this rule, "commission basis" means that the rate base includes those standard rate base components that have been historically accepted by the commission for ratemaking, and further includes restating actual adjustments which restate a company's booked results of operations to a ratemaking basis and also includes an appropriate pro forma debt adjustment. These restating adjustments should be made to account for jurisdictional differences where they depart from FCC Part 32. Accounting rules set forth in WAC 480-120-031 may be used as a guide to satisfy most adjustments required to restate per books results of operations. Nonoperating, nonrecurring, or extraordinary items, and unregulated operating items, or any other item that materially distorts test period earnings or expenses shall be removed from booked results of operations before the achieved return is calculated. For purposes of this rule, "commission basis" does not include new theories or approaches which have not been previously addressed to and resolved by the commission.

(d) The supporting documentation specified in (b) and (c) of this subsection shall be submitted at the time of the tariff filing or the first notice to customers, whichever occurs first.

(e) The qualifying overall rate of return will be either not greater than ~~((10.25))~~ 9.73 percent or based upon a ~~((11.50))~~ 10.45 percent return on equity. The ~~((10.25))~~ 9.73 percent overall rate of return will be adjusted according to the following table:

| |
|--|
| 90% DEBT COMPANIES USE 40.00% OF TARGET RATE OF RETURN |
| 80% DEBT COMPANIES USE 48.00% OF TARGET RATE OF RETURN |
| 70% DEBT COMPANIES USE 57.60% OF TARGET RATE OF RETURN |
| 60% DEBT COMPANIES USE 69.12% OF TARGET RATE OF RETURN |

Using the ~~((11.50))~~ 10.45 percent return on equity, the overall fair rate of return will be determined on an individual company basis giving consideration to the company's cost of debt and preferred equity, each adjusted for any known and measurable effects, and utilizing an appropriate capital structure.

For the purposes of this rule only, "appropriate capital structure" shall be defined as a minimum of forty percent equity and a maximum of sixty percent equity. Capital structures outside these parameters will be adjusted to the minimum or maximum, whichever is closer.

The rates shall be reviewed during the third quarter of each calendar year, and such action taken as may be necessary and appropriate to reflect the current capital market

conditions: *Provided*, That nothing herein shall foreclose more frequent review and adjustment of the overall rate of return or return on equity as circumstances may indicate. Nothing in this rule shall foreclose a utility from seeking a different return on equity, nor shall the returns or the methodologies stated in this section be considered as precedent for any other commission proceedings.

(3) Except for costs identified with a particular customer class, any revenue requirement change sought to be reflected by this treatment shall be spread on a uniform revenue percentage basis by customer class, defined as residential, business, and interexchange, whether or not classified as competitive.

Costs identified with interexchange services shall be spread to access charges using approved commission methodology. Costs identified with any other specific class or service shall be spread to that class or service on a uniform percentage basis. In exceptional circumstances, a company may propose an alternative rate design or rate spread.

(4) If the commission has reason to believe that the quality of the company's service is not consistent with its public service obligations, or if the commission has reason to believe that the company's results of operations, proposed rate design or proposed rate spread, or proposed alternative rate design or rate spread require a more extensive review, the commission may decline to apply the procedures contemplated by this rule.

(5) If jurisdictional separations or mandatory accounting and tax change treatment is found to be appropriate, the commission will ordinarily take final action within ninety days of the date of filing.

(6) Nothing in this section shall be construed to prevent any company, the commission, or any customer from utilizing any other procedures which are otherwise permitted by law.

WSR 94-01-178
PERMANENT RULES
WASHINGTON STATE PATROL
 [Filed December 22, 1993, 9:22 a.m.]

Date of Adoption: December 21, 1993.

Purpose: Chapters 446-55 and 446-60 WAC are being repealed because of the adoption of federal regulations. WAC 446-65-010 is being amended to adopt federal regulations (49 CFR parts 391 and 395).

Citation of Existing Rules Affected by this Order: Repealing chapters 446-55 and 446-60 WAC; and amending WAC 446-65-010.

Statutory Authority for Adoption: RCW 46.32.020.

Pursuant to notice filed as WSR 93-20-033 on September 28, 1993.

Effective Date of Rule: Thirty-one days after filing.
 December 21, 1993
 Roger W. Bruett
 Chief

REPEALER

The following chapter of the Washington Administrative Code is repealed:

- WAC 446-55-005 Promulgation.
- WAC 446-55-010 Scope and interpretation of the rules in this chapter—
 Additional qualifications—
 Duties of private carrier-drivers.
- WAC 446-55-020 General exemptions.
- WAC 446-55-030 Definitions.
- WAC 446-55-040 Familiarity with rules.
- WAC 446-55-050 Aiding or abetting violations.
- WAC 446-55-060 Qualifications of drivers.
- WAC 446-55-070 Disqualification of drivers.
- WAC 446-55-080 Application for employment.
- WAC 446-55-090 Investigation and inquiries.
- WAC 446-55-100 Annual review of driving record.
- WAC 446-55-110 Record of violations.
- WAC 446-55-120 Road test.
- WAC 446-55-130 Equivalent of road test.
- WAC 446-55-140 Written examination.
- WAC 446-55-150 Examination format.
- WAC 446-55-160 Equivalent of written examination.
- WAC 446-55-165 Exemptions for single vehicle owner drivers.
- WAC 446-55-170 Physical qualifications for drivers.
- WAC 446-55-180 Medical examination—Certificate of physical examination.
- WAC 446-55-190 Persons who must be medically examined and certified.
- WAC 446-55-220 Driver qualification files.
- WAC 446-55-230 Drivers who were regularly employed for a continuous three-year period prior to the effective date of this rule.
- WAC 446-55-250 Intermittent, casual, or occasional drivers.
- WAC 446-55-260 Drivers furnished by other motor carriers.
- WAC 446-55-270 Drivers of articulated (combination) farm vehicles.
- WAC 446-55-280 Intrastate drivers of vehicles transporting combustible liquids.

REPEALER

The following chapter of the Washington Administrative Code is repealed:

- WAC 446-60-005 Promulgation.
- WAC 446-60-010 Compliance with, knowledge of, and interpretation of, the rules in this chapter.
- WAC 446-60-015 General exemptions.
- WAC 446-60-020 Definitions.

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|----------------|-----------------------------------|
| WAC 446-60-030 | Maximum driving and on-duty time. |
| WAC 446-60-040 | Travel time. |
| WAC 446-60-050 | Driver's record of duty status. |
| WAC 446-60-060 | Adverse driving conditions. |
| WAC 446-60-070 | Emergency conditions. |
| WAC 446-60-080 | Relief from regulations. |
| WAC 446-60-090 | Drivers declared out of service. |

AMENDATORY SECTION (Amending Order 90-005, filed 3/1/91, effective 4/1/91)

WAC 446-65-010 Transportation requirements. (1) The Washington state patrol hereby adopts the following parts of Title 49 Code of Federal Regulations (~~as they exist during 1989, subject to any appendices and amendments in the future~~) in their entirety: Parts 390 General, 391 Qualification of drivers, 392 Driving of motor vehicles, 393 Parts and accessories necessary for safe operation, (~~394 Notification and reporting of accidents~~), 395 Hours of service of drivers, 396 Inspection, repair, and maintenance, 397 Transportation of hazardous materials; driving and parking rules.

(2) Copies of Title 49 CFR, parts 390 through 397, now in force are on file at the code reviser's office, Olympia and at the Washington state patrol headquarters, commercial vehicle enforcement section, Olympia. Additional copies may be available for review at Washington state patrol district headquarters offices, public libraries, Washington utilities and transportation commission offices, and at the United States Department of Transportation, Bureau of Motor Carrier Safety Office, Olympia. Copies of the CFR may be purchased through the Superintendent of Documents, United States Government Printing Office, Washington, D.C. 20402.

WSR 94-01-179
PERMANENT RULES
WASHINGTON STATE PATROL
 [Filed December 22, 1993, 9:25 a.m.]

Date of Adoption: December 21, 1993.

Purpose: WAC 204-74A-050 is being amended regarding the operation of lamps and stop signals on school buses.

Citation of Existing Rules Affected by this Order: Amending WAC 204-74A-050.

Statutory Authority for Adoption: RCW 46.37.005.

Pursuant to notice filed as WSR 93-20-034 on September 28, 1993.

Effective Date of Rule: Thirty-one days after filing.
 December 21, 1993
 Roger W. Bruett
 Chief

AMENDATORY SECTION (Amending WSR 90-18-047, filed 8/30/90, effective 9/30/90)

WAC 204-74A-050 Operation of lamps. (1) Operation of the warning lamp system shall be in compliance with FMVSS 108. Activation of the warning lamp sequence shall begin only by means of a manually-operated switch. Such

activation will cause the right and left amber lamps to flash alternately until the (~~bus entrance door is opened or the~~) stop signal arm is extended, or the bus entrance door is opened, at which time the amber lamps shall be automatically deactivated and the right and left red lamps shall be automatically activated. Whenever the warning lamp system has been activated, opening of the entrance door shall automatically deactivate the amber lamps, cause the stop signal arm to extend, and activate the red lamps. Automatic extension of the stop signal arm does not apply to systems equipped with a manually operated stop signal arm. All lamps shall flash at a rate from sixty to one hundred twenty times per minute and shall reach full brilliance during each cycle.

(2) Lamp controls shall consist of:

(a) The master or sequencing switch which shall be in plain view and mounted within easy reach of the driver, and which shall activate the system sequencing and deactivate the system at any time during the sequence.

(b) An override switch which shall automatically activate the red lamps whenever the stop signal arm is extended even though the master control switch is turned off, and which shall automatically deactivate the amber lamps if previously activated regardless of the then present normal state of sequencing or entrance door position. Such override switch shall be designed and installed so as to function with air, vacuum, electric, or manually operated stop signal arms. The stop signal arm shall be capable of being extended at any time, regardless of the position of the entrance door. The opening of the entrance door shall not cause extension of the stop signal arm, or the activation of the red lamps unless the master switch has been activated.

(c) A minimum of two pilot lamps, one amber and one red, each of which shall flash when the like colored warning lamps are in operation. Pilot lamps which show the operation of each individual lamp are permissible. All pilot lamps shall be located so as to be clearly visible to the driver.

(3) The warning lamp system shall be operated in accordance with the regulations set forth in chapter 392-145 WAC.

WSR 94-01-180
PERMANENT RULES
WASHINGTON STATE PATROL
 [Filed December 22, 1993, 9:27 a.m.]

Date of Adoption: December 21, 1993.

Purpose: WAC 446-50-040 is being repealed due to a change in federal law (49 CFR parts 171-180, and part 397).

Citation of Existing Rules Affected by this Order: Repealing WAC 446-50-040.

Statutory Authority for Adoption: RCW 46.48.190.

Pursuant to notice filed as WSR 93-20-032 on September 28, 1993.

Effective Date of Rule: Thirty-one days after filing.
 December 21, 1993
 Roger W. Bruett
 Chief

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 446-50-040 Procedure upon entering the state.

WSR 94-01-181**PERMANENT RULES****BELLEVUE COMMUNITY COLLEGE**

[Filed December 22, 1993, 9:30 a.m.]

Date of Adoption: December 21, 1993.

Purpose: Repeals existing rule governing refunds. Establishes rules under which refunds for withdrawal for courses may be given and fees may be assessed for schedule changes. Makes permanent, emergency enacted rule.

Citation of Existing Rules Affected by this Order: Repealing WAC 132H-160-180.

Statutory Authority for Adoption: RCW 28B.50.140.

Pursuant to notice filed as WSR 93-23-044 and 93-23-045 on November 12, 1993.

Changes Other than Editing from Proposed to Adopted Version: Subsection (2) tuition and fees will be refunded at 50% from day three rather than day four as stated in the proposed version, and the word "the" was added before fourth week of . . . in subsections (2) and (3).

Effective Date of Rule: Thirty-one days after filing.
December 21, 1993

Elise J. Erickson
Executive Assistant
Secretary, Board of Trustees

NEW SECTION

WAC 132H-160-182 Student schedule changes — Refund policy and administrative fees. Community College District VIII board of trustees has authorized the registrar to collect an administrative fee when a student adds or drops course(s) or withdraws from the college. In addition, the registrar is also authorized to refund fees when a student withdraws from college or a course(s). The registrar has the authority to make judgments regarding refunds in extraordinary circumstances. A student who is requested to withdraw for disciplinary reasons will not be eligible for a refund. Refund provisions for students receiving Title IV Federal aid are described in WAC 132H-160-185, Refund for Title IV Federal Aid Recipients.

Tuition and related fees are refunded upon withdrawal from college or a course(s) as follows:

(1) Tuition and fees will be refunded at 100% prior to the third day of the quarter for complete withdrawal from college, withdrawal from a course(s) (reduction of class load below 10 credits), and for classes the college has cancelled.

(2) Tuition and fees will be refunded at 50% from day three through the fourth week of the quarter for complete withdrawal from college or withdrawal from a course(s) (reduction of class load below 10 credits).

(3) Tuition and fees will not be refunded after the fourth week of the quarter.

(4) If an insurance claim has been filed, no refund will be granted for insurance fees.

(5) Self support programs may develop different refund policies based upon programmatic reasons, with institutional approval. Policies pertaining to these programs will be listed in the quarterly schedule.

WSR 94-01-190**PERMANENT RULES****SUPERINTENDENT OF PUBLIC INSTRUCTION**

[Filed December 22, 1993, 10:31 a.m.]

Date of Adoption: December 22, 1993.

Purpose: These rules determine, in part, placement of certificated instructional staff on LEAP salary allocation documents.

Citation of Existing Rules Affected by this Order: Repealing WAC 392-121-260, 392-121-265, 392-121-267, 392-121-272, 392-121-285, and 392-121-290; and amending WAC 392-121-245, 392-121-250, 392-121-255, 392-121-257, 392-121-261, 392-121-270, 392-121-280, and 392-121-295.

Statutory Authority for Adoption: RCW 28A.150.290 and 28A.150.400.

Other Authority: The Biennial Operating Appropriations Act.

Pursuant to notice filed as WSR 93-19-091 on September 15, 1993.

Effective Date of Rule: Thirty-one days after filing.
December 22, 1993

Judith A. Billings
Superintendent of
Public Instruction

AMENDATORY SECTION (Amending Order 88-8, filed 1/11/88)

WAC 392-121-245 Definition—Certificated years of experience. Regardless of the experience factors used by a school district for the purposes of its salary schedule(s), as used in this chapter, the term "years of experience" means the number of years of accumulated full-time and part-time professional education employment prior to the current reporting school year in the state of Washington, out-of-state, and a foreign country and shall be reported by the school district to the nearest tenth. School districts shall report all years of experience including those beyond the experience limit of the school district's salary schedule. The traditional nine-month academic year shall be considered as one school year. Not more than one school year of experience may be counted for any twelve-month period. Substitute days, if documented, shall be reported as part-time professional education employment calculated by dividing the accumulated number of full-time substitute days by one hundred eighty and rounding to the nearest tenth. Partial substitute days shall be reported as part-time professional education employment calculated by dividing the part of the day worked by the full day as determined by the district and rounded to the nearest tenth of a day. Professional education experience shall be limited to the following:

(1) Employment in public or private preschools or elementary and secondary schools in positions which require certification where:

(a) Schools include the Centrum education program, the Pacific Science Center education program, and educational centers authorized under chapter 28A.205. RCW;

(b) Certification means the concurrent public professional education licensing requirements established in the state, province, country, or other governmental unit in which employment occurred;

(2) Employment in public or private vocational-technical schools, technical colleges, community/junior colleges, colleges, and universities in positions comparable to those which require certification in ((the common schools)) Washington school districts;

(3) Employment in ((an)) a governmental educational agency ((or institution)) with regional administrative responsibilities for preschool, elementary, and/or secondary education including but not limited to an educational service district, office of the superintendent of public instruction, or United States department of education in any professional position including but not limited to C.P.A., architect, business manager, or physician;

(4) Experience in the following areas ((if recognized by the district for placement on the district salary schedule)):

(a) Military, Peace Corps, or Vista service which interrupted professional employment((+)) included in subsection (1), (2), or (3) of this section; and

(b) Sabbatical leave((- and (+))).

(5) For nondegreed vocational instructors ((who hold no degree)), up to a maximum of six years of management experience as defined in WAC 180-77-003 acquired after the instructor meets the minimum vocational certification requirements established in WAC 180-77-040. If a degree is obtained while employed in the state of Washington as a nondegreed vocational instructor, the eligible years of management experience pursuant to this subsection reported on Form S-275 prior to the awarding of the degree shall continue to be reported but shall not increase.

NEW SECTION

WAC 392-121-249 Definition—Regionally accredited institution of higher education. As used in this chapter, "regionally accredited institution of higher education" means the same as defined in WAC 180-78-010(6).

AMENDATORY SECTION (Amending Order 88-8, filed 1/11/88)

WAC 392-121-250 Definition—Highest degree level. As used in this chapter, the term "highest degree level" means:

(1) The highest degree earned by the employee from ((an)) a regionally accredited ((college or university)) institution of higher education;

(2) "Nondegreed" for a certificated instructional employee who holds no bachelor's or higher level degree; or

(3) "Nondegreed" for a certificated instructional employee who holds a valid vocational certificate acquired as the result of industrial experience rather than college training, and who has a degree earned from a regionally accredited

institution of higher education prior to the issue of the initial vocational certificate, which is incidental to or not related to the vocational certificate.

AMENDATORY SECTION (Amending Order 88-8, filed 1/11/88)

WAC 392-121-255 Definition—Academic credits. As used in this chapter, "academic credits" means credits determined as follows:

(1) Credits are earned after the awarding or conferring of the employee's first bachelor's degree((-));

(2) Credits are earned on or before October 1 of the year for which allocations are being calculated pursuant to this chapter((-));

(3) Credits are earned from ((an)) a regionally accredited institution of higher education: *Provided*, That credits, determined eligible pursuant to subsections (1), (2), (4) and (5) of this section, earned from any other accredited community college, college, or university((-) and reported on Form S-275 on or before December 31, 1992, shall continue to be reported;

(4) Credits are transferrable or applicable to a bachelor's or more advanced degree program((-)); *Provided*, That for educational courses which are the same or identical no more credits for that educational course than are transferrable or applicable to a bachelor's or more advanced degree program at that institution shall be counted;

(5) Credits are not counted as in-service credits pursuant to WAC 392-121-257((-) or nondegree credits pursuant to WAC 392-121-259;

(6) The number of credits equals the number of quarter hours, units or semester hours each converted to quarter hours earned ((from the community college, college, or university)) pursuant to this section; and

(7) Accumulate credits to the nearest tenth.

AMENDATORY SECTION (Amending Order 18, filed 7/19/90, effective 8/19/90)

WAC 392-121-257 Definition—In-service credits. As used in this chapter, "in-service credits" means credits determined as follows:

(1) Credits are earned after August 31, 1987.

(2) Credits are earned on or before October 1 of the year for which allocations are being calculated pursuant to this chapter.

(3) Credits are earned in either:

(a) A locally approved in-service training program which means a program approved by a school district board of directors, and meeting standards adopted by the state board of education pursuant to the standards in WAC 180-85-200 and the development of which has been participated in by an in-service training task force whose membership is the same as provided under RCW 28A.415.040; or

(b) A state approved continuing education program offered by an education agency approved to provide in-service for the purposes of continuing education as provided for under rules adopted by the state board of education pursuant to chapter 180-85 WAC.

(4) Credits are not counted as academic credits pursuant to WAC 392-121-255 or nondegree credits pursuant to WAC 392-121-259.

(5) Credits are not earned for the purpose of satisfying the requirements of the employee's next highest degree.

(6) Ten locally approved in-service or state approved continuing education credit hours defined in WAC 180-85-030 equal one in-service credit.

(7) Accumulate credits to the nearest tenth.

NEW SECTION

WAC 392-121-259 Definition—Nondegree credits.

As used in this chapter, "nondegree credits" means credits recognized for nondegreed basic education certificated instructional employees as follows:

(1) Zero credits shall be recognized for persons holding a valid initial or provisional certificate as a school nurse, a life teaching certificate, or a valid certificate as a special elementary or secondary consultant, or special crafts teacher.

(2) Thirty credits shall be recognized for persons holding a valid continuing or standard school nurse certificate.

(3) Persons holding valid vocational certificates as provided for in chapter 180-77 WAC shall accumulate recognized credits as follows:

(a) One credit for each ten clock hours of approved vocational teacher training meeting the requirements of WAC 180-77-003 and 180-77-045.

(b) One credit for each one hundred clock hours of occupational experience as defined in WAC 180-77-003 such that each calendar year is limited to a maximum of twenty credits.

(c) Clock hours used in determining credits in (a) and (b) of this subsection must be earned after meeting the minimum vocational certification requirements as established in WAC 180-77-040.

(4) Accumulate credits to the nearest tenth.

AMENDATORY SECTION (Amending Order 15, filed 6/20/90, effective 7/21/90)

WAC 392-121-261 Definition—Total eligible credits

~~((effective for the 1990-91 school year and thereafter)).~~
~~((For the 1990-91 school year and thereafter))~~ As used in this chapter, "total eligible credits" means the total number of credits determined as follows:

(1) For an employee whose highest degree is a bachelor's degree, sum:

(a) Academic and in-service credits; and

(b) Nondegree credits, determined pursuant to WAC 392-121-259 and reported on Form S-275 prior to the awarding of the bachelor's degree for vocational instructors who obtain a bachelor's degree while employed in the state of Washington as a nondegreed vocational instructor.

(2) For an employee whose highest degree is a master's degree, sum:

(a) Academic and in-service credits in excess of forty-five earned after the awarding or conferring of the bachelor's degree and prior to the awarding or conferring of the master's degree; and

(b) Academic and in-service credits earned after the awarding or conferring of the master's degree.

(3) Notwithstanding WAC 392-121-255 and 392-121-257, total eligible credits shall also include academic and in-

service credits earned after October 1, 1991, and prior to January 1, 1992, if:

(a) The employee's highest degree is a bachelor's degree;

(b) The employee's total eligible credits earned prior to October 1, 1991, are less than one hundred thirty-five; and

(c) The credits earned between October 1, 1991, and January 1, 1992, bring the employee's total credits to one hundred thirty-five or more.

(4) For a nondegreed employee sum only nondegree credits.

AMENDATORY SECTION (Amending Order 92-15, filed 11/16/92, effective 12/17/92)

WAC 392-121-270 Placement of basic education certificated instructional (~~staff with degrees on the state-wide salary allocation schedule and~~) employees on LEAP salary allocation documents. Each basic education certificated instructional employee (~~(with a degree)~~) shall be placed on (~~the state-wide salary allocation schedule and on~~) LEAP salary allocation documents based on the employee's certificated years of experience, highest degree level, and total eligible credits (~~as~~) each defined in this chapter(~~-~~) provided that:

(1) If an employee holds more than one degree of the same level, additional credits shall be counted after the first degree.

(2) (~~A certificated instructional employee who holds a valid vocational certificate acquired as the result of industrial experience rather than college training, and who also has earned a college degree which is incidental to or not related to the vocational certificate shall be reported by the school district as holding no degree.~~

(3)) An employee whose highest degree is a bachelor's degree, whose total eligible credits are ninety or greater, and whose total eligible credits earned prior to January 1, 1992, were less than one hundred thirty-five shall be placed on the BA + 90 column.

(3) An employee whose highest degree level is nondegreed shall be placed on the BA columns except that such persons holding valid vocational certificates with one hundred thirty-five or more eligible credits shall be placed on the MA + 0 column.

(4) A vocational instructor who obtains a bachelor's degree while employed in the state of Washington as a nondegreed vocational instructor and for whom one hundred thirty-five or more eligible credits determined pursuant to WAC 392-121-259 were reported on Form S-275 prior to the awarding of that bachelor's degree shall continue to be placed on the MA + 0 column and shall not advance to any other column unless a master's degree is obtained.

(5) For placement on (~~the state-wide salary allocation schedule and on~~) LEAP salary allocation documents, certificated years of experience and total eligible credits shall be rounded to the nearest whole number. One-half year or credit shall be rounded to the next highest year or credit.

~~((4) Effective for the 1992-93 school year and thereafter, an employee whose highest degree is a bachelor's degree, whose total eligible credits are ninety or greater, and whose total eligible credits earned prior to January 1, 1992, were less than one hundred thirty-five shall be placed on the~~

~~BA + 90 column of the state wide salary allocation table and LEAP salary allocation documents.))~~

AMENDATORY SECTION (Amending Order 92-15, filed 11/16/92, effective 12/17/92)

WAC 392-121-280 Placement on ~~((state wide salary allocation schedule and on))~~ LEAP salary allocation documents—Documentation required. School districts shall have documentation on file and available for review which substantiates each basic education certificated instructional employee's placement on ~~((the state wide salary allocation schedule and on))~~ LEAP salary allocation documents. The minimum requirements are as follows:

(1) Districts shall document the date of awarding or conferring of the highest degree ~~((—Documentation shall include))~~ including the date upon which the degree was awarded or conferred as recorded on the diploma or ~~((official))~~ transcript ~~((—Provided, That))~~ from the registrar of the regionally accredited institution of higher education.

(a) If the highest degree is a master's degree, the district shall also document the date of awarding or conferring of the first bachelor's degree.

(b) If the degree was awarded by an institution which does not confer degrees after each term, and all degree requirements were completed at a time other than the date recorded on the diploma or transcript, ~~((an official notatized))~~ a written statement from the registrar of the institution verifying a prior completion date shall be adequate documentation.

(2) Districts shall document academic credits by having on file ~~((an official))~~ a transcript ~~((or letter))~~ from the registrar of the regionally accredited institution of higher education granting the credits. For purposes of this subsection:

(a) An academic credit is deemed "earned" at the end of the term for which it appears on the transcript: *Provided*, That a written statement from the registrar of the institution verifying a prior earned date may establish the date a credit was earned;

(b) Washington state community college credits numbered one hundred and above are deemed transferable for purposes of WAC 392-121-255 subject to the limitations of that same subsection.

(3) Districts shall document in-service credits by having on file a document meeting standards established in WAC 180-85-107 ~~((1) through (3)))~~.

(4) Districts shall document nondegree credits.

(a) For approved vocational teacher training credits pursuant to WAC 392-121-259(3) districts shall have on file a document meeting standards established in WAC 180-85-107 and evidence that the training was authorized pursuant to WAC 180-77-045.

(b) For credits calculated from converted occupational experience pursuant to WAC 392-121-259(3) districts shall have on file documents which provide:

(i) Evidence that the occupational experience meets the requirements of WAC 180-77-003;

(ii) Evidence of the individual's actual number of hours of employment for each year including dates of employment; and

(iii) The district calculation of converted credits pursuant to WAC 392-121-259(3).

(5) Districts shall document certificated years of experience ~~((that are eligible for application on the state wide salary allocation schedule and on LEAP salary allocation documents—Documentation for))~~ as follows:

(a) For certificated years of experience ~~((shall be on letters or any other))~~ obtained and reported on Form S-275 prior to the 1994-95 school year districts shall have on file documents that provide evidence of employment including dates of employment.

(b) For certificated years of experience reported on Form S-275 for the first time after the 1993-94 school year districts shall have on file:

(i) The total number of hours per year for an employee working full-time with each employer;

(ii) The number of hours per year and dates of employment with each employer excluding unpaid leave: *Provided*, That documentation of hours in excess of one full-time certificated year of experience in any twelve-month period is not required;

(iii) The quotient of the hours determined in (b)(i) of this subsection divided by the hours in (b)(ii) of this subsection to two decimals for each year;

(iv) The name and address of the employer;

(v) For those counting out-of-district experience pursuant to WAC 392-121-245(1), evidence whether or not the position required professional education certification pursuant to WAC 392-121-245 (1)(b);

(vi) For those counting experience pursuant to WAC 392-121-245(2), a brief description of the previous employment which documents the school district's decision that the position was comparable to one requiring certification in the Washington school districts;

(vii) For those counting management experience pursuant to WAC 293-121-245(5), evidence that the experience meets the requirements of WAC 180-77-003.

(6) Any documentation required by this section may be original or copies of the original: *Provided*, That each copy is subject to school district acceptance or rejection.

(7) The falsification or deliberate misrepresentation, including omission of a material fact concerning degrees, credits, or experience by an education practitioner as defined in WAC 180-87-035 shall be deemed an act of unprofessional conduct pursuant to WAC 180-87-050. In such an event the provisions of chapters 180-86 and 180-87 WAC shall apply.

Reviser's note: The typographical error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

AMENDATORY SECTION (Amending Order 92-15, filed 11/16/92, effective 12/17/92)

WAC 392-121-295 Definition—District average staff mix factor for basic education certificated instructional staff. As used in this chapter, "district average staff mix factor for basic education certificated instructional staff" means the number rounded to five decimal places determined as follows:

(1) Assign a staff mix factor to each basic education certificated instructional employee by placing the employee

on the appropriate LEAP salary allocation document pursuant to WAC 392-121-270 (~~or 392-121-272~~);

(2) Multiply the result by the full-time equivalency for the time each employee meets the definition of full-time equivalent basic education certificated instructional employee pursuant to WAC 392-121-215;

(3) Sum the results obtained in subsection (2) of this section for all basic education certificated instructional employees of the school district; and

(4) Divide the result by the district's total full-time equivalent basic education certificated instructional staff.

(5) For the purpose of this section basic education certificated instructional staff are those employed by the school district as of October 1 of the school year as reported to the superintendent of public instruction on Form S-275.

REPEALER

The following sections of the Washington Administrative Code are repealed:

- | | |
|-----------------|---|
| WAC 392-121-260 | Definition—Total eligible credits effective for the 1989-90 school year. |
| WAC 392-121-265 | Definition—State-wide salary allocation schedule. |
| WAC 392-121-267 | Definition—LEAP Document 1. |
| WAC 392-121-272 | Placement of nondegree certificated instructional personnel on the state-wide salary allocation schedule and on LEAP salary allocation documents. |
| WAC 392-121-285 | Definition—District average basic education certificated instructional staff salary per placement on the state-wide salary allocation schedule. |
| WAC 392-121-290 | Definition—District actual average annual basic education certificated instructional staff salary. |

WSR 94-01-012
EMERGENCY RULES
DEPARTMENT OF FISHERIES

[Order 93-139—Filed December 2, 1993, 5:55 p.m.]

Date of Adoption: December 2, 1993.

Purpose: Amend personal use rules.

Citation of Existing Rules Affected by this Order:
 Amending WAC 220-56-128.

Statutory Authority for Adoption: RCW 75.08.080.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: A harvestable surplus of chum salmon remains available at the mouth of the Hoodsport Hatchery. An orderly fishery has been maintained and these surplus fish provide angling opportunity.

Effective Date of Rule: Immediately.

December 2, 1993

Judith Freeman

Deputy

for Robert Turner

Director

NEW SECTION

WAC 220-56-12800H Closed area - Hoodsport Hatchery. Notwithstanding the provisions of WAC 220-56-124 and WAC 220-56-128, effective December 3, 1993 through December 31, 1993, it is lawful to fish for and possess salmon taken for personal use in those waters of Hood Canal seaward of marker buoys at the mouth of Finch Creek. The daily bag limit is three salmon, not more than two of which may be chinook salmon, and the minimum size limit for chinook salmon is 22 inches. It is unlawful to fish for food fish within 100 feet of the mouth of Finch Creek from 10:00 p.m. to 6:00 a.m. daily, or after 12:00 midnight December 31, 1993.

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 220-56-12800G Food fish fishing - Closed
 area - Hoodsport. (93-79)

WSR 94-01-039
EMERGENCY RULES
PUBLIC DISCLOSURE COMMISSION

[Filed December 6, 1993, 3:44 p.m.]

Date of Adoption: November 16, 1993.

Purpose: Amend campaign disclosure forms.

Citation of Existing Rules Affected by this Order:
 Amending WAC 390-16-011, 390-16-012, 390-16-031, 390-16-032, 390-16-033, 390-16-041, and 390-16-050.

Statutory Authority for Adoption: RCW 42.17.390.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: Implement changes pursuant to Initiative 134.

Effective Date of Rule: Immediately.

December 6, 1993

Karen M. Copeland

Administrative Officer

[AMENDATORY SECTION] (Amending WSR 93-15-004, filed 7/7/93)]

WAC 390-16-011 Forms—Registration statement for political committees. The official form for providing the statement of organization by political committees for designating a campaign treasurer and depository and for reporting information required to qualify for abbreviated campaign finance reporting is designated "C-1pc", revised ((4/93)) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.

EMERGENCY

PUBLIC DISCLOSURE COMMISSION
pdc
711 CAPITOL WAY RM 403
PO BOX 40908
OLYMPIA WA 98504-0908
(206) 753-1111

**REGISTRATION:
POLITICAL COMMITTEES**

C1P
(4/93)

PDC OFFICE USE
P
O
R
T
K

R
E
C
E
I
V
E
D

Committee Name (Show entire official name.) _____ Acronym _____

Mailing Address _____
City _____ County _____ Zip + 4 _____

NEW REGISTRATION OR UPDATE OF PRIOR REGISTRATION?
 NEW: Complete all items in the registration
 AMENDED: Supply the information below which has changed

COMMITTEE STATUS
 Continuing committee
 19 _____ election only; election date _____

1. What is the purpose or description of the committee?
 Bona Fide Political Party Committee (official state or county central committee or legislative district committee). If you are not supporting the entire party ticket, attach a list or specify here the names of the candidates you support. _____ Ballot Number _____ FOR AGAINST
 Ballot Committee (Initiative, Bond, Levy, Recall, etc.). Name or description of ballot measure: _____
 Political Action Committee, Political Club or Organization (including party clubs). If PAC is associated with a business, association, labor union, or similar entity, specify name: _____
 Other. Explain on attached sheet.

2. Related or affiliated committees. List name, address and relationship _____

3. HOW MUCH DO YOU PLAN TO SPEND DURING THIS ENTIRE ELECTION CAMPAIGN, INCLUDING THE PRIMARY AND GENERAL ELECTIONS? BASED ON THAT ESTIMATE, CHOOSE ONE OF THE REPORTING OPTIONS BELOW. (If the committee is a continuing organization, estimate spending on a calendar year basis.)
If no box is checked you are obligated to use Full Reporting. See reporting instruction booklets for information about reports required and changing reporting options.
 ABBREVIATED REPORTING
We will use the Abbreviated Reporting System. We will raise and spend no more than \$2,000 and will accept no more than \$200 in the aggregate from any one contributor.
 FULL REPORTING
We will use the Full Reporting System. We understand this means we must file the frequent, detailed reports required by law.

4. Treasurer's Name and Address (List deputy treasurers on attached sheet.) _____ Daytime Telephone Number () _____

5. Committee's Principal Officers. List name, address and title _____

6. Campaign Bank or Depository.
Branch _____ City _____

7. Campaign records are to be open for public inspection the last eight days before the election. (Two hours daily between 8 AM - 8 PM, Monday - Friday.) Show location and hours below:
Street Address (Do not use a Post Office Box Number) _____ Hours _____

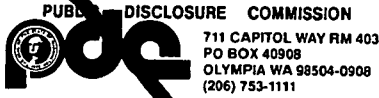
8. Fair Campaign Practices: All committee officers are encouraged to subscribe to the Code of Fair Campaign Practices printed in campaign instruction booklets.



9. Signature and Certification. I certify that this statement is true, complete and correct to the best of my knowledge.
Committee treasurer's signature _____ Date _____

Need campaign finance forms and instructions for the reporting system selected?
Please check one of the following boxes:
 I already have forms and instructions.
 I will get forms and instructions from my county elections office.
 I want the Public Disclosure Commission to mail me the proper forms and instructions.

EMERGENCY



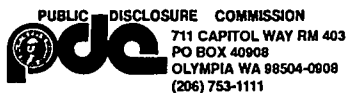
INSTRUCTIONS

Please consult PDC instruction manuals when completing this report. Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Persons, committees, organizations and groups that receive contributions and make expenditures in support of or opposition to: candidates in jurisdictions of 5,000 or more registered voters as of the last general election; statewide ballot issues; or local ballot issues in jurisdictions with 1,000 or more registered voters as of the last general election.
- WHEN TO FILE** Within 2 weeks of organizing a committee or first expecting to receive contributions or make expenditures, whichever occurs first. **(Committees that organize within three weeks of an election must file within three business days of forming or of expecting to receive contributions or make expenditures.)** File an amended C-1pc form within 10 days of significant changes to the registration information provided. Continuing political committees using Abbreviated Reporting must also file a C-1pc annually in January. Reports are considered filed as of the postmark date or date hand-delivered to PDC.
- WHERE TO FILE** Send the **original to PDC** at the above address. Send a **copy to the County Auditor** (County Elections Department) of the county in which the committee headquarters is located. If there is no headquarters, send to the County Auditor of the county in which the treasurer resides.
- REPORTING OPTIONS**
 - Abbreviated Reporting: May be used by committees that raise and spend no more than \$2,000 on their campaign activities. No more than \$200 may be accepted from any contributor. A 10th-of-the-month post primary, general or special election C-4 ABB report is required. Continuing committees re-register annually and file a year-end C-4 ABB by January 10 for any year in which they do not participate in an election.
 - Full Reporting: Required of all committees that do not qualify for Abbreviated Reporting. Frequent, detailed reports of contributions and expenditures are required until the committee is disbanded and the campaign account is closed.
- OTHER REPORTS**
 - C-3 (Cash Receipts Report): Used with Full Reporting only.
 - C-4 (Contribution and Expenditure Report): Used with Full Reporting only.
 - C-4 ABB (Receipts and Expenditures Summary): Filed by candidates and committees using Abbreviated Reporting.
 - Special Report E (Earmarked Contributions Report): Filed by committees that receive funds earmarked for use on behalf of a candidate or another political committee.
- FAIR CAMPAIGN PRACTICES CODE** This is a voluntary code adopted by PDC to stress the importance of ethical campaign practices. All committee members and supporters are encouraged to follow the Code's principles.

For assistance, call or write PDC!

EMERGENCY



REGISTRATION: POLITICAL COMMITTEES

C1P (11/93)

P M O A R K R E C E I V E D PDC OFFICE USE

Committee Name (Show entire official name.)

Acronym

Mailing Address

City County Zip + 4

NEW REGISTRATION OR UPDATE OF PRIOR REGISTRATION? NEW: Complete all items in the registration AMENDED: Supply the information below which has changed

COMMITTEE STATUS Continuing committee 19 election only; election date

1. What is the purpose or description of the committee? Bona Fide Political Party Committee, Ballot Committee, Political Action Committee, Other.

2. Related or affiliated committees. List name, address and relationship.

3. HOW MUCH DO YOU PLAN TO SPEND DURING THIS ENTIRE ELECTION CAMPAIGN, INCLUDING THE PRIMARY AND GENERAL ELECTIONS? BASED ON THAT ESTIMATE, CHOOSE ONE OF THE REPORTING OPTIONS BELOW. ABBREVIATED REPORTING FULL REPORTING

4. Campaign Manager's or Media Contact's Name and Address Daytime Telephone Number

5. Treasurer's Name and Address (List deputy treasurers on attached sheet.) Daytime Telephone Number

6. Committee's Principal Officers and/or Decision-Makers. List name, title, and address. Continue on attached sheet if necessary.

7. Campaign Bank or Depository. Branch City

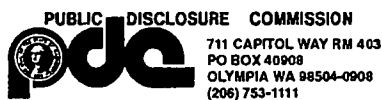
8. Campaign records are to be open for public inspection the last eight days before the election. (Two hours daily between 8 AM - 8 PM, Monday - Friday.) Show location and hours below: Street Address (Do not use a Post Office Box Number) Hours

9. Eligibility to Give to State Office Candidates: During the six months prior to making a contribution to a state office candidate, your committee must have received contributions of \$10 or more from at least ten persons registered to vote in Washington State.

10. Signature and Certification. I certify that this statement is true, complete and correct to the best of my knowledge. Committee Treasurer's Signature Date

Need campaign finance forms and instructions for the reporting system selected? Please check one of the following boxes: I already have forms and instructions. I will get forms and instructions from my county elections office. I want the Public Disclosure Commission to mail me the proper forms and instructions.

EMERGENCY



| | |
|--------------------------------------|---|
| PDC FORM C1 P C (11/93) | POLITICAL COMMITTEE REGISTRATION STATEMENT |
|--------------------------------------|---|

Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Persons, committees, organizations and groups that receive contributions and make expenditures in support of or opposition to: candidates in jurisdictions of 5,000 or more registered voters as of the last general election; statewide ballot issues; or local ballot issues in jurisdictions with 1,000 or more registered voters as of the last general election.
- WHEN TO FILE** Within 2 weeks of organizing a committee or first expecting to receive contributions or make expenditures, whichever occurs first. (Committees that organize within three weeks of an election must file within three business days of forming or of expecting to receive contributions or make expenditures.) File an amended C-1pc form within 10 days of significant changes to the registration information provided. Continuing political committees using Abbreviated Reporting must also file a C-1pc annually in January. Reports are considered filed as of the postmark date or date hand-delivered to PDC.
- WHERE TO FILE** Send the original to PDC at the above address. Send a copy to the County Auditor (County Elections Department) of the county in which the committee headquarters is located. If there is no headquarters, send to the County Auditor of the county in which the treasurer resides.
- City ballot issue committees and other political committees giving to city candidates, check with City Clerk regarding any local filing requirement.

**Contact County Elections Department or PDC for Instruction Manuals
 and Reporting Forms**

EMERGENCY

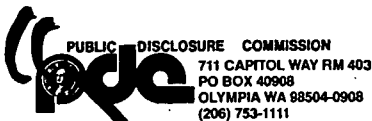
Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

[AMENDATORY SECTION (Amending WSR 93-15-004, filed 7/7/93)]

WAC 390-16-012 Forms—Registration statement for candidates. The official form for providing the statement of organization by candidates and candidate's committees, for designating a campaign treasurer and depository and for reporting information required to qualify for mini campaign finance reporting or abbreviated campaign finance reporting is designated "C-1", revised ((4/93)) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington, 98504. Any attachments shall be on 8-1/2" x 11" white paper.

EMERGENCY



REGISTRATION: CANDIDATES/CANDIDATE COMMITTEE

| | |
|-------------------------|---|
| C1 (4/93) | PDC OFFICE USE |
| | P M O S T R K R E C E I V E D |

Candidate's Name (Do not abbreviate. Include candidate's full name)

Candidate's Committee Name (Do not abbreviate.)

Mailing Address

City County Zip + 4

1. What office are you running for? Office District, County or City Position No.

2. Political party (if partisan office)

3. Date of general or special election

4. How much do you plan to spend during your entire election campaign, including the primary and general elections? Based on that estimate, choose one of the reporting options below.

If no box is checked you are obligated to use Option III, Full Reporting. See instruction manuals for information about reports required and changing reporting options.

Option I MINI REPORTING
I will limit contributions or expenditures during this campaign to my filing fee of \$ _____ plus no more than \$500, including charges for the voters pamphlet. I will accept no more than \$200 in the aggregate from any contributor except myself.

Option II ABBREVIATED REPORTING
I will use the Abbreviated Reporting System. I will raise and spend no more than \$2,000 and will accept no more than \$200 in the aggregate from any contributor except myself.

Option III FULL REPORTING
I will use the Full Reporting System. I understand frequent, detailed reports are required.

5. Treasurer's Name and Address (Candidate may be treasurer.) (List deputy treasurers on attached sheet.) Daytime Telephone Number ()

6. Committee's Principal Officers. List name, address and title.

7. Campaign Bank or Depository Branch City

8. Related or Affiliated Political Committees. List name, address and relationship.

9. Campaign records are to be open for public inspection the last eight days before election. (Two hours daily between 8 AM - 6 PM, Monday - Friday.) Show location and hours below:
Street Address (Do not use a Post Office Box Number) Hours

10. Fair Campaign Practices: All candidates and committee officers are encouraged to subscribe to the Code of Fair Campaign Practices printed in the instruction manuals.



11. CERTIFICATION:
I certify that this report is true, complete and correct to the best of my knowledge.

Candidate's signature Date

Please advise us about which forms and instructions you need. Remember, candidates must file a Financial Affairs Statement (F-1) unless a current one is already on file with PDC. Check all boxes which apply.

I already have financial affairs and campaign disclosure forms and instructions.

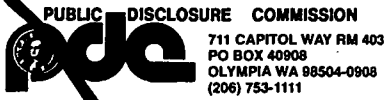
I am using Mini Reporting and, therefore, do not need the other campaign disclosure forms. In addition, I have already filed my Financial Affairs Statement and need no additional F-1 forms.

I will obtain all forms and instructions from my county elections office.

I want PDC to mail me: the F-1 instruction booklet (which includes forms) the appropriate campaign disclosure forms and instructions.

DISTRIBUTION OF THIS REPORT:
ORIGINAL — Public Disclosure Commission
COPY — County Elections Dept. (Auditor)
COPY — Your own records

EMERGENCY



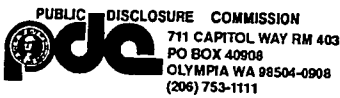
INSTRUCTIONS

Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Candidates who run for state or local office in jurisdictions that had 5,000 or more registered voters as of the last general election or in jurisdictions covering an entire county.
- WHEN TO FILE** Within 2 weeks of becoming a candidate (that is, receiving contributions, making expenditures, announcing candidacy, reserving space or filing for office, whichever occurs first). File an amended registration within 10 days of changes affecting accuracy of previously filed C-1. Report is considered filed as of postmark date or date hand-delivered to PDC.
- WHERE TO FILE** Send the **original to PDC** at the above address. Send a **copy to County Auditor** (County Elections Department) of the county in which the candidate resides.
- REPORTING OPTIONS**
 - Option I (MINI): May be used by candidates who raise and spend no more than \$500 on their campaigns (including personal funds), in addition to the filing fee amount. Limited to receiving \$200 or less from any contributor other than the candidate (who may give the entire \$500).
 - Option II (ABBREVIATED): May be used by candidates who raise and spend no more than \$2,000 on their campaigns (including personal funds). Filing fee costs count toward this limit. No more than \$200 may be accepted from any contributor other than the candidate.
 - Option III (FULL): Required of candidates who do not qualify for Mini or Abbreviated Reporting. Frequent, detailed reports of contributions and expenditures are required as long as the campaign account remains open.
- OTHER REPORTS**
 - F-1 (Financial Affairs Statement): Filed by candidates within 2 weeks of becoming a candidate, unless a previous F-1 filing has been made in the same calendar year.
 - C-3 (Cash Receipts Report): Used with Full Reporting only.
 - C-4 (Contribution and Expenditure Report): Used with Full Reporting only.
 - C-4 ABB (Receipts and Expenditures Summary): Filed by candidates using Abbreviated Reporting.
- FAIR CAMPAIGN PRACTICES CODE** This is a voluntary code adopted by PDC to stress the importance of ethical campaign practices. All candidates and campaign workers are encouraged to follow the Code's principles.

For assistance, call or write PDC!

EMERGENCY



711 CAPITOL WAY RM 403
PO BOX 40808
OLYMPIA WA 98504-0908
(206) 753-1111

**REGISTRATION:
CANDIDATES/CANDIDATE COMMITTEE**

| | | | |
|--|--------|--|--|
| Candidate's Name (Do not abbreviate. Include candidate's full name) | | C1 (11/93) | P M O A R K R E C E I V E D |
| Candidate's Committee Name (Do not abbreviate.) | | | |
| Mailing Address | | | |
| City | County | Zip + 4 | |
| 1. What office are you running for? Legislative District, County or City | | Position No. | Do you now hold this office? Yes ___ No ___ |
| 2. Political party (if partisan office) | | 3. Date of general or special election | |
| 4. How much do you plan to spend during your entire election campaign, including the primary and general elections? Based on that estimate, choose one of the reporting options below. | | | |
| If no box is checked you are obligated to use Option III, Full Reporting. See instruction manuals for information about reports required and changing reporting options. | | | |
| <input type="checkbox"/> Option I MINI REPORTING In addition to my filing fee of \$ _____, I will raise and spend no more than \$500, including charges for the voters pamphlet. I will accept no more than \$200 in the aggregate from any contributor except myself. | | <input type="checkbox"/> Option II ABBREVIATED REPORTING I will raise and spend no more than \$2,000, including my filing fee and charges for the voters pamphlet. I will accept no more than \$200 in the aggregate from any contributor except myself. | |
| <input type="checkbox"/> Option III FULL REPORTING I will use the Full Reporting System. I understand frequent, detailed reports are required. | | 5. Campaign Telephone Number: () Campaign Fax Number: () | |
| 6. Treasurer's Name and Address (Candidate may be treasurer.) (List deputy treasurers on attached sheet.) | | | Daytime Telephone Number () |
| 7. Committee's Principal Officers. List name, address and title. | | | |
| 8. Campaign Bank or Depository | | Branch | City |
| 9. Related or Affiliated Political Committees. List name, address and relationship. | | | |
| 10. Campaign records are to be open for public inspection the last eight days before election. (Two hours daily between 8 AM - 6 PM, Monday - Friday) Show location and hours below. Street Address (Do not use a Post Office Box Number) _____ Hours _____ | | | |
| 11. CERTIFICATION: I certify that this report is true, complete and correct to the best of my knowledge. Candidate's Signature _____ Date _____ | | | |

Please advise us about which forms and instructions you need. Remember, candidates must file a Financial Affairs Statement (F-1) unless a current one is already on file with PDC. Check all boxes which apply.

I already have financial affairs and campaign disclosure forms and instructions.

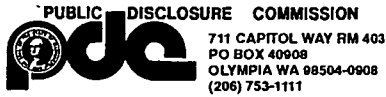
I am using Mini Reporting and, therefore, do not need the other campaign disclosure forms. In addition, I have already filed my Financial Affairs Statement and need no additional F-1 forms.

I will obtain all forms and instructions from my county elections office.

I want PDC to mail me: the F-1 instruction booklet (which includes forms) the appropriate campaign disclosure forms and instructions.

DISTRIBUTION OF THIS REPORT:
ORIGINAL — Public Disclosure Commission
COPY — County Elections Dept. (Auditor)
COPY — Your own records
(Note: City candidates contact City Clerk to see if local filing is required.)

EMERGENCY



Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Candidates who run for state office or local office in jurisdictions that had 5,000 or more registered voters as of the last general election or in jurisdictions covering an entire county.
- WHEN TO FILE** Within 2 weeks of becoming a candidate (that is, receiving contributions, making expenditures, announcing candidacy, reserving space or filing for office, whichever occurs first). File an amended registration within 10 days of changes affecting accuracy of previously filed C-1. Report is considered filed as of postmark date or date hand-delivered to PDC.
- WHERE TO FILE** Send the **original to PDC** at the above address. Send a **copy to County Auditor** (County Elections Department) of the county in which the candidate resides. Candidates for city offices should contact City Clerk to learn if local filing is required.

Contact County Elections Department or PDC for Instruction Manuals and Reporting Forms

EMERGENCY

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

[AMENDATORY SECTION (Amending WSR 93-09-002, filed 4/8/93)]

WAC 390-16-031 Forms for statement of contributions deposit. The official form for statement of contributions deposit is designated "C-3", revised (~~3/93~~) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.

EMERGENCY



CASH RECEIPTS MONETARY CONTRIBUTIONS

Form header area containing 'C3 (3/93)', 'PDC OFFICE USE', and 'POST RECEIVED' stamp

Candidate or Committee Name (Do not abbreviate. Use full name.)

Mailing Address

City

Zip + 4

Office Sought (candidates)

1. MONETARY CONTRIBUTIONS DEPOSITED IN ACCOUNT

Table with columns: Date Received, Please type or print clearly in Ink., Amount, Total. Rows include categories like Anonymous, Candidate's personal funds, Loans, etc.

2. CONTRIBUTIONS OVER \$25.00

Table with columns: Date Received, Contributor's Name, Street Address, City, State, Zip, Amount, Total given by this person during campaign or year. Includes a sub-total row and a checkbox for additional pages.

3. TOTAL FUNDS RECEIVED AND DEPOSITED OR CREDITED TO ACCOUNT

Sum of parts 1 and 2 above. Enter this amount in line 1, Schedule A to C4.

This report includes contributions deposited on (date)

Treasurer's Daytime Telephone No.: ()

I certify that this report is true and complete to the best of my knowledge

Treasurer's Signature

Date

EMERGENCY



| | |
|--|---|
| PDC FORM C3 <small>(3/93)</small> | CASH RECEIPTS AND MONETARY CONTRIBUTIONS |
|--|---|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this report.

Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

GENERAL GUIDELINES

- 1) All contributions and miscellaneous receipts must be deposited into the campaign bank account. Complete a C-3 for each bank deposit. File the reports as described below.
- 2) Anonymous contributions (those for which you do not have the contributor's name and address) are limited to the larger of \$300 or 1% of the total contributions received to date for this election. Unidentified small contributions raised through qualifying fund raising events do not count toward the anonymous contribution limit.
- 3) A candidate's cash contributions to the campaign are reported on Form C-3. Loans from the candidate are reported on line 1c of the C-3 as well as Schedule L. Unreimbursed out-of-pocket expenditures are reported as in-kind contributions on Schedule B to the C-4. Reimbursed out-of-pocket expenditures are reported on Schedule A to the C-4.
- 4) Contributions of \$25 or less may be combined and the total amount reported on line 3e of the C-3. While the names and addresses of contributors giving \$25 or less need not be reported, treasurers must keep a private list of these small contributors and the amounts given. When the total donated by any of these contributors exceeds \$25, that person's name and address must be included on the relevant C-3 report.
- 5) During the 21 days before the general election, contributions from one source may not exceed \$50,000 to a state-wide candidate or \$5,000 to any other candidate or committee. These limits do not apply to contributions received from major WA State political parties.

WHO MUST FILE

Treasurer of each candidate and political committee using Full Reporting. No C-3s are filed with Mini and Abbreviated Reporting. C-3 reports may be signed by designated deputy treasurers.

FILING DATES

During the four months or more before the general or a special election (prior to July 1 for general elections), file C-3s each time a C-4 report is filed.

Within four months or less before the general or special election (beginning July 1 for general elections), file the C-3 on the same day the bank deposit is made. (Contributions are to be deposited within five business days of receipt.)

WHERE TO FILE

Send original C-3 reports, along with Schedule L's, if necessary, to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

CONTRIBUTIONS OVER \$500

During the 7 days before the primary and the 21 days before the general election, candidates and committees must file special reports of each contribution received that exceeds \$500. The report discloses the amount of the contribution, the date received, the name and address of the donor as well as the name and address of the recipient.

If possible, a written report (C-3 form, telegram, mailgram, or nightletter) of these large contributions should be delivered to PDC within 48 hours (or the first working day after receipt). Otherwise, call PDC with the information required within the 48-hour or first working day timeframe and mail written confirmation of this telephone report within two days of receiving the contribution.

Any political committee, lobbyist or lobbyist employer who makes a contribution over \$500 during the 7 days before the primary or 21 days before the general election must notify PDC and the recipient of the contribution within 24 hours or the first working day after the contribution was made.

For assistance, call or write PDC!

EMERGENCY



CASH RECEIPTS MONETARY CONTRIBUTIONS

C3 (11/93)

PDC OFFICE USE

POST RECEIVED

Candidate or Committee Name (Do not abbreviate. Use full name.)

Mailing Address

City

Zip + 4

Office Sought (candidates)

1. MONETARY CONTRIBUTIONS DEPOSITED IN ACCOUNT

| Date Received | Please type or print clearly in ink. | Amount | Total |
|---------------|--|--------|-------|
| | a. Anonymous | | |
| | b. Candidate's personal funds deposited in the bank (include candidate loans in 1c) | | |
| | c. Loans, notes, security agreements. Attach Schedule L | | |
| | d. Miscellaneous receipts (interest, refunds, auctions, other). Attach explanation | | |
| | e. Small contributions \$25.00 or less not itemized and number of persons giving _____ (persons) | | |

2. CONTRIBUTIONS OVER \$25.00

| Date Received | Contributor's Name, Address, City, State, Zip | Contributions of \$100 or more: * Employer's Name, City and State | P R I | Q E N | Amount | Aggregate Total* |
|---------------|--|--|-------------|-------------|--------|--------------------------------|
| | | | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | <input type="checkbox"/> Check here if additional pages are attached | Sub-total Amount from attached pages | | | | *See Reverse For Details |

3. TOTAL FUNDS RECEIVED AND DEPOSITED OR CREDITED TO ACCOUNT

Sum of parts 1 and 2 above. Enter this amount in line 1, Schedule A to C4.

4. Date of Deposit

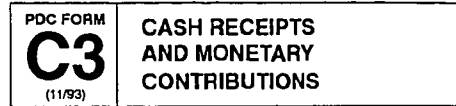
I certify that this report is true and complete to the best of my knowledge

Treasurer's Daytime Telephone No.: ()

Treasurer's Signature

Date

EMERGENCY



Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.
 Consult PDC instruction manuals when completing this report.

CONTRIBUTIONS OF \$100 OR MORE When an individual gives the campaign a total of \$100 or more in the aggregate, that person's employer must be identified by name, city, state and the person's occupation must also be disclosed. Once an individual gives at least \$100, occupation and employer information will appear on every report showing additional contributions from the individual.

For all candidates – when an individual gives \$100 or more since the beginning of the campaign, show occupation and employer information.

For Single Election Political Committees (e.g., ballot issue committees) – when an individual gives \$100 or more since the beginning of the campaign, show occupation and employer.

For Continuing Political Committees (e.g., party committees & PACs) – when an individual gives \$100 or more since the beginning of the calendar year, show occupation and employer.

PRIMARY/GENERAL ELECTION Candidates for legislative or state executive office must specify in Part 2 of the C-3 form whether a contribution is designated for the primary or the general election. If a contribution is for the primary election, put a "X" in the PRI box; if it counts toward the contributor's general election limit, put an "X" in the GEN box. If one check is used to make both a primary and a general election contribution, use two separate contributor blocks - one each for the primary and general donations. See instruction manual for example.

Local and judicial office candidates, political committees and continuing political committees - primary and general election designations not required; disregard these boxes.

AGGREGATE TOTAL The total put in the Aggregate Total column for each contributor will depend on who is filing the report. See below.

Legislative or State Executive Candidates: Show the total given for each election. If the contributor is giving a primary election contribution, the Aggregate Total figure is the total of that person's primary election contributions. If the GEN box is checked, the Aggregate Total is the contributor's general election total. (Only your campaign records and PDC's computer records will keep track of the grand total for both elections.)

Local and Judicial Candidates: Show the total given since the beginning of the campaign.

Political Committees Organized for One Election Only: Show the total given since the beginning of the campaign.

Continuing Political Committees: Show the total given since the beginning of the calendar year.

EMERGENCY

RECEIPTS CONTINUATION SHEET (Attachment to C-3 Form)

Page _____

Candidate or Committee Name (Do not abbreviate. Use full name.)

Deposit Date

| 2. CONTRIBUTIONS OVER \$25.00 | | Contributions of \$100 or more: | P | Q | Amount | Aggregate Total |
|-------------------------------|---|---------------------------------|---|---|--------|-----------------|
| Date Received | Contributor's Name, Address, City, State, Zip | Employer's Name, City and State | R | E | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
| | | Occupation | | | | |
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| | | Occupation | | | | |
| | | Occupation | | | | |

Page Total _____

EMERGENCY

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

[AMENDATORY SECTION (WSR 92-19-011, filed 9/3/92)]

WAC 390-16-032 Forms—Auction report. The official form for reporting items donated and sold at auctions, as required by RCW 42.17.090 (1)(b), is designated "Attachment Au", revised (~~8/92~~) 11/93. This attachment shall accompany each C-3 which reports the receipt of funds from an auction. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington, 98504.

AUCTION REPORT

ATTACHMENT
TO C3

Au

Use this form as an attachment to C3 to report items donated and sold at auctions.
Please see the reverse for an example of a report.

| | |
|-----------------------------|-----------------------|
| Candidate or committee name | Date auction was held |
|-----------------------------|-----------------------|

| Item No. description | Name and address | Fair market value | Sale price | Amount over fair market value | Total given by this person during campaign |
|-------------------------|------------------|----------------------|------------|-------------------------------------|--|
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
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| | Contributor | | | | |
| | Buyer | | | | |
| | Contributor | | | | |
| | Buyer | | | | |

EMERGENCY

| | | |
|--|---|--|
| Cash receipts, this page (Total, sale price column) | → | |
| Total from attached pages | → | |
| Total cash receipts (Put this amount in part 1d of C3 report) | → | |

See instructions on reverse

| | |
|--|------|
| I certify that the information herein is true, correct and complete to the best of my knowledge. | |
| Treasurer's signature | Date |

Instructions

Use this form as an attachment to your C3 (Cash Receipts and Bank Deposits).

Item No. description: As each item to be auctioned is received, assign it a number and a brief description.

Contributor: The person or organization which donates an article to be auctioned. If your committee purchases items for auction, state "purchased by committee" under contributor's name.

Buyer: The person who buys the item being auctioned.

Fair market value: The retail value of the article. If the retail value cannot be estimated or found, state "unknown."

Sale price: The amount the buyer paid for the item.

Amount over fair market value: The amount the sale price exceeds fair market value. If sale price is less than fair market value, leave blank.

Total given by this person during campaign:

Contributor—Fair market value of the item (substitute sale price, if lower) plus all previous contributions made to the candidate or committee.

Buyer—Amount over fair market value plus all previous contributions made to candidate or committee.

Cash payments: A payment of more than \$50.00 may not be accepted unless a receipt, signed by the buyer and the candidate, treasurer or deputy treasurer is prepared and made part of the committee's financial records.

AUCTION REPORT

Use this form as an attachment to C3 to report items donated and sold at auctions.

| Candidate or committee name JONES FOR SHERIFF COMMITTEE | | | | Date auction was held 9/14/XX | |
|---|--|-------------------|------------|---|--|
| Item No. description | Name and address | Fair market value | Sale price | Amount over fair market value | Total given by this person during campaign |
| NO. 1 USE BEACH CABIN | Contributor JOHN DOE 200 "A" STREET, SEATTLE 98101 | \$100 | | | \$100 |
| | Buyer MARY SMITH 400 "B" STREET, TACOMA 98402 | | \$125 | \$25 | \$25 |
| NO. 2 DINNER FOR 4 | Contributor SAM BROWN 123 MILITARY ROAD, ANYTOWN 99101 | \$80 | | | \$60 |
| | Buyer TOM MIX RT. 2, BOX 1, SADDLE MT. 98900 | | \$60 | | |
| NO. 3 BOAT CRUISE | Contributor CAPT. MOBY DICK 401 WATERFRONT, POULSBO 98701 | \$75 | | | \$75 |
| | Buyer MERRI RYDER 204 E. LAND, MYBURG 99100 | | \$90 | \$15 | \$15 |
| | Contributor | | | | |
| | Buyer | | | | |
| Cash receipts, this page (Total, sale price column) | | | \$275.00 | | |
| Total from attached pages | | | 0 | | |
| Total cash receipts (Put this amount in part 1d of C3 report) | | | \$275.00 | | |

AUCTION REPORT

Use this form as an attachment to C3 to report items donated and sold at auctions.
Please see the reverse for an example of a report.

ATTACHMENT
TO C3
(11/93)

Au

Candidate or Committee Name

Date auction was held

| Item No. Description | Name and Address | P R I | G E N | Fair market value | Sale price | Amount over fair market value | Aggregate Total* |
|-------------------------|------------------|-------------|-------------|----------------------|------------|-------------------------------------|---------------------|
| Contributor | | | | | | | |
| Buyer | | | | | | | |
| Contributor | | | | | | | |
| Buyer | | | | | | | |
| Contributor | | | | | | | |
| Buyer | | | | | | | |
| Contributor | | | | | | | |
| Buyer | | | | | | | |
| Contributor | | | | | | | |
| Buyer | | | | | | | |
| Contributor | | | | | | | |
| Buyer | | | | | | | |

Cash receipts, this page
(Total, sale price column) →

Total from attached pages →

Total cash receipts
(Put this amount in part 1d of C3 report) →

*If an individual—whether a contributor or buyer—has given \$100 or more to the campaign, show his or her occupation and employer's name, city & state on attached sheet.

See instructions on reverse

| | |
|--|------|
| I certify that the information herein is true, correct and complete to the best of my knowledge. | |
| Treasurer's signature | Date |

EMERGENCY

INSTRUCTIONS

Item No./Description: As each item to be auctioned is received, assign it a number and a brief description.

Contributor: The person or organization that donates an item or service to be auctioned. If the campaign purchases items for auction, state "purchased by committee" under contributor's name. If auction is held by state office candidate, designate which election (PRI or GEN) contribution is for. Contribution amount is fair market value of item or service and is subject to any applicable contribution limit. Adjust fair market value amount if sold for less than initial fair market value. See No. 2 below.

Buyer: The person who buys the item or service being auctioned. If auction is held by state office candidate, designate which election (PRI or GEN) buyer is giving to when purchase price exceeds fair market value amount.

Fair Market Value: The retail value of the article. Adjust if amount paid is less than fair market value. See No. 2 below.

Sale Price: The amount the buyer paid for the item or service.

Amount Over Fair Market Value: The amount the sale price exceeds fair market value. If sale price is less than or equal to the fair market value, leave blank. The amount paid in excess of fair market value is a contribution from the buyer and is subject to any applicable contribution limit.

Aggregate Total:

Contributor: Fair market value of the donation plus all previous contributions made during campaign (for state office candidates, all contributions made for election designated; for continuing political committees, all contributions made during calendar year).

Buyer: Amount over fair market value plus all previous contributions made during campaign (for state office candidates, all contributions made for election designated; for continuing political committees, all contributions made during calendar year).

Cash Payments: No cash payment of more than \$50 may be accepted unless a receipt, signed by the buyer and the candidate, treasurer or deputy treasurer, is prepared and made part of the campaign's financial records.

AUCTION REPORT

Use this form as an attachment to C3 to report items donated and sold at auctions.

| Candidate or committee name Sam Smith for State Senate | | | | | Date auction was held Sept. 14, 199X | | |
|--|---|--------------------------|-------------------------------------|-------------------|---|-------------------------------|-----------------|
| Item No. description | Name and address | PRI | GEN | Fair market value | Sale price | Amount over fair market value | Aggregate Total |
| No. 1 Use Beach Cabin | Contributor John Doe 200 "A" Street, Seattle, WA 98101 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | \$100 | | | \$100 |
| | Buyer Mary Smith 400 "B" Street, Tacoma, WA 98402 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | \$125 | \$25 | \$25 |
| No. 2 Dinner For 4 | Contributor Sam Brown 123 Military Road, Anytown, WA 98101 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | \$80 | | | \$60 |
| | Buyer Tom Mix Rt. 2, Box 1, Saddle Mt., WA 98900 | <input type="checkbox"/> | <input type="checkbox"/> | | \$60 | | |
| No. 3 Boat Cruise | Contributor Capt. Moby Dick 401 Waterfront, Poulsbo, WA 98701 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | \$75 | | | \$75 |
| | Buyer Merri Ryder 204 E. Land, Myberg, WA 99100 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | \$90 | \$15 | \$15 |
| Cash receipts, this page (Total, sale price column) | | | | | \$275 | | |
| Total from attached pages | | | | | 0 | | |
| Total cash receipts (Put this amount in part 1d of C3 report) | | | | | \$275 | | |

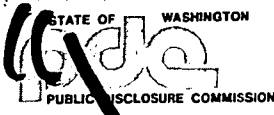
EMERGENCY

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

[AMENDATORY SECTION (Amending WSR 90-16-083, filed 7/31/90)]

WAC 390-16-033 Earmarked contributions—
Reporting; form. The official form for reporting the details surrounding an earmarked contribution, as required by RCW 42.17.125, is designated "Special Report E," revised ((~~1/90~~) 11/93). This report shall be filed within two working days of receiving a contribution earmarked for another candidate or committee. Copies of this form are available at the Commission Office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504.

EMERGENCY



EARMARKED CONTRIBUTION

SPECIAL REPORT E

PDC OFFICE USE
P
M
O
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R
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I
V
E
D

1. Name of committee filing this report (Candidate or committee which received a contribution earmarked for another.)

Address

City

County

Zip

2. Original source of earmarked contribution

Name

Address

City

State

Zip

3. Contribution Date Amount / Value Description (Fully describe in kind contributions)

4. Name of candidate or committee to be benefited

Address

City

County

Zip

If candidate, what office is the person seeking? _____

5. Certification: I certify that the information contained herein is true, complete and correct to the best of my knowledge.

Treasurer's signature _____

Date _____

INSTRUCTIONS:

The purpose of this report is to highlight receipt of an earmarked contribution. (That is, a contribution given to one candidate or political committee with the understanding, intent or instruction that it be used to benefit another candidate or committee.) This report is filed in addition to any other required reporting of the transaction.

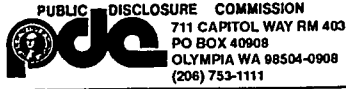
A separate "Special Report E" is filed for each earmarked contribution received by any candidate or political committee.

File this report within two working days of receiving the earmarked contribution. Mail or deliver the original to PDC. Send a copy to the benefiting candidate or committee, also within two working days.

NOTE: Candidates or committees for whom the earmarked contribution is ultimately intended report the contribution when they actually receive it. Such candidates and committees will use form C-3 or Schedule B to the C-3 to show receipt of the contribution. See PDC instruction manual for examples and more information.

Public Disclosure Commission
711 Capitol Way, Room 403 ♦ PO Box 40908 ♦ Olympia, WA 98504-0908 ♦ (206) 753-1111

EMERGENCY



EARMARKED CONTRIBUTION

SPECIAL REPORT
(11/93)

P
M
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K

R
E
C
E
I
V
E
D

PDC OFFICE USE

1. Name of committee filing this report (Candidate or committee which received a contribution earmarked for another.)

Address

City

County

Zip

2. Original source of earmarked contribution

Name

Address

City

State

Zip

| 3. Contribution Date | Amount/Value | Description (Fully describe in-kind contributions) | If contribution is to benefit a state office candidate, designate whether it's for Primary or General Election. |
|----------------------|--------------|---|---|
| | | | Primary _____ General _____ |

4. Name of candidate or committee to be benefited

Address

City

County

Zip

If candidate, what office is the person seeking? _____

5. Certification: I certify that the information contained herein is true, complete and correct to the best of my knowledge.

Treasurer's signature _____ Date _____

The purpose of this report is to highlight receipt of an earmarked contribution. (That is, a contribution given to one candidate or political committee with the understanding, intent or instruction that it be used to benefit another candidate or committee.) This report is filed in addition to any other required reporting of the transaction.

A separate "Special Report E" is filed for each earmarked contribution received by any candidate or political committee.

File this report within two working days of receiving the earmarked contribution. Mail or deliver the original to PDC. Send a copy to the benefiting candidate or committee, also within two working days.

NOTE: Candidates for legislative and statewide executive office are subject to state contribution limits. Earmarked contributions count toward the applicable limit and are attributed to the original source of the contribution (unless another person controlled the choice of recipient). It's a violation for anyone to accept a contribution in excess of the relevant limit. Verify with the campaign of a legislative or statewide office candidate before accepting a contribution earmarked for the benefit of such a candidate.

Public Disclosure Commission
711 Capitol Way, Room 403 • PO Box 40908 • Olympia, WA 98504-0908 • (206) 753-1111

EMERGENCY

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

[AMENDATORY SECTION (Amending WSR 93-09-002, filed 4/8/93)]

WAC 390-16-041 Forms—Summary of total contributions and expenditures. (1) The official form for reports of contributions and expenditures by ~~((local and judicial))~~ candidates and political committees who use the "full" reporting option is designated "C-4", revised ~~((3/93))~~ 11/93, and includes Schedule A, revised ~~((3/93))~~ 11/93, Schedule B, revised ~~((3/93))~~ 11/93, Schedule C, revised 3/93, and Schedule L, revised ~~((1/90))~~ 11/93.

(2) ~~((The official form for reports of contributions and expenditures by candidates for the state legislature or state executive office and who use the "full" reporting option is designated C-4, revised 1/90, and includes Schedule A s/l, revised 10/91, Schedule B s/l, revised 10/91, Schedule C, revised 3/93, and Schedule L, revised 1/90.~~

~~((3))~~ The official form for reports of contributions and expenditures by candidates and political committees who use the "abbreviated" reporting option is designated "C-4abb," revised ~~((7/92))~~ 11/93.

~~((4))~~ (3) Copies of these forms are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.



PUBLIC DISCLOSURE COMMISSION

SUMMARY, FULL REPORT RECEIPTS AND EXPENDITURE

C4 (3/93)

PDC OFFICE USE

POST RECEIVED

Candidate or Committee Name (Do not abbreviate. Use full name.)

Mailing Address

City

County

Zip + 4

Report Period Covered From: (last C-4) To: (end of period)

Is this your final report? Yes No

RECEIPTS

- 1. Previous total cash and in kind contributions (From line 8, last C-4)
2. Cash received (From line 2, Schedule A)
3. In kind contributions received (From line 3, Schedule B)
4. Total Cash and in kind contributions received this period (Line 2 plus 3)
5. Loan principal repayments made (From line 2, Schedule L)
6. Corrections (From line 1 or 3, Schedule C)
7. Net adjustments this period (Combine line 5 & 6)
8. Total cash and in kind contributions during campaign (Combine lines 1, 4 & 7)
9. Total pledge payments due (From line 2, Schedule B)

EXPENDITURES

- 10. Previous total cash and in kind expenditures (From line 17, last C-4)
11. Total cash expenditures (From line 4, Schedule A or line 5, Schedule A-s/l)
12. In kind expenditures (goods & services) (From line 1, Schedule B)
13. Total cash and in kind expenditures made this period (Line 11 plus line 12)
14. Loan principal repayments made (From line 2, Schedule L)
15. Corrections (From line 2 or 3, Schedule C)
16. Net adjustments this period (Combine lines 14 & 15)
17. Total cash and in kind expenditures during campaign (Combine lines 10, 13 and 16)

CANDIDATES

Please complete:

Table with columns: Won, Lost, Unopposed, Name not on ballot. Rows: Primary election, General election.

Treasurer's Daytime Telephone No.:

CASH SUMMARY

- 18. Cash on hand (Line 8 minus line 17)
19. Liabilities: (Sum of loans and debts owed)
20. Balance (Surplus or deficit) (Line 18 minus line 19)

CERTIFICATION: I certify that the information herein and on accompanying schedules and attachments is true to the best of my knowledge.

Candidate's Signature

Date

Treasurer's Signature

Date

EMERGENCY



PUBLIC DISCLOSURE COMMISSION
 711 CAPITOL WAY RM 403
 PO BOX 40908
 OLYMPIA WA 98504-0908
 (206) 753-1111

| | |
|--------------------------------|--|
| PDC FORM C4 (393) | CONTRIBUTION AND EXPENDITURE SUMMARY |
|--------------------------------|--|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

- WHO MUST FILE** Each candidate and political committee using Full Reporting.
- FILING DATES**
- 1) File with C-1 (Registration) if you received contributions or made expenditures before registering.
 - 2) File on the 10th of each month if contributions or expenditures were over \$200 since last C-4 was filed. (Note: These 10th-of-the-month reports are not required if another C-4 must be filed during that month. See #3 below.)
 - 3) For each primary, general and special election in which the candidate or political committee makes an expenditure, file
 - ◆ 20 days prior to the election
 - ◆ 7 days prior to the election
 - ◆ 10th of the first month after the election*

(*Not required after primary from candidates who will be in the general election or from continuing political committees.)
 - 4) File final report when campaign is finished or committee closes operation. Often, this coincides with the primary or general post-election, 10th-of-the-month report.
- All reports are considered filed as of the postmark date or the date hand-delivered to PDC.
- SCHEDULES AND ATTACHMENTS**
- State executive and legislative candidates will file Schedules A-s/l, B-s/l, C and L, as appropriate, along with the C-4.
- Judicial and local office candidates and all political committees will file Schedules A, B, C and L, as appropriate, along with their C-4 reports.
- All candidates and committees must attach any C-4 reports that were due but not filed.
- WHERE TO SEND REPORTS**
- Send original C-4 reports along with any attachments to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.
- OTHER REPORTS**
- C-3 (Cash receipts Report): Used with Full Reporting only.
- C-4 (Contribution and Expenditure Report): Used with Full Reporting only.
- C-4 ABB (Receipts and Expenditures Summary): Filed by candidates using Abbreviated Reporting.
- Special Report E (Earmarked Contributions Report): Filed by committees that receive funds earmarked for use on behalf of another candidate or committee.

For assistance, call or write PDC!

EMERGENCY



SUMMARY, FULL REPORT RECEIPTS AND EXPENDITURE

| | | |
|----|--|----------------|
| C4 | (11/83) | PDC OFFICE USE |
| | P O S T B R O W N I N G | |

Candidate or Committee Name (Do not abbreviate. Use full name.)

Mailing Address

City

Zip + 4

Office Sought (Candidates)

Report Period Covered

From: (last C-4)

To: (end of period)

Is this your final report? Yes _____ No _____

RECEIPTS

1. Previous total cash and in kind contributions (From line 8, last C-4) (If beginning a new campaign or calendar year, see instruction booklet) _____
2. Cash received (From line 2, Schedule A) _____
3. In kind contributions received (From line 1, Schedule B) _____
4. Total Cash and in kind contributions received this period (Line 2 plus 3) _____
5. Loan principal repayments made (From line 2, Schedule L) _____ ()
6. Corrections (From line 1 or 3, Schedule C) _____ Show + or (-) _____
7. Net adjustments this period (Combine line 5 & 6) _____ Show + or (-) _____
8. Total cash and in kind contributions during campaign (Combine lines 1, 4 & 7) _____
9. Total pledge payments due (From line 2, Schedule B) _____ ()

EXPENDITURES

10. Previous total cash and in kind expenditures (From line 17, last C-4) (If beginning a new campaign or calendar year, see instruction booklet) _____
11. Total cash expenditures (From line 4, Schedule A or line 5, Schedule A-s/l) _____
12. In kind expenditures (goods & services) (From line 1, Schedule B) _____
13. Total cash and in kind expenditures made this period (Line 11 plus line 12) _____
14. Loan principal repayments made (From line 2, Schedule L) _____ ()
15. Corrections (From line 2 or 3, Schedule C) _____ Show + or (-) _____
16. Net adjustments this period (Combine lines 14 & 15) _____ Show + or (-) _____
17. Total cash and in kind expenditures during campaign (Combine lines 10, 13 and 16) _____

CANDIDATES

Please complete:

| | Won | Lost | Unopposed | Name not on ballot |
|------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Primary election | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| General election | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Treasurer's Daytime Telephone No.:

()

CASH SUMMARY

18. Cash on hand (Line 8 minus line 17) _____ [Line 18 should equal your bank account balance(s) plus your petty cash balance.]
19. Liabilities: (Sum of loans and debts owed) _____ ()
20. Balance (Surplus or deficit) (Line 18 minus line 19) _____

CERTIFICATION: I certify that the information herein and on accompanying schedules and attachments is true to the best of my knowledge.

| | | | |
|-----------------------|------|-----------------------|------|
| Candidate's Signature | Date | Treasurer's Signature | Date |
|-----------------------|------|-----------------------|------|

EMERGENCY



| | |
|---|--|
| PDC FORM C4 <small>(11/93)</small> | CONTRIBUTION AND EXPENDITURE SUMMARY |
|---|--|

Please consult PDC instruction manuals when completing this report.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE

Each candidate and political committee using Full Reporting.

FILING DATES

- 1) File with C-1 (Registration) if you received contributions or made expenditures before registering.
- 2) File on the 10th of each month if contributions or expenditures were over \$200 since last C-4 was filed. (Note: These 10th-of-the-month reports are not required if another C-4 must be filed during that month. See #3 below.)
- 3) For each primary, general and special election in which the candidate or political committee makes an expenditure, file
 - ◆ 21 days prior to the election
 - ◆ 7 days prior to the election
 - ◆ 10th of the first month after the election*

(*Not required after primary from candidates who will be in the general election or from continuing political committees.)

4) File final report when campaign is finished or committee closes operation. Often, this coincides with the primary or general post-election, 10th-of-the-month report.

All reports are considered filed as on the postmark date or the date hand-delivered to PDC.

WHERE TO SEND REPORTS

Send original C-4 reports along with any attachments to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

(Candidates for city offices, city ballot issue committees and other political committees who give to city candidates or ballot issue committees check with City Clerk regarding any local filing requirement.)

EMERGENCY

EXPENDITURE CODE DEFINITIONS AND USES

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column specify who was benefited and, if in kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

EXPENDITURE CODE DEFINITIONS AND USES

(for use on Schedule A and Schedule B, Item 3)

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** your campaign legally makes to other campaigns. Put a "C" in the Code column, in the Description column specify who was benefited and, if in-kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- V VOTER SIGNATURE GATHERING**. Use "V" for expenditures made directly or indirectly to compensate a person or entity for soliciting or procuring signatures on a statewide initiative or referendum petition. Attach itemization of each such payment.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

IN KIND CONTRIBUTIONS, PLEDGES, ORDERS, DEBTS, OBLIGATIONS

SCHEDULE **B**
to C4
(3/93)

Candidate or Committee Name (Do not abbreviate. Use full name.)

1. IN KIND CONTRIBUTIONS RECEIVED (goods, services, discounts, etc.)

| Date received | Contributor's name and address | Description of contribution | Fair market value | Total given by this person during campaign or year |
|--|--------------------------------|-----------------------------|-------------------|--|
| TOTAL (Enter also on line 3 and line 12 of C4) | | | | |

2. PLEDGES RECEIVED BUT NOT YET PAID. List each pledge of \$100.00 or more.

| Date you were notified of pledge | Name and address of person making pledge (including organizations) | Amount | Total given by this person during campaign or year |
|---|--|--------|--|
| TOTAL (Include new pledges above and all other outstanding pledges. (Enter also on line 9 of C4) | | | |

3. ORDERS PLACED, DEBTS, OBLIGATIONS, ESTIMATED EXPENDITURES (Excluding loans. Report loans on Schedule L.)

- a. List each debt, obligation or estimated expenditure that is more than \$250.00.
- b. List each debt, obligation or estimated expenditure that is more than \$50.00 and has been outstanding for over 30 days.

| Expenditure Date | Vendor's/Recipient's Name and Address) | Amount Owed | Code* | OR | Description of Obligation |
|--|--|-------------|-------|----|---------------------------|
| TOTAL (Include in line 19 of C4) | | | | | |

EMERGENCY

EXPENDITURE CODE DEFINITIONS AND USES

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column specify who was benefited and, if in-kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

IN KIND CONTRIBUTIONS, PLEDGES, ORDERS, DEBTS, OBLIGATIONS

SCHEDULE B
to C4 (11/93)

Candidate or Committee Name (Do not abbreviate. Use full name.)

1. IN KIND CONTRIBUTIONS RECEIVED (goods, services, discounts, etc.)

| Date Received | Contributor's Name and Address | Description of Contribution | Fair Market Value | Aggregate Total | P R I G E N | | If \$100 or more, Employer Name, City, State & Occup. |
|--|--------------------------------|--|-------------------|-----------------|----------------|--|---|
| | | | | | | | |
| | | | | | | | Occupation |
| | | | | | | | Occupation |
| | | | | | | | Occupation |
| <input type="checkbox"/> Check here if additional pages are attached | | TOTAL (Enter also on line 3 and line 12 of C4) | | | | | Occupation |

2. PLEDGES RECEIVED BUT NOT YET PAID. List each pledge of \$100.00 or more.

| Date Notified of Pledge | Name and Address of Pledge Maker | Fair Market Value | Aggregate Total | P R I G E N | | If \$100 or more, Employer Name, City, State & Occup. |
|--|----------------------------------|--|-----------------|----------------|--|---|
| | | | | | | |
| | | | | | | Occupation |
| | | | | | | Occupation |
| <input type="checkbox"/> Check here if additional pages are attached | | TOTAL (include new pledges above and all other outstanding pledges. (Enter also on line 9 of C4) | | | | Occupation |

3. ORDERS PLACED, DEBTS, OBLIGATIONS. (Give estimate if actual amount not know. Exclude loans. Report loans on Schedule L.)

- a. List each debt, obligation or estimated expenditure that is more than \$250.00.
- b. List each debt, obligation or estimated expenditure that is more than \$50.00 and has been outstanding for over 30 days.

| Expenditure Date | Vendor's/Recipient's Name and Address) | Amount Owed | Code* | OR | Description of Obligation |
|--|--|--|-------|----|---------------------------|
| | | | | | |
| | | | | | |
| <input type="checkbox"/> Check here if additional pages are attached | | TOTAL (Include in line 19 of C4) | | | |

EMERGENCY

EXPENDITURE CODE DEFINITIONS AND USES

(for use on Schedule A and Schedule B, Item 3)

- C MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS** your campaign legally makes to other campaigns. Put a "C" in the Code column, in the Description column specify who was benefited and, if in-kind, what was purchased.
- I INDEPENDENT EXPENDITURES** (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column and fully describe purpose.
- L LITERATURE**. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.
- B BROADCAST ADVERTISING**. Use "B" for expenditures associated with the production and purchase of radio and television advertising.
- N NEWSPAPER & PERIODICAL ADVERTISING**. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.
- O OTHER ADVERTISING**. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.
- V VOTER SIGNATURE GATHERING**. Use "V" for expenditures made directly or indirectly to compensate a person or entity for soliciting or procuring signatures on a statewide initiative or referendum petition. Attach itemization of each such payment.
- P POSTAGE**. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.
- F FUNDRAISING EVENTS**. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.
- S SURVEYS AND POLLS**. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.
- T TRAVEL, ACCOMMODATIONS, MEALS**. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Schedule A.
- M MANAGEMENT AND CONSULTING SERVICES**. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).
- W WAGES, SALARIES, BENEFITS**. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.
- G GENERAL OPERATION AND OVERHEAD**. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture for the campaign.

CORRECTIONS

SCHEDULE **C**
to C4

Candidate or Committee Name (Do not abbreviate. Use full name.)

Date

1. CONTRIBUTIONS AND RECEIPTS (Include mathematical corrections.)

| Date of report | Contributor's name or description of correction | Amount reported | Corrected amount | Difference (+ or -) |
|----------------|---|---------------------------------------|------------------|---------------------|
| | | Total corrections to contributions | | |
| | | Enter on line 6 of C4. Show + or (-). | | |

2. EXPENDITURES (Include mathematical corrections.)

| Date of report | Vendor's name or description of correction | Amount reported | Corrected amount | Difference (+ or -) |
|----------------|--|--|------------------|---------------------|
| | | Total corrections to expenditures | | |
| | | Enter on line 15 of C4. Show + or (-). | | |

3. REFUNDS FROM VENDORS. The below listed amounts have been received as refunds on expenditures previously reported. The refund has been deposited and reported on C3 report, Line 1d.

| Date of refund | Source / person making refund | Amount of refund |
|----------------|-------------------------------|---|
| | | Total refunds |
| | | Enter as (-) on line 6 & line 15 of C4. |



EMERGENCY

LOANS

See instructions and examples on reverse

SCHEDULE
TO C3
OR C4

L
(1/90)

Candidate or committee name

1. LOAN RECEIVED.

| Date loaned | Lender's name and address | Amount of loan | Annual interest rate | Repayment schedule | Date due |
|-------------|---------------------------|----------------|----------------------|--------------------|----------|
|-------------|---------------------------|----------------|----------------------|--------------------|----------|

Also include this amount on line 1c, C3 report →

Name and address of each endorser, co-signer, guarantor or other person liable for the loan:

2. LOAN PAYMENTS.

| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed |
|-----------|---------------------------|----------------|---------------|---------------|--------------|
|-----------|---------------------------|----------------|---------------|---------------|--------------|

Total Principal Paid (Enter also on lines 5 and 14, C-4 report) →

Total Payments (Enter as an expenditure on Schedule A) →

3. LOAN FORGIVEN.

| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed |
|------|---------------------------|-----------------|------------------|-----------------|--------------|
|------|---------------------------|-----------------|------------------|-----------------|--------------|

4. LOANS STILL OWED. List each loan which has previously been reported and still has a balance due.

| Loan date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed |
|-----------|---------------------------|-----------------|------------------------------|-------------|
|-----------|---------------------------|-----------------|------------------------------|-------------|


Subtotal

New loans received during this reporting period

Check here if continued on attached sheet.

Total Loans Owed (Include in total on line 19, C-4 report)

EMERGENCY

PUBLIC DISCLOSURE COMMISSION

 711 CAPITOL WAY RM 403 FJ42
 PO BOX 40908
 OLYMPIA WA 98504-0908
 (206) 753-1111

| | | |
|----------------------------|--------------------|--------------|
| SCHEDULE TO C3 OR C4 | L (1/90) | LOANS |
|----------------------------|--------------------|--------------|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this schedule.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using full reporting that receives one or more campaign loans.

FILING DATES When a loan is received by the campaign, complete Part 1 and file the Schedule L with the C-3 report that corresponds with the loan's deposit into the account. Use a separate schedule for each loan received.

When a loan is paid or forgiven, in whole or in part, complete Part 2 and/or Part 3 and file the Schedule L with the C-4 covering the period when the payment or forgiveness occurred.

When one or more loans remain unpaid, complete Part 4 and file the schedule with each C-4 report until all loans are repaid in full or forgiven. (The same schedule may be used to show loan payments, forgiveness information and to show which loans remain unpaid.)

EMERGENCY

LOAN RECEIVED
 (Information would appear on separate Schedule L)

LOAN PAYMENTS

LOAN FORGIVEN

LOANS STILL OWED

| LOANS | | See instructions and examples on reverse | | SCHEDULE TO C3 OR C4 | | L (1/90) | |
|---|---------------------------|--|------------------------------|-------------------------------------|--------------|---------------------------|--|
| Candidate or committee name: Adrian Adams for State House | | | | | | | |
| 1. LOAN RECEIVED. | | | | | | | |
| Date loaned | Lender's name and address | Amount of loan | Annual interest rate | Repayment schedule | Date due | | |
| 2/10/9X | Candidate | \$5,000 | 12% | \$200/month | Not fixed | | |
| | | Include this amount in line 1c, C-3 report → \$5,000 | | | | | |
| Name and address of each endorser, co-signer, guarantor or other person liable for the loan: Commercial loan to the candidate from Washington State Bank. Loan co-signed by Sam P. Smith, 145 Boulevard Drive, Podunk, WA and Jane S. Paul, 541 B Street, Podunk, WA. Each guaranteed \$2,500 of the loan. | | | | | | | |
| 2. LOAN PAYMENTS. | | | | | | | |
| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed | | |
| 3/30/9X | Candidate | \$200 | \$50 | \$250 | \$4,800 | | |
| 3/31/9X | Michael Murray | \$100 | None | \$100 | \$.400 | | |
| | | Total Principal Paid → \$300 (Enter also on lines 8 and 14, C-4 report) | | | | | |
| | | | | Total Payments (Schedule A) → \$350 | | (Enter as an expenditure) | |
| 3. LOAN FORGIVEN. | | | | | | | |
| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed | | |
| 3/15/9X | Kelly Adams | \$250 | None | \$150 | \$100 | | |
| 4. LOANS STILL OWED. List each loan which has previously been reported and still has a balance due. | | | | | | | |
| Loan date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed | | | |
| 2/10/9X | Candidate | \$5,000 | \$200 | \$4,800 | | | |
| 1/22/9X | Michael Murray | 500 | 150 | 400 | | | |
| 3/01/9X | Kelly Adams | 250 | 150 | 100 | | | |
| 3/11/9X | K.M. Lawrence | 1,000 | 0 | 1,000 | | | |
| | | | | Subtotal | | \$6,700 | |
| New loans received during this reporting period: 0 | | | | | | | |
| | | | | Total Loans Owed | | \$6,300 | |
| <input type="checkbox"/> Check here if continued on attached sheet. Exclude in total on line 18, C-4 report! | | | | | | | |

LOANS

See Instructions and examples on reverse

SCHEDULE TO C3 OR C4

L
(11/93)

Candidate or committee name _____

1. LOAN RECEIVED. (Loans are considered contributions and are subject to any applicable limit.)

| Date loaned | Lender's name and address | <table border="1"><tr><td>P</td><td>G</td></tr><tr><td>R</td><td>E</td></tr><tr><td>I</td><td>N</td></tr></table> | P | G | R | E | I | N | Amount of loan | Annual interest rate | Repayment schedule | Date due |
|-------------|---------------------------|---|---|---|---|---|---|---|----------------|----------------------|--------------------|----------|
| P | G | | | | | | | | | | | |
| R | E | | | | | | | | | | | |
| I | N | | | | | | | | | | | |
| | | | | | | | | | | | | |

Also include this amount on line 1c, C3 report ➔

Name and Address of Each Loan Endorser, Co-signer

| | |
|---|---|
| P | G |
| R | E |
| I | N |

 Amount Liab For Aggregate Total If Total Contributed is \$100 or More, Show Endorser's Occupation and Name, City, & State of Employer

Check here if continued on attached sheet.

2. LOAN PAYMENTS. (Candidates may be repaid amount loaned or \$3,000 per election, which ever is less. See instruction manual for details.)

| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed |
|-----------|---------------------------|----------------|---------------|---------------|--------------|
| | | | | | |

Total Principal Paid (Enter also on lines 5 and 14, C-4 report) ➔

Total Payments (Enter as an expenditure on Schedule A) ➔

3. LOAN FORGIVEN.

| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed |
|------|---------------------------|-----------------|------------------|-----------------|--------------|
| | | | | | |

4. LOAN STILL OWED. (List each loan which has previously been reported and still has a balance due.)

| Date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed |
|------|---------------------------|-----------------|------------------------------|-------------|
| | | | | |

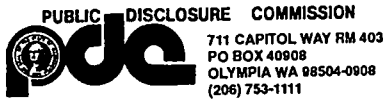
Subtotal _____

New loans received during this reporting period _____

Check here if continued on attached sheet.

Total Loans Owed (Include in total on line 19, C-4 report) _____

EMERGENCY



| | | |
|----------------------------|---------------------|--------------|
| SCHEDULE TO C3 OR C4 | L (11/93) | LOANS |
|----------------------------|---------------------|--------------|

Please consult PDC instruction manuals when completing this schedule.
 Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using full reporting that receives one or more campaign loans..

FILING DATES When a loan is received by the campaign, complete Part 1 and file the Schedule L with the C-3 report that corresponds with the loan's deposit into the account. Use a separate schedule for each loan received.

When a loan is paid or forgiven, in whole or in part, complete Part 2 and/or Part 3 and file the Schedule L with the C-4 covering the period when the payment or forgiveness occurred.

When one or more loans remain unpaid, complete Part 4 and file the schedule with each C-4 report until all loans are repaid in full or forgiven. (The same schedule may be used to show loan payments, forgiveness information and to show which loans remain unpaid.)

EMERGENCY

LOAN RECEIVED
 (Information would appear on separate Schedule L)

LOAN PAYMENTS

LOAN FORGIVEN

LOANS STILL OWED

| LOANS | | SCHEDULE TO C3 OR C4 | | L (11/93) | |
|---|--------------------------------|--|------------------------------|---|--------------|
| Candidate or committee name Adrian Adams for State Representative | | | | | |
| 1. LOAN RECEIVED. (Loans are considered contributions and are subject to any applicable limit.) | | | | | |
| Date loaned | Lender's name and address | Amount of loan | Annual interest rate | Repayment schedule | Date due |
| 2/12/9X | Tyler Adams (candidate's wife) | \$500 | 12% | \$100/month | Not fixed |
| 2/12/9X | Tyler Adams | 500 | Same | Same | Same |
| | | Also include this amount on the C3 report → \$1,000 | | | |
| Name and Address of Each Loan Employer, Co-employer | | | | | |
| Amount Loaned For | Aggregate Total | If Total Contributed is \$100 or More, Show Employer's Occupation and Name, City & State of Employer | | | |
| \$500 | \$500 | ABC Company, Madison, WI Sales Manager | | | |
| <input type="checkbox"/> Check here if continued on attached sheet. | | | | | |
| 2. LOAN PAYMENTS. (Candidates may be repaid amount loaned of \$3,000 per election, which ever is less. See instruction manual for details.) | | | | | |
| Date paid | Lender's name and address | Principal paid | Interest paid | Total payment | Balance owed |
| 3/30/9X | Tyler Adams | \$100 | \$10 | \$110 | \$900 |
| 3/31/9X | Michael Murray | 100 | None | 100 | 400 |
| | | Total Principal Paid (Enter also on line 9 and 14, C-4 report) → \$200 | | Total Payments (Enter as an expenditure on Schedule A) → \$210 | |
| 3. LOAN FORGIVEN. | | | | | |
| Date | Lender's name and address | Original amount | Principal repaid | Amount forgiven | Balance owed |
| 3/15/9X | Kelly Adams | \$250 | None | \$150 | \$100 |
| 4. LOAN STILL OWED. (List each loan which has previously been reported and still has a balance due.) | | | | | |
| Date | Lender's name and address | Original amount | Principal repaid or forgiven | Amount owed | |
| 2/12/9X | Tyler Adams | \$1,000 | \$100 | \$ 900 | |
| 1/22/9X | Michael Murray | 500 | 100 | 400 | |
| 3/01/9X | Kelly Adams | 250 | 150 | 100 | |
| 3/11/9X | K. M. Lawrence | 1,000 | 0 | 1,000 | |
| | | | | Subtotal \$2,400 | |
| | | | | New loans received during this reporting period 0 | |
| | | | | Total Loans Owed (Transfer to total on line 18, C-4 report) \$2,400 | |
| <input type="checkbox"/> Check here if continued on attached sheet. | | | | | |

**CASH RECEIPTS AND EXPENDITURES
STATE EXECUTIVE AND LEGISLATIVE CANDIDATES**

SCHEDULE **A-S/L**
to C4 (10/91)

Candidate or Committee Name (Do not abbreviate. Use full name)

1. CASH RECEIPTS (Contributions) which have been reported on C3. List each deposit since last C4 report was submitted.

| Date of Deposit | Amount | Date of Deposit | Amount | Date of Deposit | Amount | Total deposits |
|-----------------|--------|-----------------|--------|-----------------|--------|----------------|
| | | | | | | |

2. TOTAL CASH RECEIPTS

Enter also on line 2 of C4

CODES FOR CLASSIFYING EXPENDITURES: If one of the following codes is used to describe an expenditure, no other description is generally needed. The exceptions are: 1) if expenditures are in-kind or earmarked contributions to another candidate or committee or independent expenditures that benefit another candidate or committee, identify that candidate or committee in the Description block; and 2) when reporting payments to vendors for travel expenses, identify the traveller in the Description block.

**CODE
DEFINITIONS
ON REVERSE**

- *C* - Contributions (monetary, in-kind & transfers)
- *I* - Independent Expenditures
- *L* - Literature, Brochures, Printing
- *B* - Broadcast Advertising (Radio, TV)
- *N* - Newspaper and Periodical Advertising
- *O* - Other Advertising (yard signs, buttons, etc.)
- *P* - Postage, Mailing Permits
- *S* - Surveys and Polls
- *F* - Fundraising Event Expenses
- *T* - Travel, Accommodations, Meals
- *M* - Management/Consulting Services
- *W* - Wages, Salaries, Benefits
- *G* - General Operation and Overhead

3. EXPENDITURES

- a) Expenditures of \$50 or less, including those from petty cash, need not be itemized. Add up these expenditures by category (Own Campaign, Contribution to Others, etc.), and show the categorical subtotals in the appropriate column on the first line below.
- b) Itemize each expenditure of more than \$50 by date paid, name and address of vendor, code/description, and amount. Put the amount in the appropriate expense category column.
- c) For each payment to a candidate, campaign worker, PR firm, advertising agency or credit card company, attach a list of expenses or copies of receipts/ invoices supporting the payment.

| Date Paid | Vendor or Recipient (Name and Address) | Code | Purpose of Expense and/or Description | Own Campaign | Contribution to Others | Public Office | Non-Campaign Misc. |
|----------------------------|---|------|--|-----------------|---------------------------|------------------|-----------------------|
| N/A | Expenses of \$50 or Less | N/A | N/A | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Totals From Attached Pages | | | | | | | |

4. TOTALS BY EXPENSE CATEGORY

1 2 3 4

5. TOTAL CASH EXPENDITURES (Sum of columns 1, 2, 3 & 4)

Enter also on line 11 of C4

EMERGENCY

EXPENDITURE CODE DEFINITIONS AND USES

"C" MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column, specify who was benefited and, if in-kind, what was purchased, and put the amount in "Contribution to Others."

"I" INDEPENDENT EXPENDITURES (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column, fully describe purpose and put the amount in "Contribution to Others."

"L" LITERATURE. Use "L" for expenditures made for the preparation and production of campaign literature and printed applications, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.

"B" BROADCAST ADVERTISING. Use "B" for expenditures associated with the production and purchase of radio and television advertising.

"N" NEWSPAPER & PERIODICAL ADVERTISING. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.

"O" OTHER ADVERTISING. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.

"P" POSTAGE. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.

"F" FUNDRAISING EVENTS. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.

"S" SURVEYS AND POLLS. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.

"T" TRAVEL, ACCOMMODATIONS, MEALS. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Sch. A-s/l.

"M" MANAGEMENT AND CONSULTING SERVICES. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).

"W" WAGES, SALARIES, BENEFITS. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.

"G" GENERAL OPERATION AND OVERHEAD. Use "G" for general campaign operating expenses and overhead including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture. (Note: these are campaign-related expenses, not costs associated with holding public office.)

EMERGENCY

**IN KIND CONTRIBUTIONS, PLEDGES, ORDERS
DEBTS, OBLIGATIONS**

SCHEDULE to C4 **B-S/L**
(10/91)

Candidate or Committee Name (Do not abbreviate. Use full name)

1. IN KIND CONTRIBUTIONS RECEIVED (goods, services, discounts, etc.)

| Date Received | Contributor's Name and Address | Description of Contribution | Fair Market Value | Total given by this person during campaign or year |
|--|--------------------------------|-----------------------------|-------------------|--|
| TOTAL (Enter also on lines 3 and 12 of C4) | | | | |

2. PLEDGES RECEIVED BUT NOT YET PAID. List each pledge of \$100.00 or more.

| Date Notified of Pledge | Name and Address of Person Making Pledge (including organizations) | Amount | Total given by this person during campaign or year |
|--|--|--------|--|
| N/A | Sum of outstanding pledges previously itemized on Schedule B → | | N/A |
| TOTAL (Enter also on line 9 of C4) | | | |

3. ORDERS PLACED, DEBTS, OBLIGATIONS, ESTIMATED EXPENDITURES (Excluding loans. Report loans on Schedule L.)

- a. List each debt, obligation or estimated expenditure which is more than \$250.00.
- b. List each debt, obligation or estimated expenditure which is more than \$50.00 and has been outstanding for over 30 days.

| Expenditure Date | Vendor's/Recipient's Name and Address | Amount Owed | Code* | OR | Description of Obligation |
|--|---------------------------------------|-------------|-------|----|---------------------------|
| TOTAL (Include in line 19 of C4) | | | | | |

DC form C4B (Rev 10/91)-1

*Code Definitions on Reverse

EMERGENCY

CC

EXPENDITURE CODE DEFINITIONS AND USES

"C" MONETARY, IN-KIND AND EARMARKED CONTRIBUTIONS (including transfers) your campaign makes to other candidates and committees. Put a "C" in the Code column, in the Description column, specify who was benefited and, if in-kind, what was purchased, and put the amount in "Contribution to Others."

"I" INDEPENDENT EXPENDITURES (those expenditures that benefit other candidates or committees but are made independently of them). Put an "I" in the Code column, fully describe purpose and put the amount in "Contribution to Others."

"L" LITERATURE. Use "L" for expenditures made for the preparation and production of campaign literature and printed solicitations, including expenditures for mailing lists, design, photography, copy, layout, printing and reproduction. Use "P" for literature mailing costs.

"B" BROADCAST ADVERTISING. Use "B" for expenditures associated with the production and purchase of radio and television advertising.

"N" NEWSPAPER & PERIODICAL ADVERTISING. Use "N" for expenditures associated with the production and purchase of advertising in newspapers, periodicals and other publications.

"O" OTHER ADVERTISING. Use "O" for expenditures associated with the production and purchase of advertising on billboards, yard signs and campaign paraphernalia such as buttons, bumper stickers, T-shirts, etc.

"P" POSTAGE. Use "P" for expenditures for stamps, postage, United Parcel Service, Federal Express and direct mail services (postage only). Use "L" for design and other production costs associated with producing campaign literature.

"F" FUNDRAISING EVENTS. Use "F" for expenditures associated with holding a fundraiser, including payments to restaurants, hotels, caterers, other food and refreshment vendors, entertainers and speakers. Use "L" for expenditures for printed matter produced in connection with fundraising events.

"S" SURVEYS AND POLLS. Use "S" for expenditures associated with designing or producing polls, reports on election trends, voter surveys, telemarketing, telephone banks, GOTV drives, etc.

"T" TRAVEL, ACCOMMODATIONS, MEALS. Use "T" for expenditures associated with travel. If vendor has been paid directly, identify the traveller in Description column. If travel payment was made to credit card company or traveller (for out-of-pocket expenses), itemize expenses on separate sheet and attach to Sch. A-s/l.

"M" MANAGEMENT AND CONSULTING SERVICES. Use "M" for salaries, fees and commissions paid to campaign management companies and contract consultants, including law firms, whether the person is retained or formally employed by the campaign (for tax withholding purposes).

"W" WAGES, SALARIES, BENEFITS. Use "W" for expenditures associated with hiring campaign employees and other freelance workers who provide miscellaneous services other than campaign management or consulting.

"G" GENERAL OPERATION AND OVERHEAD. Use "G" for general campaign operating expenses and overhead, including filing fees, miscellaneous campaign expenses, headquarters rental, utilities, and purchase or rental of office equipment and furniture. (Note: these are campaign-related expenses, not costs associated with holding public office.)

)

EMERGENCY

PUBLIC DISCLOSURE COMMISSION
711 CAPITOL WAY RM 403
PO BOX 40908
OLYMPIA WA 98504-0908
(206) 753-1111

ABBREVIATED REPORT RECEIPTS AND EXPENDITURES

**ABB
C4**
(7/92)

P
M
A
R
K
R
E
C
E
I
V
E
D

PDC OFFICE USE

Candidate or Committee Name (Do not abbreviate. Include full name)

Mailing Address

City County Zip + 4

1. PERIOD COVERED BY REPORT: From: _____ To: _____ Final Report: Yes _____ No _____

- a. Candidates: Start of campaign through the end of the month in which the election occurred.
- b. Ballot Measure Committees: Start of campaign through the end of the month in which the election occurred.
- c. Continuing Committees filing post-election report: January 1 through end of the month in which election occurred.
- d. Continuing Committees filing annual report: Calendar year (January 1 through December 31).

2. RECEIPTS

- a. Cash on hand from previous campaign or year (Include money in checking, savings and other accounts)
- b. Cash contributions received this campaign or year (Include monetary contributions, loans, fund raising and cash contributions by a candidate)
- c. Total cash receipts (Add lines 2a + 2b)
- d. Other contributions, including in-kind (Include candidate's and committee workers' out of pocket expenditures, donated goods and services, filing fees paid by others and similar non-cash contributions)
- e. Total contributions (Add lines 2c + 2d)

3. EXPENSES

- a. Cash expenditures
- b. Other expenditures. (Enter the amount shown on line 2d above here. Non-cash contributions are listed as both received and expended. Disregard any materials which may remain on hand.)
- c. Total expenditures (Add lines 3a + 3b)

4. SURPLUS/DEFICIT

- a. Cash on hand at end of reporting period (Subtract: line 3a from 2c)
- b. Debts and obligations owed
- c. Surplus or deficit

CANDIDATES

Please complete: Primary election Won Lost Unopposed Name not on ballot
 General election

CERTIFICATION: I certify that this report is true and correct to the best of my knowledge.

Candidate's signature _____ Date _____ Treasurer's signature (if a political committee) _____ Date _____

See Instructions on reverse

EMERGENCY



| | |
|---|---|
| PDC FORM ABB C4 <small>(7/92)</small> | ABBREVIATED RECEIPTS & EXPENDITURES REPORT |
|---|---|

INSTRUCTIONS

Please consult PDC instruction manuals when completing this report. Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using Abbreviated Reporting.

FILING DATES

- 1) Special election candidates and political committees supporting or opposing special election candidates or ballot issues file on the 10th of the month following the election.
- 2) Candidates who lose in the primary and political committees supporting or opposing primary election ballot issues file on October 10.
- 3) Candidates who are in the general election and political committees making expenditures supporting or opposing general election candidates or ballot measures file on December 10.
- 4) Continuing political committees not taking part in elections during a year file annual reports on January 10 cover the preceding calendar year.
- 5) A final report is filed whenever a candidate's committee or a political committee ceases operation, disposes of any surplus campaign funds and has a zero account balance. Final reports may be filed at any time and may coincide with one of the due dates listed above.

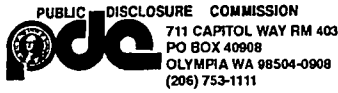
All reports are considered filed as of the postmark date or the date hand-delivered to PDC.

WHERE TO FILE

Send original C-4 ABB report to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

For assistance, call or write PDC!

EMERGENCY



711 CAPITOL WAY RM 403
PO BOX 40908
OLYMPIA WA 98504-0908
(206) 753-1111

ABBREVIATED REPORT RECEIPTS AND EXPENDITURES

**ABB
C4**
(11/93)

P
M
A
R
K

R
E
C
E
I
V
E
D

PDC OFFICE USE

Candidate or Committee Name (Do not abbreviate. Include full name)

Mailing Address

City Zip + 4

Office Sought (Candidates)

1. PERIOD COVERED BY REPORT: From: _____ To: _____ Final Report: Yes _____ No _____

- a. Candidates: Start of campaign through the end of the month in which the election occurred.
- b. Ballot Measure Committees: Start of campaign through the end of the month in which the election occurred.
- c. Continuing Committees filing post-election report: January 1 through end of the month in which election occurred.
- d. Continuing Committees filing annual report: Calendar year (January 1 through December 31).

2. RECEIPTS

- a. Cash on hand from previous campaign or year (Include money in checking, savings and other accounts)
- b. Cash contributions received this campaign or year (Include monetary contributions, loans, fund raising and cash contributions by a candidate)
- c. Total cash receipts (Add lines 2a + 2b)
- d. Other contributions, including in-kind (Include candidate's and committee workers' out of pocket expenditures, donated goods and services, filing fees paid by others and similar non-cash contributions)
- e. Total contributions (Add lines 2c + 2d)

3. EXPENSES

- a. Cash expenditures
- b. Other expenditures. (Enter the amount shown on line 2d above here. Non-cash contributions are listed as both received and expended. Disregard any materials which may remain on hand.)
- c. Total expenditures (Add lines 3a + 3b)

4. SURPLUS/DEFICIT

- a. Cash on hand at end of reporting period (Subtract: line 3a from 2c)
- b. Debts and obligations owed
- c. Surplus or deficit

CANDIDATES

Please complete: Primary election Won Lost Unopposed Name not on ballot

General election

CERTIFICATION: I certify that this report is true and correct to the best of my knowledge.

Candidate's Signature _____ Date _____ Treasurer's Signature (if a political committee) _____ Date _____

EMERGENCY



Please consult PDC instruction manuals when completing this report. Reporting requirements are contained in and governed by chapters 42.17 RCW and 390-16 WAC.

WHO MUST FILE Each candidate and political committee using Abbreviated Reporting.

- FILING DATES**
- 1) Special election candidates and political committees supporting or opposing special election candidates or ballot issues file on the 10th of the month following the election.
 - 2) Candidates who lose in the primary and political committees supporting or opposing primary election ballot issues file on October 10.
 - 3) Candidates who are in the general election and political committees making expenditures supporting or opposing general election candidates or ballot measures file on December 10.
 - 4) Continuing political committees not taking part in elections during a year file annual reports on January 10 cover the preceding calendar year.
 - 5) A final report is filed whenever a candidate's committee or a political committee ceases operation, disposes of any surplus campaign funds and has a zero account balance. Final reports may be filed at any time and may coincide with one of the due dates listed above.

All reports are considered filed as of the postmark date or the date hand-delivered to PDC.

WHERE TO FILE Send original C-4 ABB report to PDC at the above address. Candidates send a duplicate copy to their County Auditor (County Elections Department). Political committees send a copy to County Auditor of the county in which their headquarters is located or, if no headquarters, the county in which their treasurer resides.

(Candidates for city offices, city ballot issue committees and other political committees who give to city candidates or ballot issue committees check with city clerk regarding any local filing requirement.)

EMERGENCY

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

[AMENDATORY SECTION (Amending WSR 89-20-068, filed 10/4/89)]

WAC 390-16-050 Forms for contributions and expenditures of political committees not domiciled in Washington state. The official form for the report of contributions and expenditures of political committees not domiciled in Washington state or otherwise not required to report is designated "C-5", revised (~~4/90~~) 11/93. Copies of this form are available at the commission office, Room 403, Evergreen Plaza Building, Olympia, Washington 98504. Any attachments shall be on 8-1/2" x 11" white paper.

CC



PUBLIC DISCLOSURE COMMISSION

711 CAPITOL WAY RM 403 FJ42
PO BOX 40908
OLYMPIA WA 98504-0908
(206) 753-1111

FORM C5 1/90

PDC OFFICE USE
POST RECEIVED

OUT OF STATE OR FEDERAL COMMITTEE CONTRIBUTION TO WASHINGTON CANDIDATES OR COMMITTEES

1. Name and address of committee making contribution
2. Check appropriate box
This is the first report submitted during 19__
This shows new expenditures, contributions or information changed from reports submitted previously this calendar year.

3. Explain briefly the purpose or affiliation of the committee. (e.g., A PAC of employees of XYZ Trade Assn., or the candidates committee of US Senator John Doe, or a PAC of members of the United Worker's Union.)

4. Officers or responsible leaders of committee
Table with columns: Name and address, Title

5. Candidate contributions: List each Washington candidate for state or local office to whom you have made a contribution of more than \$50.00
Table with columns: Candidate's name, Office sought, Political party, Date, Amount given

6. Ballot measure committee contributions: List each Washington committee supporting or opposing a ballot measure to whom you have made a contribution of more than \$50.00.
Table with columns: Committee name and address, Ballot number, For or against?, Date, Amount given

7. Other contributions and expenditures: List each other contribution or expenditure of more than \$50.00 made to or on behalf of any Washington state or local candidate, ballot measure or political committee.
Table with columns: Recipient's name and address, Purpose, Date, Amount

Check here [] if continued on attached sheet

8. Total contributions and expenditures (Add parts 5, 6, 7)

CAUTION: Failure to report transactions within ten days will cause the funds to forfeit to Washington State.

EMERGENCY

))

EMERGENCY

9. Contributions received from Washington residents:

List all contributions of more than \$25.00 in aggregate to this out of state, federal or other committee during the current calendar year from Washington residents or corporations with a place of business in Washington.

| Name and address | Date | Amount |
|------------------|------|--------|
| [Redacted] | | |

Check here if continued on attached sheet

10. CERTIFICATION: I certify the information contained in this report is true and correct to the best of my knowledge.

INSTRUCTIONS

(Statutory reference: RCW 42.17.090 (1)(K))

WHO MUST REPORT

A political committee not domiciled in the State of Washington, a federal committee or other committee not required to register under Washington law, which has made contributions to a state or local candidate political committee in Washington state.

Signature of committee official

Name

Title Date

WHEN TO REPORT

A C-5 report is due within ten days of a Washington state candidate or political committee receiving a contribution of more than \$50 from an out-of-state or federal PAC. After filing an initial C-5 report, subsequent reports during the same calendar year may be filed by letter updating or amending the information previously reported. These follow-up reports are also due within ten days of contributions's receipt.

SEND REPORT TO

Public Disclosure Commission
711 Capitol Way, Room 403,
PO Box 40908
Olympia, WA 98512-0908

VIOLATIONS AND PENALTIES

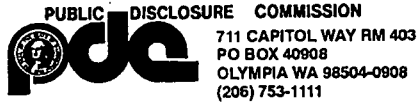
It is a violation of law for any person to make, or for any candidate or political committee to accept from any one person, contributions in the aggregate exceeding \$50,000 for any campaign for state-wide office or \$5,000 for any other campaign within 21 days of a general election.

Failure to report contributions and file the information required by this report within 10 days after the Washington candidate or committee receives the funds will cause the funds to be forfeited to the state.

FOR ADDITIONAL INFORMATION

Contact the Public Disclosure Commission at (206) 753-1111

BE SURE TO NOTIFY
EACH CANDIDATE
AND COMMITTEE
THAT YOU HAVE
FILED THIS REPORT



FORM
C5
(11/93)

PDC OFFICE USE
POST
MARK
RECEIVED

OUT OF STATE OR FEDERAL COMMITTEE CONTRIBUTION TO WASHINGTON CANDIDATES OR COMMITTEES

1. Name and address of committee making contribution

2. Check appropriate box
 This is the first report submitted during 19____
 This shows new expenditures, contributions or information changed from reports submitted previously this calendar year.

3. Explain briefly the purpose or affiliation of the committee. (e.g., A PAC of employees of XYZ Trade Assn., or the election committee of US Senator John Doe, or a PAC of members of the United Worker's Union.)

| 4. Officers or responsible leaders of committee Name and address | Title |
|---|-------|
|---|-------|

5. Candidate contributions: List each Washington candidate for state or local office to whom you have made a contribution of more than \$50.00.

| Candidate's name | Office sought | Political party | Date | Amount given |
|------------------|---------------|-----------------|------|--------------|
|------------------|---------------|-----------------|------|--------------|

6. Ballot measure committee contributions: List each Washington committee supporting or opposing a ballot measure to whom you have made a contribution of more than \$50.00.

| Committee name and address | Ballot number | For or against? | Date | Amount given |
|----------------------------|---------------|-----------------|------|--------------|
|----------------------------|---------------|-----------------|------|--------------|

7. Other contributions and expenditures: List each other contribution or expenditure of more than \$50.00 made to or on behalf of any Washington state or local candidate, ballot measure or political committee.

| Recipient's name and address | Purpose | Date | Amount given |
|------------------------------|---------|------|--------------|
|------------------------------|---------|------|--------------|

Check here if continued on attached sheet

8. Total contributions and expenditures (Add parts 5, 6, 7)

CAUTION: Failure to report transactions within ten days will cause the funds to forfeit to Washington State.

EMERGENCY

9. Contributions received from Washington residents: List all contributions of more than \$25.00 in aggregate to this out of state, federal or other committee during the current calendar year from Washington residents or corporations with a place of business in Washington.

| Name and address | Date | Amount |
|------------------|------|--------|
| | | |

Check here if continued on attached sheet

10. Eligibility to Give to State Office Candidates: During the six months prior to making a contribution to a legislative or statewide executive candidate, your committee must have received contributions of \$10 or more from at least ten persons registered to vote in Washington State.

A check here indicates your awareness of and pledge to comply with this provision. Absence of a check mark means your committee does not qualify to give to legislative and statewide executive office candidates.

11. Certification: I certify the information contained in this report is true, complete and correct to the best of my knowledge.

Signature of Committee Official

Name - Typed or Printed

Title

Daytime Telephone No.: () _____

(Be sure to notify each contribution recipient that you have filed this report, in order that they are aware they may spend the contribution given to them.)

INSTRUCTIONS

(Statutory reference: RCW 42.17.090 (1)(K))

WHO MUST REPORT

A political committee not domiciled in the State of Washington, a federal committee or other committee not required to register under Washington law, which has made contributions to a state or local candidate or political committee in Washington state.

WHEN TO REPORT

A C-5 report is due within ten days of a Washington state candidate or political committee receiving a contribution of more than \$50 from an out-of-state or federal PAC. After filing an initial C-5 report, subsequent reports during the same calendar year may be filed by letter updating or amending the information previously reported. These follow-up reports are also due within ten days of the contribution's receipt.

SEND REPORT TO

Public Disclosure Commission
711 Capitol Way, Room 403
PO Box 40908
Olympia, WA 98504-0908

VIOLATIONS AND PENALTIES

- Candidates for legislative office have a contribution limit of \$500 per election. Candidates for statewide executive office have a limit of \$1,000 per election. Each primary and general is a separate election.
- It is a violation of law for any person to make, or for any political committee or any local or judicial candidate to accept from any one person, contributions in the aggregate exceeding \$5,000 within 21 days of a general election
- Failure to report contributions and file the information required by this report within 10 days after the Washington candidate or committee receives the funds will cause the funds to be returned or forfeited to the state.

EMERGENCY

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

WSR 94-01-041
EMERGENCY RULES
UTILITIES AND TRANSPORTATION
COMMISSION

[Order R-403, Docket No. TV-930886—Filed December 6, 1993, 4:42 p.m.]

In the matter of amending WAC 480-12-030, 480-12-126, 480-12-127, 480-12-130, 480-12-135, and 480-12-350 and adopting WAC 480-12-131 relating to compliance with base state registration requirements.

This is an emergency rulemaking proceeding that is designed to amend and adopt rules immediately.

The Washington Utilities and Transportation Commission is conducting this rulemaking pursuant to RCW 80.01.040 and 34.05.350. This proceeding complies with the Open Public Meetings Act (chapter 42.30 RCW), the Administrative Procedure Act (chapter 34.05 RCW), the State Register Act (chapter 34.08 RCW), the State Environmental Policy Act (chapter 43.21C RCW), and the Regulatory Fairness Act (chapter 19.85 RCW).

The facts requiring emergency action are as follows: The federal Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA), codified at 49 USC Sec. 11506, has been enacted, and the Interstate Commerce Commission has promulgated rules under the act. Together, the laws and rules require termination of existing Washington state regulation of interstate motor carrier activity, and state requirements for states who wish to register interstate carriers for activity occurring after January 1, 1994.

The commission promulgated emergency rules in Docket No. TV-930886, August 1993, by which it began allowing registration for interstate activity to be conducted during 1994, and on November 3, 1993, filed rules with the code reviser to take effect January 1, 1994, to implement the program on a permanent basis. However, because existing interstate regulation must continue until December 31, 1993, because registration must be allowed to continue for activity to be conducted after January 1, 1994, and because the existing emergency rules permitting such registration for activity to be conducted after January 1, expire 120 days after filing, emergency rules are again needed to fill the gap.

The amendment to WAC 480-12-030 operates to amend the permanent rule filed on November 3, 1993, and effective on December 4, 1993. The amendment applies to preserve existing provisions of law for interstate activities conducted prior to January 1, 1994. The remaining emergency amendments apply only to registration occurring before January 1, 1994, for interstate operations to be conducted on or after that date. They preserve the existing regulations for operations conducted prior to that time.

The Washington Utilities and Transportation Commission finds that an emergency exists. It finds that the provisions of federal law and regulation, and the provisions of Washington state law, require immediate action to preserve existing interstate registration systems for interstate activity to be conducted before January 1, 1994, and for activity to be conducted on or after that date.

These amendments adversely affect no economic values, and they have no adverse effect on the environment.

In reviewing the entire record, the commission determines that it should amend WAC 480-12-030, 480-12-126, 480-12-127, 480-12-130, 480-12-135, and 480-12-350 and that it should adopt WAC 480-12-131 to read as set forth in Appendix A, shown below and included in it by this reference, to be effective as follows: These emergency rules shall be effective on December 4, 1993, and shall cease to be effective at midnight on December 31, 1993.

ORDER

THE COMMISSION ORDERS That WAC 480-12-030, 480-12-126, 480-12-127, 480-12-130, 480-12-135, and 480-12-350 are amended and WAC 480-12-131 is adopted as set forth in Appendix A, shown below, to take effect immediately and shall cease to be effective at midnight, December 31, 1993, pursuant to RCW 34.05.350 and 34.05.380(2).

THE COMMISSION ALSO ORDERS That this order and the rules set out in Appendix A to this order, after being first recorded in the order register of the Washington Utilities and Transportation Commission, shall be forwarded to the code reviser for filing pursuant to chapter 34.05 RCW and chapter 1-21 WAC.

DATED at Olympia, Washington, and effective this 6th day of December 1993.

Washington Utilities and Transportation Commission
Sharon L. Nelson, Chairman
Richard Hemstad, Commissioner

APPENDIX A

[**AMENDATORY SECTION** (Amending Order R-398, Docket No. A-930791, filed 11/3/93)]

WAC 480-12-030 Applications. (1) Intrastate authority. Applications to acquire temporary or permanent common or contract motor carrier authority by transfer, by acquisition of control, or by demonstration of need and/or public interest shall be made on forms furnished by the commission and shall contain all the information, documents, and exhibits called for in the form or the form's instructions. No application will be accepted for filing unless it is accompanied by the required fee. The fee for applications seeking original or extended permanent authority, or the transfer or acquisition of existing authority, shall be five hundred fifty dollars; it shall be two hundred fifty dollars for applications for temporary authority, two hundred fifty dollars for applications for reinstatement of permits under WAC 480-12-065 if filed within thirty days after cancellation, fifty dollars for applications for emergency temporary authority, and thirty-five dollars for applications for change of corporate name. The commission may refuse to accept applications until all required information is supplied and until the authority sought to be acquired or retained has been expressed in clear and acceptable permit terminology. The commission's acceptance of an application for filing does not indicate the commission's approval of proposed permit language or requested effect of the application, nor is the commission thereafter foreclosed from finding that the

information presented in the application is insufficient. An applicant for partial transfer must also submit a proposed revision of the retained portion of the permit complying with WAC 480-12-050(5), which will be docketed with the transfer application.

(2) Interstate authority. ~~((Each carrier operating in interstate commerce on the public roads of the state of Washington shall apply to register its insurance with the commission pursuant to WAC 480-12-126 through 480-12-135. Every such application shall be granted if it contains all necessary information and documentation, if the information provided is true and correct, and if the required fee is paid.))~~ Applications to register ICC operating authority with the commission shall be accompanied by the fee of twenty-five dollars for motor carriers who have not previously filed currently effective applications for such registration and the fee of ten dollars for motor carriers who have previously filed currently effective applications for such registration.

(3) All exhibits or papers submitted with an application must be legibly written or typed on one side only of 8 1/2 by 11 inch paper.

(4) Applications for permits and for registration shall require that the applicant certify the truth of all information submitted with the application, under penalties of perjury. False, misleading, or incomplete information may subject the applicant to prosecution, to civil penalties, or to revocation or suspension of authority.

(5) This amendatory section shall apply only with regard to interstate operations that are or are to be, conducted on or before December 31, 1993. The existing rule shall apply to intrastate operations and to interstate operations to be conducted on or after January 1, 1994.

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

AMENDATORY SECTION (Amending Order R-50, filed 8/8/73)

WAC 480-12-126 ((Registration of interstate authority.)) Interstate operations; requirements; definitions. It shall be unlawful for any carrier to perform ~~((a))~~ any interstate transportation service for compensation upon the public ~~((highways))~~ roads of this state without first having secured appropriate authority from the Interstate Commerce Commission, if ~~((such))~~ that authority is required, and without ~~((first having registered such authority, if any, with the commission.~~

~~It shall also be unlawful for a carrier to perform a transportation service for compensation on the public highways of this state as an interstate carrier of commodities included in the exemptions provided in section 203(b) of the Interstate Commerce Act without having first registered as such a carrier with the commission.~~

~~Such registration shall be granted upon application, without hearing, upon payment of the appropriate filing fee, as set by WAC 480-12-030))~~ possessing valid insurance and valid evidence that it has registered as specified in these rules.

(1) Registered carriers. Carriers operating in interstate or foreign commerce under authority issued by the Interstate Commerce Commission are "registered carriers."

(2) Registered exempt carriers. Carriers operating in interstate or foreign commerce under the exemptions of the Federal Motor Carrier Act without interstate authority issued by the Interstate Commerce Commission are "registered exempt carriers."

(3) Compliance required. Registered and registered exempt carriers in the conduct of interstate operations must comply with the laws and rules that apply to that activity and to equipment in which it is conducted. Interstate carriers conducting Washington intrastate operations must, as to the intrastate activity, comply with the laws and rules applicable to the activity and to equipment in which it is conducted.

(4) Trip permits. A carrier operating in interstate commerce on the public roads of this state but who has not registered the vehicle's insurance with Washington through its base state, if required to do so, or with the commission, if operating under interstate exemption, must secure a trip permit for each interstate trip as provided in WAC 480-12-131.

(5) This amendatory section shall apply only with regard to interstate operations that are, or are to be, conducted on or after January 1, 1994. WAC 480-12-126 as in effect prior to this amendment shall apply to intrastate operations and to interstate operations to be conducted on or before December 31, 1993.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

AMENDATORY SECTION (Amending Order R-276, Cause No. TV-2092, filed 9/17/87)

WAC 480-12-127 Registered carriers. ((1)) ~~Carriers engaged exclusively in interstate or foreign commerce are declared to be registered carriers. Those operating under authority issued by the Interstate Commerce Commission shall have their registration number prefixed by "RC." Those operating under the exemptions of the Federal Motor Carrier Act shall be prefixed "RE." Those presently holding permits with the Washington utilities and transportation commission shall be automatically converted to registered carriers with the same registration number as under their present permit. Registered carriers need only comply with such rules and regulations as specifically refer to them or to equipment operated exclusively in interstate commerce across or between points in the state and points outside of the state.~~

~~(2) By reference, the Washington utilities and transportation commission hereby adopts the rules promulgated by the National Association of Regulatory Utility Commissioners and adopted by the Interstate Commerce Commission under PL 89-170 and codified as Part 1023 of Title 49 of the Code of Federal Regulations. Notwithstanding the provisions of any rule herein contained, carriers who qualify may elect to operate in strict accordance with such rules.~~

~~(3) "RC" carriers may meet insurance requirements by filing with the Washington utilities and transportation commission a copy of their insurance filing with the Interstate Commerce Commission. "RE" carriers must meet the same insurance requirements as for permit holders as~~

required by WAC 480-12-350, 480-12-355, 480-12-360 and 480-12-365-)) (1) It shall be unlawful for a carrier operating under authority issued by the Interstate Commerce Commission to operate a vehicle in interstate commerce on the public roads of this state without having first secured valid insurance as required by the Interstate Commerce Commission, registered with a base state as required in 49 CFR Part 1023, paid the required Washington state registration fee for that vehicle, and without having in the vehicle a legible receipt showing base state registration. The receipt shall be subject to inspection at all times by the law enforcement agents and the commission's representatives. In the alternative, the carrier shall first purchase a valid trip permit as provided in WAC 480-12-131.

(2) The registration fee for registered carriers in Washington state is ten dollars for each vehicle operated within the state.

(3) Washington-based carriers. Washington is a participant in the base state insurance registration program established in 49 USC § 11506 and 49 CFR Part 1023. Any carrier whose base state as defined in federal regulation is Washington state shall register for interstate operations as follows:

(a) Between August 1 and November 30 of each year, each such Washington-based interstate carrier shall apply to the commission to register for the following year.

(b) The registering carrier shall state the number of vehicles to be operated in each participating state, provide other required information, and submit the registration fee established by that state for each such vehicle.

(c) The commission within thirty days will provide to the carrier a receipt or receipts showing, at a minimum, the carrier's name and address, its ICC permit number, and the names of the states for which it has registered.

(d) The carrier shall place a receipt or an authorized copy in each vehicle for which it has paid the required fee.

(e) Any Washington-based carrier that begins interstate operations in a state for which it has not registered may register for that state at any time, stating the number of vehicles to be operated in each state and submitting the required information and registration fee for each vehicle. The commission will provide a new receipt, if the carrier has not previously registered, or supplemental receipt, if it has registered, showing the states for which the carrier has registered.

(4) No carrier may operate a vehicle in Washington state that is not registered as specified in this rule unless it is registered for interstate exempt traffic under WAC 480-12-130 or unless it is operated under a trip permit as provided in WAC 480-12-131.

(5) This amendatory section shall apply only with regard to interstate operations that are, or are to be, conducted on or after January 1, 1994. WAC 480-12-127 as in effect prior to this amendment shall apply to intrastate operations and to interstate operations to be conducted on or before December 31, 1993.

AMENDATORY SECTION (Amending Order R-348, Docket No. TV-910903, filed 9/17/91, effective 10/18/91)

~~WAC 480-12-130 ((Identification cards—Amendment—Substitution.)) Interstate exempt carriers. ((1) No vehicle or combination of vehicles operated by a common or contract carrier or registered carrier upon the highways of this state or the streets of regulated cities shall be so operated without having available within the cab of the motive power vehicle a valid identification cab card properly signed and with appropriate stamp affixed. Such identification card shall be subject to inspection by the commission's representatives at all times.~~

(2) An application for sufficient number of identification stamps shall be filed with the commission, accompanied by the necessary stamp and regulatory fee, during the month of October each year, or at any time thereafter that additional stamps are required. Such application shall be on forms furnished by the commission. Except as provided in subsection (3) of this section, the schedule of stamp and maximum regulatory fees is as follows:

| GROSS LICENSED WEIGHT | STAMP FEE | REGULATORY FEE |
|-----------------------|-----------|----------------|
| Less than 4,000 lbs. | \$10.00 | \$ 7.00 |
| 4,000 to 7,999 lbs. | 10.00 | 9.00 |
| 8,000 to 11,999 lbs. | 10.00 | 11.00 |
| 12,000 to 15,999 lbs. | 10.00 | 13.00 |
| 16,000 to 19,999 lbs. | 10.00 | 15.00 |
| 20,000 to 23,999 lbs. | 10.00 | 17.00 |
| 24,000 to 27,999 lbs. | 10.00 | 19.00 |
| 28,000 to 31,999 lbs. | 10.00 | 21.00 |
| 32,000 to 35,999 lbs. | 10.00 | 23.00 |
| 36,000 to 39,999 lbs. | 10.00 | 30.00 |
| 40,000 to 43,999 lbs. | 10.00 | 32.00 |
| 44,000 to 47,999 lbs. | 10.00 | 34.00 |
| 48,000 to 51,999 lbs. | 10.00 | 36.00 |
| 52,000 to 55,999 lbs. | 10.00 | 38.00 |
| 56,000 to 59,999 lbs. | 10.00 | 40.00 |
| 60,000 to 63,999 lbs. | 10.00 | 42.00 |
| 64,000 to 67,999 lbs. | 10.00 | 44.00 |
| 68,000 to 71,999 lbs. | 10.00 | 46.00 |
| 72,000 to 75,999 lbs. | 10.00 | 48.00 |

Note: The above regulatory fees are maximum only. Under RCW 81.80.320 the commission may, by general order entered before October 1 of any year, reduce the fees on a proportional basis.

(3) The stamp fee named in subsection (2) applies to each stamp applied for. The regulatory fee is also payable in connection with each stamp and is determined as follows:

(a) On any "solo" vehicle, or in combinations pulling any trailer operated either in intrastate or interstate commerce, the regulatory fee shall be as stated in subsection (2) and shall be based upon the maximum gross weight thereof as set by the carrier in his application for his regular license plates plus any additional tonnage or log tolerance permits. In the event that trailers or semitrailers are separately licensed for gross weight and not included within the licensed gross weight of the motive power unit, the fees provided herein shall be computed on the basis of the licensed gross weight of the trailers, plus additional weight fees if any, in which case a separate identification cab card

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will be issued for such trailers in the same manner as for a motive power vehicle.

(b) In lieu of the payment of a full regulatory fee for each vehicle or combination of vehicles operated across or between points in the state and points outside the state exclusively in interstate or foreign commerce, and as to vehicles operated between points in this state and points outside the state in interstate commerce as well as points within this state in intrastate commerce, the regulatory fee may, at the request of the carrier, be paid on the basis of one of the following options:

Option 1. Floater regulatory fee cards.

Carriers who operate vehicles between points in this state and points outside this state exclusively in interstate commerce, and carriers who operate fleets in excess of 200 motive power units between points in this state and points outside this state in interstate commerce as well as points within this state in intrastate commerce may elect to purchase unassigned regulatory fee receipts at one hundred fifty percent of the applicable gross weight fee stated in subsection (2). One of these regulatory fee receipts must be carried within the cab of the motive power vehicle when such equipment is operated in this state and must be accompanied by a properly executed National Association of Regulatory Utility Commissioners uniform identification cab card and Washington utilities and transportation commission identification stamp. When applied for in this manner the fee must be that for the highest gross licensed weight of such solo or combination with which the receipt showing the payment of regulatory fees may be used.

The carrier must purchase for three dollars an identification stamp for each power unit.

In the case of unladen automobiles and trucks operated in interstate driveaway service across or between points in the state and points outside the state, the carrier may use unassigned National Association of Regulatory Utility Commissioners uniform identification cab cards and Washington utilities and transportation commission identification stamps upon payment of one hundred fifty percent of the applicable gross weight fee and the three dollar stamp fee for each unassigned cab card and stamp.

Option 2. Lump sum regulatory fee payment.

Carriers who operate fleets in excess of 200 motive power vehicles either exclusively in interstate or foreign commerce across or between points in this state and points outside this state or between points in this state and points outside this state in interstate commerce as well as points within this state in intrastate commerce, and who have so operated under Option 1, above, or this option for the immediately preceding calendar year, may elect to pay a lump sum regulatory fee based on the number of power units for which identification stamps have been purchased during the immediately preceding calendar year at the regulatory fee established by general order of the commission entered before October 1st of any year. These carriers must purchase a three dollar identification stamp for each power unit. With a properly executed National Association of Regulatory Utility Commissioners uniform identification cab card and Washington utilities and transportation commission identification stamp attached, no proof of regulatory fee payment need be carried.

Option 3. Single trip transit permit.

Carriers engaged exclusively in casual or occasional interstate or foreign commerce across or between points in the state and points outside the state may as in alternative to all other requirements of this chapter obtain a single trip transit permit, valid for ten days, authorizing a one way trip into, out of or across the state. This permit will be issued upon payment of a fee of ten dollars and must be carried in the cab of the power vehicle. The carrier must state the name and policy number or binder of the insurance company with whom the carrier has insurance which meets the provisions of WAC 480-12-350.

Option 4. Single trip regulatory fee card.

A carrier registered with the Washington utilities and transportation commission to engage in interstate or foreign commerce across or between points in this state and points outside of this state, may purchase single trip regulatory fee cards, valid for seventy two hours, authorizing a trip into, out of or across this state, for a fee of ten dollars each.

Prenumbered single trip regulatory fee cards must be purchased at any commission office or port of entry, or from an authorized commission field agent. The card must be carried in the power unit.

(e) In intrastate or interstate commerce between points within the state of Washington the identification cab card and stamp may, at the request of the carrier, not be assigned to any particular motive power vehicle under the following circumstances:

(i) In connection with trucks or tractors to be operated under master leasing agreements provided for in WAC 480-12-210 (1)(h), in which case the cab card may be used only with vehicles operated under such master leasing agreements; and

(ii) In connection with unladen automobiles or trucks in driveaway service, in which case the cab card may be used only with such vehicles in driveaway service. The fees shall be as stated in subsection (3)(a) for the highest gross licensed weight (highest actual weight in driveaway service) on any power vehicle with which the identification cab card and stamp may be used.

(d) In intrastate commerce between points within the state of Washington, a common or contract carrier acquiring the use of private carrier equipment under the provisions of WAC 480-12-210 (1)(e) may, in connection with short term leases, elect to purchase single trip regulatory fee cards, valid for seventy two hours, authorizing a one way trip between points within this state, for a fee of ten dollars each, in lieu of payment of the full regulatory fee.

Prenumbered single trip regulatory fee cards must be purchased in advance and no refunds will be allowed for unused cards. Cards must be filled out, in ink or by typewriter, by the carrier, showing the description of the vehicle, license number, state in which the vehicle is licensed, name of owner, the commodity to be transported, the origin and destination of the shipment and be signed by an officer, agent or employee of the carrier authorized to use the card. The card must be carried in the power unit. The vehicle operating under a single trip regulatory fee card shall be under the control and direction of the motor carrier issuing the card and shall be used only within the scope of the authority of that motor carrier.

At the end of each calendar month a report shall be sent to the commission, showing the card number, date used, origin of shipment, destination of shipment and vehicle number.

(4) On any truck or tractor for which the licensed capacity is increased during the year an IMMEDIATE APPLICATION accompanied by the amount of the increase in regulatory fee is necessary. The commission will provide for amendment of the cab card accordingly.

(5) No refund will be made on unused stamps.

(6) Any "lost" stamps will be replaced only at full stamp and regulatory fee. *Provided, however,* That in unusual circumstances the commission may, by order, waive all or a portion of the replacement cost.

(7) Each carrier shall obtain from the Washington utilities and transportation commission or from the National Association of Regulatory Utility Commissioners a sufficient number of blank identification cab cards to satisfy its requirements. Equipment which is used exclusively within the state, i.e., does not cross the state line, shall use the Washington utilities and transportation commission prescribed identification cab card. Equipment which is used exclusively in interstate or foreign commerce which crosses the state line shall use the National Association of Regulatory Utility Commissioners uniform identification cab card. Equipment used in both types of operation may use either cab card, however it is recommended that the National Association of Regulatory Utility Commissioners uniform identification cab card be used. Upon receipt of stamps from the commission, an identification cab card shall be duly completed by the carrier for each motive power unit and the appropriate stamp firmly affixed thereto. Such identification cab card shall be placed in the cab of each power unit in accordance with subsection (1).

(8) All identification cab cards and stamps issued for a particular calendar year expire January 31 of each succeeding year. However a stamp may be issued for the ensuing calendar year on or after the first day of October preceding, and may be used from the date of issue.

(9) When a permit is revised or extended, the commission will provide a new copy of the revised or extended authority to be retained on the carrier's vehicle(s), in addition to the cab card.

(10) All delinquent stamp fees, regulatory fees, tariff fees and tariff maintenance fees which are due and payable by the carrier to the commission must be paid at the time application is made. The commission may refuse to issue identification stamps until all such fees are paid.

(11) An identification cab card may be reassigned to a substituted vehicle (power unit) only when the original vehicle has been destroyed or is being permanently withdrawn from the ownership or possession of the permittee.)

(1) No carrier may operate any vehicle or combination of vehicles upon the public roads of this state in interstate commerce under the exemptions of the Federal Motor Carrier Act without first registering with the commission and having available within the cab of the motive power vehicle a valid receipt showing that the carrier has provided Washington state with proof of insurance and paid the per-vehicle fee established by order of the commission. The receipt shall be subject to inspection by law enforcement agents and the commission's representatives at all times. In the

alternative, the carrier shall first purchase a valid trip permit as provided in WAC 480-12-131.

(2) Each carrier conducting interstate exempt operations in interstate commerce within the state may apply to register its insurance between August 1 and November 30 of each year, or at any time thereafter when it begins interstate exempt operations within the state or when it identifies additional vehicles as operating in the state. Each application shall be on forms furnished by the commission and accompanied by the required fee.

(3) All receipts issued for a calendar year expire December 31 of that year. A receipt may be issued for the ensuing calendar year on or after the first day of the preceding August.

(4) All delinquent fees or penalties which are due and payable by the carrier to the commission must be paid at the time an application is made. The commission may refuse to issue a receipt until all such fees are paid.

(5) This amendatory section shall apply only with regard to interstate operations that are, or are to be, conducted on or after January 1, 1994. WAC 480-12-130 as in effect prior to this amendment shall apply to intrastate operations and to interstate operations to be conducted on or before December 31, 1993.

NEW SECTION

WAC 480-12-131 Interstate trip permits. Single trip transit permit. A carrier conducting casual or occasional interstate or foreign commerce on the public roads of Washington state may as an alternative to other interstate carrier registration requirements obtain a single trip transit permit, valid for ten days, authorizing a one-way trip into, within, out of or across the state.

(1) Application. The carrier must present evidence that the carrier has insurance that meets the requirements of WAC 480-12-350 and provide the name and policy number or binder of the insurance company. The carrier shall also provide a description of the vehicle, its license number, the state in which the vehicle is licensed, the name of its owner, the cargo, and the origin and destination of the shipment. The permit will be issued upon payment of a fee of twenty dollars.

(2) The permit must be carried in the cab of the power vehicle. The permit shall be subject to inspection at all times by the law enforcement agents and the commission's representatives. A vehicle operating under a trip permit shall be under the control and direction of the motor carrier purchasing the permit and shall be used only within the scope of the carrier's authority and within the terms of the trip permit.

(3) This emergency section shall apply only with regard to interstate operations that are, or are to be, conducted on or after January 1, 1994.

AMENDATORY SECTION (Amending Order R-276, Cause No. TV-2092, filed 9/17/87)

WAC 480-12-135 ((Cards)) Permits and receipts—Return required—Loss ((of—)) improper use of cards or stamps. (((1) Upon revocation of a permit or cessation or abandonment of service under a permit, or when equipment is repossessed, the holder thereof shall immediately return to

~~the commission the original permit, together with identification cab cards.~~

~~(2) The loss of identification cab cards and/or stamps shall be immediately reported to the commission.~~

~~(3) The use of an identification cab card by any person or firm other than the carrier to whom the stamp was issued is unlawful.~~

~~(4) The use of an identification cab card without the appropriate stamp firmly affixed is unlawful.~~

~~(5) Except as unassigned identification cab cards are properly used as provided for in WAC 480-12-130, each motive power vehicle must have its own assigned identification cab card, and the use of a card on a vehicle other than the one for which it has been prepared is unlawful.)~~

(1) When the commission revokes a permit or a receipt that it has issued, when a carrier stops or abandons service under a permit or receipt, or when a carrier's vehicle equipment is sold, abandoned, or repossessed, the holder of the permit or receipt shall immediately return to the commission each original permit or receipt.

(2) A carrier shall report to the commission immediately the physical loss or destruction of a permit or receipt that the commission issued. The commission will replace a physically lost or destroyed current permit or registration receipt that it has issued, upon receiving a written application for replacement stating the reason replacement is needed.

(3) The use of a permit or registration receipt by any person or firm other than the carrier to whom it was issued is unlawful.

(4) This amendatory section shall apply only with regard to interstate operations that are, or are to be, conducted on or after January 1, 1994. WAC 480-12-135 as in effect prior to this amendment shall apply to intrastate operations and to interstate operations to be conducted on or before December 31, 1993.

AMENDATORY SECTION (Amending Order R-268, Cause No. TV-2002, filed 12/5/86)

WAC 480-12-350 Insurance. Within ten days after the date an applicant is notified ~~((his))~~ that its application has been granted, ~~((and before permit shall be issued))~~ as a condition to issuing the permit, the applicant shall file with the commission evidence of currently effective liability and property damage insurance ~~((having been))~~ written by a company authorized to write such insurance in the state of Washington, covering each motor vehicle as defined in RCW 81.80.010 used or to be used under the permit granted, in the amount shown on the following table:

| Commodity Transported | ((July 1 January 1 1983 1985)) |
|---|---|
| (1) Property (nonhazardous) | ((\$ 500,000)) \$ 750,000 |
| (2) Hazardous substances, as defined in 49 CFR 171.8 transported in cargo tanks, portable tanks, or hopper-type vehicles with capacities in excess of 3,500 water gallons; or in bulk Class A or B explosives, poison gas (Poison A), liquified compressed gas or compressed gas; or highway route controlled | ((1,000,000)) 5,000,000 |

quantity radioactive materials as defined in 49 CFR 173.455.

(3) Oil listed in 49 CFR 172.101; hazardous waste, hazardous materials and hazardous substances defined in 49 CFR 171.8 and listed in 49 CFR 172.101, but not mentioned in (2) above or (4) below. ~~((500,000))~~ 1,000,000

(4) Any quantity of Class A or B explosives; any quantity of poison gas (Poison A); or highway route controlled quantity radioactive materials as defined in 49 CFR 173.455. ~~((1,000,000))~~ 5,000,000

~~((The above amounts do not apply to))~~ Taxicabs whose only operation subject to commission jurisdiction is the operation of ~~((express))~~ small parcel general freight service under a permit issued pursuant to chapter 81.80 RCW ~~((= Provided, That such carrier is in compliance))~~ shall comply with the provisions of RCW 46.72.040 and 46.72.050 in lieu of the above. Such carriers must ~~((also))~~ comply with the reporting requirements ~~((set forth in))~~ of this section.

Applications for permits to operate as temporary common carriers or temporary contract carriers shall be accompanied by evidence of the insurance coverage as required herein.

Carriers registering under WAC 480-12-127 as registered interstate carriers may provide evidence of insurance in the amount prescribed by the Interstate Commerce Commission written by a company authorized to write insurance in any state.

Failure to file and keep such insurance in full force and effect shall be cause for dismissal of an application or cancellation of a permit.

Evidence of insurance shall be submitted either on a ~~((=))~~ uniform motor carrier bodily injury and property damage liability certificate of insurance, ~~((= (Form E)))~~ filed in triplicate with the commission, or a written binder issued by an insurance agent or insurance company evidencing the ~~((same))~~ coverages as ~~((hereinabove))~~ required above. If a binder is submitted, ~~((the binder))~~ it shall be effective for not longer than sixty days, during which time the carrier must file the required ~~((Form E shall be filed. Insurance presently on file for existing permit holders shall be sufficient. Provided, The requirements set forth above are in effect))~~ evidence of insurance.

This amendatory section shall apply only with regard to interstate operations that are, or are to be, conducted on or after January 1, 1994. WAC 480-12-350 as in effect prior to this amendment shall apply to intrastate operations and to interstate operations conducted or to be conducted on or before December 31, 1993.

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WSR 94-01-063
RESCISSION OF EMERGENCY RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
(Institutions)

[Order 3681—Filed December 8, 1993, 3:23 p.m., effective December 9, 1993, 12:01 a.m.]

Date of Adoption: December 8, 1993.

Purpose: Rescind WSR 93-21-077 filed October 20, 1993, as the Division of Developmental Disabilities does not want language as written within WAC 275-27-220, 275-27-221, and 275-27-223. A supplemental notice to this effect is filed December 8, 1993, stating another hearing is scheduled for January 25, 1994.

Citation of Existing Rules Affected by this Order: Rescinding WAC 275-27-220 Family support services, 275-27-221 Family financial participation, and 275-27-223 Service need levels.

Effective Date of Rule: December 9, 1993, 12:01 a.m.

December 8, 1993
Dewey Brock, Chief
Office of Vendor Services

WSR 94-01-064
EMERGENCY RULES
DEPARTMENT OF
SOCIAL AND HEALTH SERVICES
(Institutions)

[Order 3682—Filed December 8, 1993, 3:24 p.m., effective December 9, 1993, 12:01 a.m.]

Date of Adoption: December 8, 1993.

Purpose: New WAC 275-27-221 Family financial participation, requires families receiving family support services to provide the department information regarding family income and family size. To include the incremental formula for determining the families' ability to participate in the purchase of needed services. Defines gross family income, dependents, family, and disability-related expenses.

Citation of Existing Rules Affected by this Order: Amending WAC 275-27-220 Family support services and 275-27-223 Service need levels.

Statutory Authority for Adoption: RCW 71A.12.040.

Other Authority: RCW 43.43.745.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: 1993 legislature reduced the division's family support budget with the expectation that the division would implement a family financial participation program.

Effective Date of Rule: December 9, 1993, 12:01 a.m.

December 8, 1993
Dewey Brock, Chief
Office of Vendor Services

AMENDATORY SECTION (Amending Order 3372, filed 4/21/92, effective 5/22/92)

WAC 275-27-220 Family support services. (1) The department's intent of family support services shall be to:

(a) Reduce or eliminate the need for out-of-home residential placement of a client (~~(wherein)~~) where the in-home placement is in the client's best interest;

(b) Allow a client to live in the most independent setting possible; and

(c) Have access to services best suited to a client's needs.

(2) The department's family support services shall include, but not be limited to, the following services:

(a) Emergency or planned respite care;

(b) Attendant care;

(c) Therapeutic services, including:

(i) Physical therapy;

(ii) Occupational therapy;

(iii) Behavior management therapy; and

(iv) Communication therapy.

(d) The purchase, rental, loan, or refurbishment of specialized equipment, environmental modifications, and other adaptations; and

(e) Other service (~~(pursuant to)~~) approved by the director or designee as described under subsection (1) of this section (~~(approved by the director or designee)~~).

(3) The department shall authorize services to the family for a specified time-limited period.

(a) A departmental service authorization shall state the type, amount, and period (duration) of service. Each department authorization shall constitute a new service for a new period.

(b) If requested family support services are not authorized, such actions shall be deemed a denial of services.

(c) Family support services may be authorized below the amount requested by the family for the period. When, during the authorized service period, family support services are reduced or terminated below the amount specified in service authorizations, the department shall deem such actions as a reduction or termination of services.

(4) The department shall authorize family support services in accordance with department-established policies (~~(established by the department)~~). The department shall base periodic service authorizations on:

(a) Requests for family support services described in subsection (2) of this section;

(b) Service need levels as described in section 223 of this chapter;

(c) Availability of family support funding; (~~(and)~~)

(d) The family's ability to purchase services required by a minor client as described under WAC 275-27-221 based on family-provided financial information; and

(e) Authorization by a review committee, in each regional office, which reviews each request for service; and

(5) The department shall authorize family support services contingent upon the applicant providing accurate and complete information concerning family income and disability-related expenses as requested by the department. An applicant's failure to provide accurate and complete information may result in reduction in the family's family support service authorization. The department shall ensure

such reduction does not result in family participation beyond that required by the actual level of family income and disability-related expenses for the period in question.

(6) The department shall ensure service authorizations do not exceed maximum amounts for each service need level based on the availability of funds.

(7) The department shall not authorize a birth parent, adoptive parent, or stepparent living in the same household as the client as the direct care provider for respite, attendant, nursing, therapy, or counseling services for a child seventeen years of age or younger.

NEW SECTION

WAC 275-27-221 Family financial participation. (1)

"Dependent" means a relative who depends on the family income for at least half of the relative's support.

(2) "Disability-related expenses" means the:

(a) Most recent annual expenses provided by the family to eligible clients including bills from physician, dentists, and other medical professionals;

(b) Clients' health insurance premiums and/or medical spenddown;

(c) Amounts paid to rent or purchase medical equipment;

(d) Amounts paid for modification of homes or vehicles to accommodate the eligible children;

(e) Specialized clothing;

(f) Exceptional child care and other disability-related expenses.

(3) "Family" means a person or a person and the person's spouse, if not legally separated, and the person's dependents.

(4) "Gross family income" means the total income of all members of a family. Income includes:

(a) Earned income, such as wages and tips;

(b) Unearned income, such as interest, dividends, and pensions;

(c) Family's share of income from S corporations (domestic corporation with one class of stock having thirty-five or less shareholders, who are U.S. citizens), partnerships, estates, and trusts;

(d) Gains from the sale or exchange (including barter) of real estate, securities, coins, gold, silver, gems, or other property;

(e) Gain from the sale or exchange of the family's main home;

(f) Accumulation distributions from trusts;

(g) Scholarships and fellowship grants;

(h) Original issue discount, distribution from simplified employee pensions (SEPs) and deductible employee contributions (DECs);

(i) Amounts received in place of wages from accident and health plans if employer paid for the policy;

(j) Bartering income, Tier 2 and supplemental annuities under the Railroad Retirement Act;

(k) Life insurance proceeds from a policy the family cashed in if the proceeds are more than the premiums paid;

(l) Endowments;

(m) Lump-sum distributions;

(n) Prizes and awards;

(o) Gambling winnings;

(p) Social Security;

(q) Capital gains; and

(r) Child support.

(s) Income does not include earned income by dependent family members, nor income of a family member who resides in another household when such income is not available to the family member seeking family support services.

(5) Based on the level of family support services authorized under WAC 275-27-220(4) for a client who is seventeen years of age or younger, in order to be authorized for family support services, each family shall provide the department with accurate and complete information sufficient to assess the family's ability to participate in the purchase of family support services. This information includes:

(a) Family's annual gross income;

(b) Family size; and

(c) Client's disability-related expenses.

(6) The department shall make an assessment of the family's ability to purchase services required by the client as follows:

(a) Determine the annual gross income of the eligible client's family;

(b) Not require families, whose annual gross income is less than three hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, to participate in the purchase of family support services;

(c) Require families, whose annual gross income is three hundred percent or more of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, to participate in the purchase of the services according to the following incremental formula:

(i) For that portion of a family's income between three hundred percent and four hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be six percent times that portion of the family's reported income;

(ii) In addition, for that portion of a family's income between four hundred percent and five hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be six and one-half percent times that portion of the family's reported income;

(iii) In addition, for that portion of a family's income between five hundred percent and six hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be seven percent times that portion of the family's reported income;

(iv) In addition, for that portion of a family's income between six hundred percent and seven hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be seven and one-half percent times that portion of the family's reported income;

(v) In addition, for that portion of a family's income between seven hundred percent and eight hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial

participation shall be eight percent times that portion of the family's reported income;

(vi) In addition, for that portion of a family's income between eight hundred percent and nine hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be eight and one-half percent times that portion of the family's reported income;

(vii) In addition, for that portion of a family's income between nine hundred percent and one thousand percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be nine percent times that portion of the family's reported income;

(viii) In addition, for that portion of a family's income between one thousand percent and eleven hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be nine and one-half percent times that portion of the family's reported income;

(ix) In addition, for that portion of a family's income between eleven hundred percent and fourteen hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size, family financial participation shall be ten percent times that portion of the family's reported income; and

(x) The department shall not authorize family support services for families whose annual gross income is over fourteen hundred percent of the statewide need standard, rounded up to the next even one thousand dollars, based on family size.

(d) The department shall adjust the annual gross income downward for annual disability-related expenses incurred by the family for eligible clients.

(7) The department may re-evaluate at any time the ability of a family to purchase required family support services under this subsection, but not less than once per year or when the department believes there is a change of factors that determine ability to purchase services including family income and family size.

(8) The department shall recompute the required level of participation as described under subsection (7) of this section if the department's re-evaluation reveals a difference of one hundred twenty dollars per year or more between the:

(a) Family's current ability to participate in the purchase of family support services; and

(b) Level of financial participation most recently determined by the department.

(9) The department may recompute the level of participation when the difference is less than one hundred twenty dollars per year.

AMENDATORY SECTION (Amending Order 3372, filed 4/21/92, effective 5/22/92)

WAC 275-27-223 Service need levels. (1) The department shall use service need levels to determine periodic family support service authorizations.

(2) The department shall determine service need levels in order of priority for funding as follows:

(a) Service need level 1: Client is at immediate risk of out-of-home placement without the provision of family

support services. The client needs intensive residential support to assist the client's family to care for the family's child or adult requiring nursing services, attendant care, or support due to difficult behaviors. ~~((The client must receive the majority of family support services in such client's home. An existing or new eligible client must have received, over the most recent three months, at least ten days or eighty hours per month of such service;))~~ A client shall:

(i) Have received, over the past three months, at least ten days or eighty hours of service; or

(ii) Requires at least ten days or eighty hours per month of service to prevent immediate out-of-home placement, based upon an assessment conducted by the department;

(b) Service need level 2: Client is at high risk of out-of-home placement without the provision of family support services and has one or more of the following documented in writing:

(i) The client:

(A) Currently receives adult protective services or division of children and family services as an active:

(I) Child protective service client;

(II) Child welfare service client; or

(III) Family reconciliation service client.

(B) Has returned home from foster care or group care placement within the last six months;

(C) Has a serious medical problem requiring close and ongoing monitoring and/or specialized treatment, such as:

(I) Apnea monitor;

(II) Tracheotomy;

(III) Heart monitor;

(IV) Ventilator;

(V) Constant monitoring due to continuous seizures;

(VI) Immediate life-saving intervention due to life threatening seizures;

(VII) Short bowel syndrome; or

(VIII) Brittle bone syndrome.

(D) Has a dual diagnosis based on current mental health DSM Axis I diagnosis;

(E) Has an extreme behavioral challenge resulting in health and safety issues for self and/or others which:

(I) Resulted in serious physical injury to self or others within the last year;

(II) For a client who is two years of age or older, requires constant monitoring when awake for personal safety reasons; or

(III) Is of imminent danger to self or others as determined by a psychiatrist, psychologist, or other qualified professional.

(F) Is ten years of age or older or weighs forty pounds or more, requires lifting, and needs direct physical assistance in three or more of the following areas:

(I) Bathing;

(II) Toileting;

(III) Feeding;

(IV) Mobility; or

(V) Dressing.

(ii) The caregiver:

(A) Is a division of developmental disabilities client;

(B) Has a physical or medical problem that interferes with providing care; or

(C) Has serious mental health or substance abuse problems and:

(I) Is receiving counseling for these problems; or
 (II) Has received or applied for counseling within the past six months.

(c) Service need level 3: The family is at risk of significant deterioration which could result in an out-of-home placement of the client without provision of family support services due to the following:

(i) The client requires direct physical assistance, above what is typical for such client's age, in three or more of the following areas:

- (A) Bathing;
- (B) Toileting;
- (C) Feeding;
- (D) Mobility; or
- (E) Dressing.

(ii) The client has current behavioral episodes resulting in:

- (A) Physical injury to the client or others;
- (B) Substantial damage to property; and/or
- (C) Chronic sleep pattern disturbances or chronic continuous screaming behavior.

(iii) The client has medical problems requiring substantial extra care; and/or

(iv) The family is:

- (A) Experiencing acute and/or chronic stress;
- (B) Has acute or chronic physical limitations; or
- (C) Has acute or chronic mental or emotional limitations.

(d) Service need level 4: Family needs temporary or ongoing services in order to:

(i) Receive support to relieve and/or prevent stress of caregiver/family; or

(ii) Enhance the current functioning of the family.

(3) The department shall determine service need level of the client's service request by reviewing information received from the client, family, and other sources about:

(a) Whether client is an active recipient of services from the division of children and family services or adult protective services;

(b) Whether indicators of risk of out-of-home placement exist, and the imminence of such an event. The department's assessment of such risk may include:

(i) Review of family's requests for placement;

(ii) History of family's involvement with children's protective services or adult protective services;

(iii) Client's current adjustment;

(iv) Parental history of psychiatric hospitalization;

(v) Clinical assessment of family's condition; and

(vi) Statements from other professionals.

(c) Caregiver conditions, such as acute and/or chronic:

(i) ~~((Acute and/or chronic))~~ Stress;

(ii) ~~((Acute and/or chronic))~~ Physical limitations; and

(iii) ~~((Acute and/or chronic))~~ Mental and/or emotional impairments.

(d) Client's need for intense medical, physical, or behavioral support;

(e) Family's ability to use typical community resources;

(f) Availability of private, local, state, or federal resources to help meet the need for family support;

(g) Severity and chronicity of family or client problems; and

(h) Degree to which family support services will:

(i) Ameliorate or alleviate such problems; and

(ii) Reduce the risk of out-of-home placement.

~~(((4) Beginning May 1, 1992, the department's revised service need level definitions shall be in effect. The department's service need levels currently defined under section 223 of this chapter shall remain in effect through April 1992.))~~

WSR 94-01-069
EMERGENCY RULES
MULTIMODAL TRANSPORTATION
PROGRAMS AND PROJECTS
SELECTION COMMITTEE

[Filed December 9, 1993, 9:53 a.m.]

Date of Adoption: December 9, 1993.

Purpose: In response to a request of the Joint Administrative Rules Review Committee of the Washington state legislature, these rules control the committee's initial selection of programs and projects from applications required by section 8, chapter 393, Laws of 1993, and chapter 81.104 RCW.

Citation of Existing Rules Affected by this Order: Amending chapter 240-20 WAC.

Statutory Authority for Adoption: Chapter 393, Laws of 1993.

Other Authority: Chapter 81.104 RCW.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: Chapter 393, Laws of 1993, require the committee to adopt procedures to be incorporated into the Washington Administrative Code and to review and select applications, and award funds from the high capacity transportation account. This amendment is needed to clarify the project and program selection process, and is recommended by the JARRC.

Effective Date of Rule: Immediately.

December 9, 1993

Martha Choe

Chair

Chapter 240-20 WAC
Multimodal Transportation Programs and Projects
Selection Committee

AMENDED SECTION [NEW SECTION]

WAC 240-20-120 Competitive process. The committee shall select programs and projects competitively based on the criteria for each category of programs and projects set forth in WAC 240-20-100 and WAC 240-20-165.

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

NEW SECTION

WAC 240-20-160 High capacity transportation fund, application schedule. Applications for funding assistance from the high capacity transportation account shall be received by the committee by no later than 5:00 p.m. on March 4, 1994. The applications shall be mailed to the address identified in WAC 240-20-040, or delivered to the public transportation office of the department. The address of the public transportation office is 310 Maple Park, Room 1A18, Olympia, Washington.

NEW SECTION

WAC 240-20-165 High capacity transportation account, selection process. (1) Projects selected for funding from the high capacity transportation account shall be consistent with the following criteria:

- (a) Local, regional, and state transportation plans;
- (b) Local transit development plans; and
- (c) Local comprehensive land use plans.

(2) Applications for funding from the high capacity transportation fund shall be evaluated subject to the criteria found in RCW 81.104.090(1), RCW 81.104.090(2), and the following criteria shall be considered:

(a) Objectives of the growth management act, the high capacity transportation act, the commute trip reduction act, transportation demand management programs, federal and state air quality requirements, and federal Americans with Disabilities Act and related state accessibility requirements; and

(b) Energy efficiency issues, freight and goods movement as related to economic development, regional significance, rural isolation, the leveraging of other funds administered by this committee, and safety and security issues.

(3) The committee shall prepare application forms and guidelines to assist eligible applicants and ensure their distribution to all eligible applicants no later than thirty days prior to the date on which the applications must be submitted as noted in WAC 240-20-160.

NEW SECTION

WAC 240-20-170 Supplemental applications. (1) The committee shall accept applications for supplemental funds available within the central puget sound public transportation account. Applications for supplemental funding shall be evaluated based upon the criteria identified in WAC 240-20-100(1).

(2) The supplemental application process shall be subject to the conditions developed under WAC 240-20-090 and WAC 240-20-120.

(3) The application period for supplemental funding shall be from December 10, 1993 until 5:00 p.m., January 14, 1994. Applications may be mailed to the address identified in WAC 240-20-240, or delivered to the address identified in WAC 240-20-160 no later than the above identified deadline in order to receive consideration.

Reviser's note: The spelling error in the above section occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-109
EMERGENCY RULES
DEPARTMENT OF FISHERIES

[Order 93-141—Filed December 16, 1993, 2:50 p.m.]

Date of Adoption: December 16, 1993.

Purpose: Commercial fishing regulations.

Citation of Existing Rules Affected by this Order:

Repealing WAC 220-52-07300P.

Statutory Authority for Adoption: RCW 75.08.080.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: The quota of red sea urchins has been reached in sea urchin district 2.

Effective Date of Rule: Immediately.

December 16, 1993

Judith Freeman

Deputy

for Robert Turner

Director

NEW SECTION

WAC 220-52-07300Q Sea urchins. Notwithstanding the provisions of WAC 220-52-073, effective immediately until further notice, it is unlawful to take or possess sea urchins taken for commercial purposes except as provided for in this section:

(1) Red sea urchins: Sea urchin district 5 is open Mondays and Tuesdays only and will close when the district quota is taken. It is unlawful to harvest red sea urchins greater or smaller in size than the following (size is diameter exclusive of the spines):

(a) 3.25 to 4.5 inches

(2) Green sea urchins: Sea urchin districts 1, 2, 5, and Marine Fish/Shellfish Management and Catch Reporting Areas 26B, 26D, and 28A are open Monday and Tuesday only and will close when a total of 600,000 pounds are taken. The minimum size for green sea urchins is 2.25 inches in diameter exclusive of the spines.

(3) In addition to the closed areas shown in WAC 220-52-073, the following areas are closed to the commercial harvest of sea urchins at all times.

(a) Waters of Neah Bay west and south of a line from Klachopis Point to the northern tip of Waadah Island thence westerly to landfall one-quarter mile due south of Koitlah Point.

(b) Waters of Makah Bay east of a line from Waatch Point to Portage Head.

(c) All provisions of WAC 220-52-073 not inconsistent with the provisions of this section remain in effect.

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 220-52—07300P Sea urchins. (93-135)

Reviser's note: The typographical error in the above repealer occurred in the copy filed by the agency and appears in the Register pursuant to the requirements of RCW 34.08.040.

WSR 94-01-124
EMERGENCY RULES
FOREST PRACTICES BOARD

[Filed December 17, 1993, 3:38 p.m.]

Date of Adoption: December 9, 1993.

Purpose: To modify forest practices rules, in order to protect public resources while maintaining a viable timber industry. This filing replaces WSR 93-24-024, filed with the code reviser on November 19, 1993.

Citation of Existing Rules Affected by this Order: Amending WAC 222-16-010, 222-16-035, and 222-30-020.

Statutory Authority for Adoption: RCW 76.09.040 and chapter 34.05 RCW.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: To protect forested bogs and fens as Type A wetlands which require a wetland management zone (WMZ).

Effective Date of Rule: Immediately.

December 10, 1993

Jennifer M. Belcher

Commissioner of Public Lands

AMENDATORY SECTION (Amending WSR 93-12-001, filed 5/19/93, effective 6/19/93)

WAC 222-16-010 General definitions.* Unless otherwise required by context, as used in these regulations:

"Act" means the Forest Practices Act, chapter 76.09 RCW.

"Affected Indian tribe" means any federally recognized Indian tribe that requests in writing from the department information on forest practices applications and notification filed on specified areas.

"Appeals board" means the forest practices appeals board established in the act.

"Area of resource sensitivity" means areas identified in accordance with WAC 222-22-050 (2)(d) or 222-22-060(2).

"Board" means the forest practices board established by the act.

"Bog" means wetlands which have the following characteristics: Peat soils 16 inches or more in depth (except over bedrock); and vegetation such as sphagnum moss, labrador tea, bog laurel, bog rosemary, sundews, and sedges;

bogs may have an overstory of spruce, western hemlock, lodgepole pine, cedar, crabapple, or aspen, and may be associated with open water.

"Borrow pit" shall mean an excavation site outside the limits of construction to provide material necessary to that construction, such as fill material for the embankments.

"Chemicals" means substances applied to forest lands or timber including pesticides, fertilizers, and other forest chemicals.

"Clearcut" means a harvest method in which the entire stand of trees is removed in one timber harvesting operation. Except as provided in WAC 222-30-110, an area remains clearcut until:

It meets the minimum stocking requirements under WAC 222-34-010(2) or 222-34-020(2); and

The largest trees qualifying for the minimum stocking levels have survived on the area for five growing seasons or, if not, they have reached an average height of four feet.

"Commercial tree species" means any species which is capable of producing a merchantable stand of timber on the particular site, or which is being grown as part of a Christmas tree or ornamental tree-growing operation.

"Completion of harvest" means the latest of:

Completion of removal of timber from the portions of forest lands harvested in the smallest logical unit that will not be disturbed by continued logging or an approved slash disposal plan for adjacent areas; or

Scheduled completion of any slash disposal operations where the department and the applicant agree within 6 months of completion of yarding that slash disposal is necessary or desirable to facilitate reforestation and agree to a time schedule for such slash disposal; or

Scheduled completion of any site preparation or rehabilitation of adjoining lands approved at the time of approval of the application or receipt of a notification: *Provided*, That delay of reforestation under this paragraph is permitted only to the extent reforestation would prevent or unreasonably hinder such site preparation or rehabilitation of adjoining lands.

"Constructed wetlands" means those wetlands voluntarily developed by the landowner. Constructed wetlands do not include wetlands created, restored, or enhanced as part of a mitigation procedure or wetlands inadvertently created as a result of current or past practices including, but not limited to: Road construction, landing construction, railroad construction, or surface mining.

"Contamination" means the introducing into the atmosphere, soil, or water, sufficient quantities of substances as may be injurious to public health, safety or welfare, or to domestic, commercial, industrial, agriculture or recreational uses, or to livestock, wildlife, fish or other aquatic life.

"Conversion option harvest plan" means a voluntary plan developed by the landowner and approved by the local government entity indicating the limits of harvest areas, road locations, and open space.

"Conversion to a use other than commercial timber operation" shall mean a bona fide conversion to an active use which is incompatible with timber growing.

"Critical habitat (federal)" means the habitat of any threatened or endangered species designated as critical habitat by the United States Secretary of the Interior under

Sections 3(5)(A) and 4(a)(3) of the Federal Endangered Species Act.

"**Critical wildlife habitat (state)**" means those habitats designated by the board in accordance with WAC 222-16-080.

"**Cultural resources**" means archaeological and historic sites and artifacts and traditional religious, ceremonial and social uses and activities of affected Indian tribes.

"**Cumulative effects**" means the changes to the environment caused by the interaction of natural ecosystem processes with the effects of two or more forest practices.

"**Debris**" means woody vegetative residue less than 3 cubic feet in size resulting from forest practice activities which would reasonably be expected to cause significant damage to a public resource.

"**Department**" means the department of natural resources.

"**Eastern Washington**" means the lands of the state lying east of an administrative line which approximates the change from the Western Washington timber types to the Eastern Washington timber types described as follows:

Beginning at the International Border and Okanogan National Forest boundary at the N1/4 corner Section 6, T. 40N, R. 24E., W.M., south and west along the Pasayten Wilderness boundary to the west line of Section 30, T. 37N, R. 19E.,

Thence south on range line between R. 18E. and R. 19E., to the Lake Chelan-Sawtooth Wilderness at Section 31, T. 35N, R. 19E.,

Thence south and east along the eastern wilderness boundary of Lake Chelan-Sawtooth Wilderness to the west line of Section 18, T. 31N, R. 19E. on the north shore of Lake Chelan,

Thence south on the range line between R. 18E. and R. 19E. to the SE corner of T. 28N, R. 18E.,

Thence west on the township line between T. 27N, and T. 28N to the NW corner of T. 27N, R. 17E.,

Thence south on range line between R. 16E. and R. 17E. to the Alpine Lakes Wilderness at Section 31, T. 26N, R. 17E.,

Thence south along the eastern wilderness boundary to the west line of Section 6, T. 22N, R. 17E.,

Thence south on range line between R. 16E. and R. 17E. to the SE corner of T. 22N, R. 16E.,

Thence west along township line between T. 21N, and T. 22N to the NW corner of T. 21N, R. 15E.,

Thence south along range line between R. 14E. and R. 15E. to SW corner of T. 20N, R. 15E.,

Thence east along township line between T. 19N, and T. 20N to the SW corner of T. 20N, R. 16E.,

Thence south along range line between R. 15E. and R. 16E. to the SW corner of T. 18N, R. 16E.,

Thence west along township line between T. 17N, and T. 18N to the SE corner of T. 18N, R. 14E.,

Thence south along range line between T. 14E. and R. 15E. to the SW corner of T. 14N, R. 15E.,

Thence south and west along Wenatchee National Forest Boundary to the NW corner of T. 12N, R. 14E.,

Thence south along range line between R. 13E. and R. 14E. to SE corner of T. 10N, R. 13E.,

Thence west along township line between T. 9N, and T. 10N to the NW corner of T. 9N, R. 12E.,

Thence south along range line between R. 11E. and R. 12E. to SE corner of T. 8N, R. 11E.,

Thence west along township line between T. 7N, and T. 8N to the Gifford Pinchot National Forest Boundary,

Thence south along Forest Boundary to SE corner of Section 33, T. 7N, R. 11E.,

Thence west along township line between T. 6N, and T. 7N to SE corner of T. 7N, R. 9E.,

Thence south along Skamania-Klickitat County line to Oregon-Washington state line.

"**End hauling**" means the removal and transportation of excavated material, pit or quarry overburden, or landing or road cut material from the excavation site to a deposit site not adjacent to the point of removal.

"**Erodible soils**" means those soils exposed or displaced by a forest practice operation, that would be readily moved by water.

"**Even-aged harvest methods**" means the following harvest methods:

Clearcuts;

Seed tree harvests in which twenty or fewer trees per acre remain after harvest;

Shelterwood regeneration harvests in which twenty or fewer trees per acre remain after harvest;

Group or strip shelterwood harvests creating openings wider than two tree heights, based on dominant trees;

Shelterwood removal harvests which leave fewer than one hundred fifty trees per acre which are at least five years old or four feet in average height;

Partial cutting in which fewer than fifty trees per acre remain after harvest;

Overstory removal when more than five thousand board feet per acre is removed and fewer than fifty trees per acre at least ten feet in height remain after harvest; and

Other harvesting methods designed to manage for multiple age classes in which six or fewer trees per acre remain after harvest.

Except as provided above for shelterwood removal harvests and overstory removal, trees counted as remaining after harvest shall be at least ten inches in diameter at breast height and have at least the top one-third of the stem supporting green, live crowns. Except as provided in WAC 222-30-110, an area remains harvested by even-aged methods until it meets the minimum stocking requirements under WAC 222-30-010(2) or 222-34-020(2) and the largest trees qualifying for the minimum stocking levels have survived on the area for five growing seasons or, if not, they have reached an average height of four feet.

"**Fen**" means wetlands which have the following characteristics: Peat soils 16 inches or more in depth (except over bedrock); and vegetation such as certain sedges, hardstem bulrush and cattails; fens may have an overstory of spruce, western hemlock, lodgepole pine, cedar, crabapple, or aspen, and may be associated with open water.

"**Fertilizers**" means any substance or any combination or mixture of substances used principally as a source of plant food or soil amendment.

"**Fill**" means the placement of earth material or aggregate for road or landing construction or other similar activities. Fill does not include the growing or harvesting of timber including, but not limited to, slash burning, site preparation, reforestation, precommercial thinning, intermedi-

ate or final harvesting, salvage of trees, brush control, or fertilization.

"Flood level - 50 year." For purposes of field interpretation of these regulations, the 50-year flood level shall be considered to refer to a vertical elevation measured from the ordinary high-water mark which is 1.25 times the vertical distance between the average stream bed and the ordinary high-water mark, and in horizontal extent shall not exceed 2 times the channel width measured on either side from the ordinary high-water mark, unless a different area is specified by the department based on identifiable topographic or vegetative features or based on an engineering computation of flood magnitude that has a 2 percent chance of occurring in any given year. The 50-year flood level shall not include those lands that can reasonably be expected to be protected from flood waters by flood control devices maintained by or under license from the federal government, the state, or a political subdivision of the state.

"Forest land" means all land which is capable of supporting a merchantable stand of timber and is not being actively used for a use which is incompatible with timber growing.

"Forest land owner" shall mean any person in actual control of forest land, whether such control is based either on legal or equitable title, or on any other interest entitling the holder to sell or otherwise dispose of any or all of the timber on such land in any manner: *Provided*, That any lessee or other person in possession of forest land without legal or equitable title to such land shall be excluded from the definition of "forest land owner" unless such lessee or other person has the right to sell or otherwise dispose of any or all of the timber located on such forest land.

"Forest practice" means any activity conducted on or directly pertaining to forest land and relating to growing, harvesting, or processing timber, including but not limited to:

- Road and trail construction;
- Harvesting, final and intermediate;
- Precommercial thinning;
- Reforestation;
- Fertilization;
- Prevention and suppression of diseases and insects;
- Salvage of trees; and
- Brush control.

"Forest practice" shall not include: Forest species seed orchard operations and intensive forest nursery operations; or preparatory work such as tree marking, surveying and road flagging; or removal or harvest of incidental vegetation from forest lands such as berries, ferns, greenery, mistletoe, herbs, mushrooms, and other products which cannot normally be expected to result in damage to forest soils, timber or public resources.

"Forest trees" excludes trees cultivated by agricultural methods in growing cycles shorter than ten years: *Provided*, That Christmas trees are forest trees and: *Provided further*, That this exclusion applies only to trees planted on land that was not in forest use immediately before the trees were planted and before the land was prepared for planting the trees.

"Green recruitment trees" means those trees left after harvest for the purpose of becoming future wildlife reserve trees under WAC 222-30-020(11).

"Herbicide" means any substance or mixture of substances intended to prevent, destroy, repel, or mitigate any tree, bush, weed or algae and other aquatic weeds.

"Historic site" includes:

Sites, areas and structures or other evidence of human activities illustrative of the origins, evolution and development of the nation, state or locality; or

Places associated with a personality important in history; or

Places where significant historical events are known to have occurred even though no physical evidence of the event remains.

"Identified watershed processes" means the following components of natural ecological processes that may in some instances be altered by forest practices in a watershed:

- Mass wasting;
- Surface and road erosion;
- Seasonal flows including hydrologic peak and low flows and annual yields (volume and timing);
- Large organic debris;
- Shading; and
- Stream bank and bed stability.

"Insecticide" means any substance or mixture of substances intended to prevent, destroy, repel, or mitigate any insect, other arthropods or mollusk pests.

"Interdisciplinary team" (ID Team) means a group of varying size comprised of individuals having specialized expertise, assembled by the department to respond to technical questions associated with a proposed forest practice activity.

"Islands" means any island surrounded by salt water in Kitsap, Mason, Jefferson, Pierce, King, Snohomish, Skagit, Whatcom, Island, or San Juan counties.

"Limits of construction" means the area occupied by the completed roadway or landing, including the cut bank, fill slope, and the area cleared for the purpose of constructing the roadway or landing.

"Load bearing portion" means that part of the road, landing, etc., which is supportive soil, earth, rock or other material directly below the working surface and only the associated earth structure necessary for support.

"Local government entity" means the governments of counties and the governments of cities and towns as defined in chapter 35.01 RCW.

"Low impact harvest" means use of any logging equipment, methods, or systems that minimize compaction or disturbance of soils and vegetation during the yarding process. The department shall determine such equipment, methods or systems in consultation with the department of ecology.

"Merchantable stand of timber" means a stand of trees that will yield logs and/or fiber:

Suitable in size and quality for the production of lumber, plywood, pulp or other forest products;

Of sufficient value at least to cover all the costs of harvest and transportation to available markets.

"Notice to comply" means a notice issued by the department pursuant to RCW 76.09.090 of the act and may require initiation and/or completion of action necessary to prevent, correct and/or compensate for material damage to public resources which resulted from forest practices.

"Operator" shall mean any person engaging in forest practices except an employee with wages as his/her sole compensation.

"Ordinary high-water mark" means the mark on the shores of all waters, which will be found by examining the beds and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation: *Provided*, That in any area where the ordinary high-water mark cannot be found, the ordinary high-water mark adjoining saltwater shall be the line of mean high tide and the ordinary high-water mark adjoining freshwater shall be the line of mean high-water.

"Other forest chemicals" means fire retardants when used to control burning (other than water), nontoxic repellents, oil, dust-control agents (other than water), salt, and other chemicals used in forest management, except pesticides and fertilizers, that may present hazards to the environment.

"Park" means any park included on the parks register maintained by the department pursuant to WAC 222-20-100(2). Developed park recreation area means any park area developed for high density outdoor recreation use.

"Partial cutting" means the removal of a portion of the merchantable volume in a stand of timber so as to leave an uneven-aged stand of well-distributed residual, healthy trees that will reasonably utilize the productivity of the soil. Partial cutting does not include seedtree or shelterwood or other types of regeneration cutting.

"Pesticide" means any insecticide, herbicide, fungicide, or rodenticide but does not include nontoxic repellents or other forest chemicals.

"Plantable area" is an area capable of supporting a commercial stand of timber excluding lands devoted to permanent roads, utility rights-of-way, that portion of riparian management zones where scarification is not permitted, and any other area devoted to a use incompatible with commercial timber growing.

"Power equipment" means all machinery operated with fuel burning or electrical motors, including heavy machinery, chain saws, portable generators, pumps, and powered backpack devices.

"Public resources" means water, fish, and wildlife and in addition shall mean capital improvements of the state or its political subdivisions.

"Rehabilitation" means the act of renewing, or making usable and reforesting forest land which was poorly stocked or previously nonstocked with commercial species.

"Relief culvert" means a structure to relieve surface runoff from roadside ditches to prevent excessive buildup in water volume and velocity.

"Resource characteristics" means the following specific measurable characteristics of fish, water, and capital improvements of the state or its political subdivisions:

For fish and water:

Physical fish habitat, including temperature and turbidity;

Turbidity in hatchery water supplies; and

Turbidity and volume for areas of water supply.

For capital improvements of the state or its political subdivisions:

Physical or structural integrity.

If the methodology is developed and added to the manual to analyze the cumulative effects of forest practices on other characteristics of fish, water, and capital improvements of the state or its subdivisions, the board shall amend this list to include these characteristics.

"Riparian management zone" means a specified area alongside Type 1, 2 and 3 Waters where specific measures are taken to protect water quality and fish and wildlife habitat.

"Rodenticide" means any substance or mixture of substances intended to prevent, destroy, repel, or mitigate rodents or any other vertebrate animal which the director of the state department of agriculture may declare by regulation to be a pest.

"Salvage" means the removal of snags, down logs, windthrow, or dead and dying material.

"Scarification" means loosening the topsoil and/or disrupting the forest floor in preparation for regeneration.

"Shorelines of the state" shall have the same meaning as in RCW 90.58.030 (Shoreline Management Act).

"Side casting" means the act of moving excavated material to the side and depositing such material within the limits of construction or dumping over the side and outside the limits of construction.

"Site preparation" means those activities associated with the removal of slash in preparing a site for planting and shall include scarification and/or slash burning.

"Skid trail" means a route used by tracked or wheeled skidders to move logs to a landing or road.

"Slash" means pieces of woody material containing more than 3 cubic feet resulting from forest practice activities.

"Spoil" means excess material removed as overburden or generated during road or landing construction which is not used within limits of construction.

"Stop work order" means the "stop work order" defined in RCW 76.09.080 of the act and may be issued by the department to stop violations of the forest practices chapter or to prevent damage and/or to correct and/or compensate for damages to public resources resulting from forest practices.

"Threatened or endangered species" means all species of wildlife listed as "threatened" or "endangered" by the United States Secretary of the Interior, and all species of wildlife designated as "threatened" or "endangered" by the Washington wildlife commission.

"Timber" shall mean forest trees, standing or down, of a commercial species, including Christmas trees.

"Water bar" means a diversion ditch and/or hump in a trail or road for the purpose of carrying surface water runoff into the vegetation duff, ditch, or other dispersion area so that it does not gain the volume and velocity which causes soil movement and erosion.

"Watershed administrative unit (WAU)" means an area shown on the map specified in WAC 222-22-020(1).

"Watershed analysis" means, for a given WAU, the assessment completed under WAC 222-22-050 or 222-22-060 together with the prescriptions selected under WAC 222-22-070 and shall include assessments completed under WAC 222-22-050 where there are no areas of resource sensitivity.

"Weed" is any plant which tends to overgrow or choke out more desirable vegetation.

"Western Washington" means the lands of the state lying west of the administrative line described in the definition of Eastern Washington.

"Wetland" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, such as swamps, bogs, fens, and similar areas. This includes wetlands created, restored, or enhanced as part of a mitigation procedure. This does not include constructed wetlands or the following surface waters of the state intentionally constructed from wetland sites: Irrigation and drainage ditches, grass lined swales, canals, agricultural detention facilities, farm ponds, and landscape amenities.

"Wetland functions" include the protection of water quality and quantity, providing fish and wildlife habitat, and the production of timber.

"Wetland management zone" means a specified area adjacent to Type A and B Wetlands where specific measures are taken to protect the wetland functions.

"Wildlife" means all species of the animal kingdom whose members exist in Washington in a wild state. The term "wildlife" includes, but is not limited to, any mammal, bird, reptile, amphibian, fish, or invertebrate, at any stage of development. The term "wildlife" does not include feral domestic mammals or the family Muridae of the order Rodentia (old world rats and mice).

"Wildlife reserve trees" means those defective, dead, damaged, or dying trees which provide or have the potential to provide habitat for those wildlife species dependent on standing trees. Wildlife reserve trees are categorized as follows:

Type 1 wildlife reserve trees are defective or deformed live trees that have observably sound tops, limbs, trunks, and roots. They may have part of the top broken out or have evidence of other severe defects that include: "Cat face," animal chewing, old logging wounds, weather injury, insect attack, or lightning strike. Unless approved by the landowner, only green trees with visible cavities, nests, or obvious severe defects capable of supporting cavity dependent species shall be considered as Type 1 wildlife reserve trees. These trees must be stable and pose the least hazard for workers.

Type 2 wildlife reserve trees are dead Type 1 trees with sound tops, limbs, trunks, and roots.

Type 3 wildlife reserve trees are live or dead trees with unstable tops or upper portions. Unless approved by the landowner, only green trees with visible cavities, nests, or obvious severe defects capable of supporting cavity dependent species shall be considered as Type 3 wildlife reserve trees. Although the roots and main portion of the trunk are sound, these reserve trees pose high hazard because of the defect in live or dead wood higher up in the tree.

Type 4 wildlife reserve trees are live or dead trees with unstable trunks or roots, with or without bark. This includes "soft snags" as well as live trees with unstable roots caused by root rot or fire. These trees are unstable and pose a high hazard to workers.

"Windthrow" means a natural process by which trees are uprooted or sustain severe trunk damage by the wind.

AMENDATORY SECTION (Amending WSR 92-15-011, filed 7/2/92, effective 8/2/92)

WAC 222-16-035 Wetland typing system. *The department in cooperation with the departments of fisheries, wildlife, and ecology, and affected Indian tribes shall classify wetlands. The wetlands will be classified in order to distinguish those which require wetland management zones and those which do not. Wetlands which require wetland management zones shall be identified using the following criteria. Accurate delineation of wetlands in accordance with the manual shall be required only where necessary to determine whether replacement by substitution or enhancement is required pursuant to WAC 222-24-025(10) and shall be limited to the area of wetland proposed to be filled. For the purposes of determining acreage to classify or type wetlands under this section, approximate determination using aerial photographs and maps, including the national wetlands inventory, shall be sufficient. In addition, the innermost boundary of the wetland management zone on Type A or B wetlands may be determined by either of two methods: Delineation of the wetland edge, or identifying the point where the crown cover changes from less than 30% to 30% or more. Except where necessary to determine whether replacement by substitution or enhancement is required pursuant to WAC 222-24-025(10), accurate delineation shall not be required under this Title 222 WAC for activities regulated by these rules, including but not limited to the location of roads, landings, culverts, and cross drains. Landowners are encouraged to leave vegetation in these forested wetlands in undisturbed leave areas where possible. When so requested by any affected landowners, applicant or aggrieved person, the department shall make available informal conferences, which shall include the departments of fisheries, wildlife, and ecology, and affected Indian tribes and those contesting the adopted wetland types. These conferences shall be established under procedures established in WAC 222-46-020.

(1) **"Nonforested wetlands"** means any wetland or portion thereof that has, or if the trees were mature would have, a crown closure of less than 30 percent.

(a) **"Type A Wetland"** classification shall be applied to all nonforested wetlands which:

(i) Are greater than 0.5 acre in size, including any acreage of open water where the water is completely surrounded by the wetland; and

(ii) Are associated with at least 0.5 acre of ponded or standing open water. The open water must be present on the site for at least 7 consecutive days between April 1 and October 1 to be considered for the purposes of these rules(~~or~~

~~(iii) Are bogs and fens greater than 0.25 acre)).~~

(b) **"Type B Wetland"** classification shall be applied to all other nonforested wetlands greater than 0.25 acre.

(2) **"Forested wetland"** means any wetland or portion thereof that has, or if the trees were mature would have, a crown closure of 30 percent or more.

(3) "All forested and nonforested bogs and fens" greater than 0.25 acres shall be considered Type A Wetlands.

AMENDATORY SECTION (Amending WSR 93-12-001, filed 5/19/93, effective 6/19/93)

WAC 222-30-020 Harvest unit planning and design.

(1) **Logging system.** The logging system should be appropriate for the terrain, soils, and timber type so yarding or skidding can be economically accomplished in compliance with these regulations.

*(2) **Landing locations.** Locate landings to prevent damage to public resources. Avoid excessive excavation and filling.

*(3) **Western Washington riparian management zones.** These zones shall be measured horizontally from the ordinary high-water mark of Type 1, 2 or 3 Water and extend to the line where vegetation changes from wetland to upland plant community, or the line required to leave sufficient shade as required by WAC 222-30-040, whichever is greater, but shall not be less than 25 feet in width nor more than the maximum widths described in (c) of this subsection, provided that the riparian management zone width shall be expanded as necessary to include wetlands or ponds adjacent to the stream. When the riparian management zone overlaps a Type A or B Wetland or a wetland management zone, the requirement which best protects public resources shall apply.

(a) Harvest units shall be designed so that felling, bucking, yarding or skidding, and reforestation can be accomplished in accordance with these regulations, including those regulations relating to stream bank integrity and shade requirements to maintain stream temperature. Where the need for additional actions or restrictions adjacent to waters not covered by the following become evident, WAC 222-12-050 and 222-12-060 may apply.

(b) When requested in writing by the applicant, the department shall assist in preparation of an alternate plan for the riparian management zone.

(c) Within the riparian management zone, there shall be trees left for wildlife and fisheries habitat as provided for in the chart below. Fifty percent or more of the trees shall be live and undamaged on completion of the harvest. The leave trees shall be randomly distributed where feasible; some clumping is allowed to accommodate operational considerations. The number, size, species and ratio of leave trees, deciduous to conifer, is specified by the bed material and average width of the water type within the harvest unit. Trees left according to (d) of this subsection may be included in the number of required leave trees in this subsection.

| WATER TYPE / AVERAGE WIDTH | RMZ MAXIMUM WIDTH | RATIO OF CONIFER TO DECIDUOUS / MINIMUM SIZE LEAVE TREES | # TREES/1000 FT. EACH SIDE |
|----------------------------|-------------------|--|----------------------------|
| 1 & 2 Water 75' & over | 100' | representative of stand | 50 trees 25 trees |
| 1 & 2 Water under 75' | 75' | representative of stand | 100 trees 50 trees |
| 3 Water 5' & over | 50' | 2 to 1/ 12" or next largest available | 75 trees 25 trees |
| 3 Water less than 5' | 25' | 1 to 1/ 6" or next largest available | 25 trees 25 trees |

| WATER TYPE / AVERAGE WIDTH | RMZ MAXIMUM WIDTH | RATIO OF CONIFER TO DECIDUOUS / MINIMUM SIZE LEAVE TREES | # TREES/1000 FT. EACH SIDE |
|----------------------------|-------------------|--|----------------------------|
| 1 & 2 Water 75' & over | 100' | representative of stand | 50 trees 25 trees |
| 1 & 2 Water under 75' | 75' | representative of stand | 100 trees 50 trees |

| | | | | |
|----------------------|-----|---------------------------------------|----------|----------|
| 3 Water 5' & over | 50' | 2 to 1/ 12" or next largest available | 75 trees | 25 trees |
| 3 Water less than 5' | 25' | 1 to 1/ 6" or next largest available | 25 trees | 25 trees |

| Water Type / Average Width | RMZ Maximum Width | Ratio of Conifer to Deciduous/ Minimum Size Leave Trees | # Trees/1000 ft. each side | |
|----------------------------|-------------------|---|------------------------------|------------------|
| | | | Gravel/ Cobble <10" Diameter | Boulder/ Bedrock |
| 1 & 2 Water 75' & over | 100' | representative of stand | 50 trees | 25 trees |
| 1 & 2 Water under 75' | 75' | representative of stand | 100 trees | 50 trees |
| 3 Water 5' & over | 50' | 2 to 1/ 12" or next largest available | 75 trees | 25 trees |
| 3 Water less than 5' | 25' | 1 to 1/ 6" or next largest available | 25 trees | 25 trees |

"Or next largest available" requires that the next largest trees to those specified in the rule be left standing when those available are smaller than the sizes specified. Ponds or lakes which are Type 1, 2 or 3 Waters shall have the same leave tree requirements as boulder/bedrock streams.

(d) For wildlife habitat within the riparian management zone, leave an average of 5 undisturbed and uncut wildlife trees per acre at the ratio of 1 deciduous tree to 1 conifer tree equal in size to the largest existing trees of those species within the zone. Where the 1 to 1 ratio is not possible, then substitute either species present. Forty percent or more of the leave trees shall be live and undamaged on completion of harvest. Wildlife trees shall be left in clumps whenever possible.

(e) When 10 percent or more of the harvest unit lies within any combination of a riparian management zone of Type 1, 2 or 3 Waters or a wetland management zone and the harvest unit is a clearcutting of 30 acres or less, leave not less than 50 percent of the trees required in (c) of this subsection.

*(4) **Eastern Washington riparian management zones.** These zones shall be measured horizontally from the ordinary high-water mark of Type 1, 2 or 3 Waters and extend to the line where vegetation changes from wetland to upland plant community, or to the line required to leave sufficient shade as required by WAC 222-30-040, whichever is greater, but shall not be less than the minimum width nor more than the maximum widths described in (c) of this subsection, provided that the riparian management zone width shall be expanded as necessary to include wetlands or ponds adjacent to the stream. When the riparian management zone overlaps a Type A or B Wetland or a wetland management zone, the requirement which best protects public resources shall apply.

(a) Harvest units shall be designed so that felling, bucking, yarding or skidding, and reforestation can be accomplished in accordance with these regulations, including those regulations relating to stream bank integrity and shade requirements to maintain stream temperature. Where the need for additional actions or restrictions adjacent to waters

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not covered by the following become evident, WAC 222-12-050 and 222-12-060 may apply.

(b) When requested in writing by the applicant, the department shall assist in preparation of an alternate plan for the riparian management zone.

(c) Within the riparian management zone, there shall be trees left for wildlife and fisheries habitat as provided for below. Fifty percent or more of the trees shall be live and undamaged on completion of the harvest. The leave trees shall be randomly distributed where feasible; some clumping is allowed to accommodate operational considerations.

(i) The width of the riparian management zone shall be based on the adjacent harvest type as defined in WAC 222-16-010 "Partial cutting." When the adjacent unit harvest type is:

Partial cutting - The riparian management zone width shall be a minimum of 30 feet to a maximum of 50 feet on each side of the stream.

Other harvest types - The riparian management zone shall average 50 feet in width on each side of the stream with a minimum width of 30 feet and a maximum of 300 feet on each side of the stream.

(ii) Leave tree requirements within the riparian management zones of Type 1, 2 or 3 Waters:

(A) Leave all trees 12 inches or less in diameter breast height (dbh); and

(B) Leave all wildlife reserve trees within the riparian management zone where operations in the vicinity do not violate the state safety regulations (chapter 296-54 WAC and chapter 49.17 RCW administered by department of labor and industries, safety division); and

(C) Leave 16 live conifer trees/acre between 12 inches dbh and 20 inches dbh distributed by size, as representative of the stand; and

(D) Leave 3 live conifer trees/acre 20 inches dbh or larger and the 2 largest live deciduous trees/acre 16 inches dbh or larger. Where these deciduous trees do not exist, and where 2 wildlife reserve trees/acre 20 inches or larger do not exist, substitute 2 live conifer trees/acre 20 inches dbh or larger. If live conifer trees of 20 inches dbh or larger do not exist within the riparian management zone, then substitute the 5 largest live conifer trees/acre; and

(E) Leave 3 live deciduous trees/acre between 12 inches and 16 inches dbh where they exist.

(iii) Minimum leave tree requirements per acre for Type 1, 2 and 3 Waters. Trees left for (c)(ii) of this subsection shall be included in the minimum counts.

(A) On streams with a boulder/bedrock bed, the minimum leave tree requirements shall be 75 trees/acre 4 inches dbh or larger.

(B) On streams with a gravel/cobble (less than 10 inches diameter) bed, the minimum leave tree requirement shall be 135 trees/acre 4 inches dbh or larger.

(C) On lakes or ponds the minimum leave tree requirement shall be 75 trees/acre 4 inches dbh or larger.

Note: (See the Forest Practices Board Manual for assistance in calculating trees/acre and average RMZ widths.)

(d) When 10 percent or more of the harvest unit lies within any combination of a riparian management zone of Type 1, 2 or 3 Waters or a wetland management zone and either the harvest unit is a clearcutting of 30 acres or less or

the harvest unit is a partial cutting of 80 acres or less, leave not less than 50 percent of the trees required in (c) of this subsection. (See WAC 222-16-010 "Partial cutting.")

* (5) Riparian leave tree areas. The department will require trees to be left along Type 4 Water where such practices are necessary to protect public resources. Where such practices are necessary leave at least 25 conifer or deciduous trees, 6 inches in diameter or larger, on each side of every 1000 feet of stream length within 25 feet of the stream. The leave trees may be arranged to accommodate the operation.

(6) **Forested wetlands.** Within the wetland, unless otherwise approved in writing by the department, harvest methods shall be limited to low impact harvest or cable systems. Where feasible, at least one end of the log shall be suspended during yarding.

(a) When forested wetlands are included within the harvest area, landowners are encouraged to leave a portion (30 to 70%) of the wildlife reserve tree requirement for the harvest area within a wetland. In order to retain undisturbed habitat within forested wetlands, these trees should be left in clumps. Leave tree areas should be clumped adjacent to streams, riparian management zones, or wetland management zones where possible and they exist within forested wetlands. Green recruitment trees should be representative of the size and species found within the wetland. Leave nonmerchantable trees standing where feasible.

(b) If a RMZ or WMZ lies within a forested wetland, the leave tree requirement associated with those areas may be counted toward the percentages in (a) of this subsection.

(c) If the conditions described in (a) and (b) of this subsection are met, the distribution requirements for wildlife reserve trees and green recruitment trees (subsection (11)(e) of this section) are modified as follows: For purposes of distribution, no point within the harvest unit shall be more than 1000 feet from a wildlife reserve tree and green recruitment tree retention area.

(d) Approximate determination of the boundaries of forested wetlands greater than 5 acres shall be required. Approximate boundaries and areas shall be deemed to be sufficient for harvest operations.

(e) The department shall consult with the department of wildlife, the department of fisheries, and affected Indian tribes about site specific impacts of forest practices on wetland-sensitive species in forested wetlands.

(7) **Wetland management zones (WMZ).** These zones shall apply to Type A and B Wetlands, as indicated in (a) of this subsection, and shall be measured horizontally from the wetland edge or the point where the nonforested wetland becomes a forested wetland, as determined by the method described in the board manual, and shall be of an average width as described in (a) of this subsection. These zones shall not be less than the minimum nor more than the maximum widths described in (a) of this subsection. When these zones overlap a riparian management zone the requirement which best protects public resources shall apply.

* (a) Wetland management zones (WMZ) shall have variable widths based on the size of the wetland and the wetland type, described as follows:

((WETLAND MANAGEMENT ZONE WIDTHS

| Wetland Type | Acres of Nonforested Wetland | Maximum WMZ Width | Average WMZ Width | Minimum WMZ Width |
|--------------|------------------------------|-------------------|-------------------|-------------------|
| A | Greater than 5 | 200 feet | 100 feet | 50 feet |
| A | 0.5 to 5 | 100 feet | 50 feet | 25 feet |
| A Bog/Fen | 0.25 to 0.5 | 100 feet | 50 feet | 25 feet |
| B | Greater than 5 | 100 feet | 50 feet | 25 feet |
| B | 0.5 to 5 | | | 25 feet |
| B | 0.25 to 0.5 | No WMZ Required | | |

WETLAND MANAGEMENT ZONES

| Wetland Type | Acres of Nonforested Wetland* | Maximum WMZ Width | Average WMZ Width | Minimum WMZ Width |
|-----------------------------|-------------------------------|-------------------|-------------------|-------------------|
| A (including bogs and fens) | Greater than 5 | 200 feet | 100 feet | 50 feet |
| A (including bogs and fens) | 0.5 to 5 | 100 feet | 50 feet | 25 feet |
| A (bogs and fens only) | 0.25 to 0.5 | 100 feet | 50 feet | 25 feet |
| B | Greater than 5 | 100 feet | 50 feet | 25 feet |
| B | 0.5 to 5 | | | 25 feet |
| B | 0.25 to 0.5 | No WMZ Required | No WMZ Required | |

(b) Within the WMZ, leave a total of 75 trees per acre of WMZ greater than 6 inches dbh in Western Washington and greater than 4 inches dbh in Eastern Washington, 25 of which shall be greater than 12 inches dbh including 5 trees greater than 20 inches dbh, where they exist. Leave trees shall be representative of the species found within the WMZ.

(c) Retain wildlife reserve trees where feasible. Type 1 and 3 wildlife reserve trees may be counted among, and need not exceed, the trees required in (b) of this subsection. Leave all cull logs on site.

(d) Partial-cutting or removal of groups of trees is acceptable within the WMZ. The maximum width of openings created by harvesting within the WMZ shall not exceed 100 feet as measured parallel to the wetland edge. Openings within WMZs shall be no closer than 200 feet. Landowners are encouraged to concentrate leave trees within the WMZ to the wetland edge.

*(e) Tractors, wheeled skidders, or other ground based harvesting systems shall not be used within the minimum WMZ width without written approval of the department.

*(f) When 10% or more of a harvest unit lies within any combination of a wetland management zone or a riparian management zone of Type 1, 2, or 3 Waters and either the harvest unit is a clearcut of 30 acres or less or the harvest unit is a partial cut of 80 acres or less, leave not less than 50% of the trees required in (b) of this subsection.

*(8) ((~~Nonforested wetlands~~)) Type A or B ((~~Wetlands~~)). Within the boundaries of Type A or B Wetlands the following shall apply:

(a) Individual trees or forested wetland areas less than 0.5 acre in size may occur. These trees have a high habitat

value to the nonforested wetland. Leave individual trees or forested wetlands less than 0.5 acre. These trees may be counted toward the WMZ requirements.

(b) Harvest of upland areas or forested wetlands which are surrounded by Type A or B Wetlands must be conducted in accordance with a plan, approved in writing by the department.

(c) No timber shall be felled into or cable yarded across Type A or B Wetlands without written approval of the department.

(d) Harvest shall not be allowed within a Type A bog or fen.

(9) Future productivity. Harvesting shall leave the land in a condition conducive to future timber production except:

(a) To the degree required for riparian management zones; or

(b) Where the lands are being converted to another use or classified urban lands as specified in WAC 222-34-050.

(10) Wildlife habitat. This subsection is designed to encourage timber harvest practices that would protect wildlife habitats, provided, that such action shall not unreasonably restrict landowners action without compensation.

(a) The applicant should make every reasonable effort to cooperate with the department of wildlife to identify critical wildlife habitats (state) as defined by the board. Where these habitats are known to the applicant, they shall be identified in the application or notification.

(b) Harvesting methods and patterns in established big game winter ranges should be designed to insure adequate access routes and escape cover where practical.

(i) Where practical, cutting units should be designed to conform with topographical features.

(ii) Where practical on established big game winter ranges, cutting units should be dispersed over the area to provide cover, access for wildlife, and to increase edge effect.

(11) Wildlife reserve tree management. In areas where leaving wildlife reserve trees under this section will not create a significant fire hazard, or significant hazard to overhead power lines and operations that are proposed in the vicinity of wildlife reserve trees will not create a significant safety or residential hazard nor conflict with achieving conformance with the limitation of or performance with the provisions of chapter 76.04 RCW (snag falling law) and chapter 49.17 RCW (safety), wildlife reserve trees will be left to protect habitat for cavity nesting wildlife in accordance with the following:

(a) In Western Washington, for each acre harvested 3 wildlife reserve trees, 2 green recruitment trees, and 2 down logs shall be left. In Eastern Washington for each acre harvested 2 wildlife reserve trees, 2 green recruitment trees, and 2 down logs shall be left. Type 1 wildlife reserve trees may be counted, at the landowner's option, either as a wildlife reserve tree or as a green recruitment tree. If adequate wildlife reserve trees are not available, no additional green recruitment trees will be required as substitutes. Landowners shall not under any circumstances be required to leave more than 2 green recruitment trees per acre for the purpose of wildlife reserve tree recruitment, or be required to leave Type 3 or 4 wildlife reserve trees.

(b) In Eastern Washington, for 5 years from the effective date of this subsection where over-story harvest of seed

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trees left for purpose of reforestation are proposed and less than 10 trees per acre will be harvested within the 5-year period, 50% of the green recruitment trees otherwise required in this subsection may be left.

(c) In Western Washington, only those wildlife reserve trees 10 or more feet in height and 12 or more inches dbh shall be counted toward wildlife reserve tree retention requirements. In Eastern Washington, only those wildlife reserve trees 10 or more feet in height and 10 or more inches dbh shall be counted toward wildlife reserve tree retention requirements. Green recruitment trees, 10 or more inches dbh and 30 or more feet in height and with at least 1/3 of their height in live crown, left standing after harvest may be counted toward green recruitment tree requirements. Green recruitment trees and/or wildlife reserve trees left to meet other requirements of the rules or those left voluntarily by the landowner shall be counted toward satisfying the requirements of this section. Large, live defective trees with broken tops, cavities, and other severe defects are preferred as green recruitment trees. Only down logs with a small end diameter greater than or equal to 12 inches and a length greater than or equal to 20 feet or equivalent volume shall be counted under (a) of this subsection. Large cull logs are preferred as down logs.

(d) In the areas where wildlife reserve trees are left, the largest diameter wildlife reserve trees shall be retained to meet the specific needs of cavity nesters. Where the opportunity exists, larger trees with numerous cavities should be retained and count as recruitment trees.

(e) In order to facilitate safe and efficient harvesting operations, wildlife reserve trees and recruitment trees may be left in clumps. For purposes of distribution, no point within the harvest unit shall be more than 800 feet from a wildlife reserve tree or green recruitment tree retention area. Subject to this distribution requirement, the location of these retention areas and the selection of recruitment trees shall be at the landowner's discretion. Closer spacing of retention areas through voluntary action of the landowner is encouraged. Wildlife reserve tree and green recruitment tree retention areas may include, but are not limited to, riparian management zones, riparian leave tree areas, other regulatory leave areas, or voluntary leave areas that contain wildlife reserve trees and/or green recruitment trees.

(f) In order to provide for safety, landowners may remove any Type 3 or 4 wildlife reserve tree which poses a threat to humans working, recreating, or residing within the hazard area of that tree. In order to provide for fire safety, the distribution of wildlife reserve tree retention areas, described in (e) of this subsection, may be modified as necessary based on a wildlife reserve tree management plan proposed by the landowner and approved by the department.

WSR 94-01-152

EMERGENCY RULES

DEPARTMENT OF FISHERIES

[Order 93-143—Filed December 21, 1993, 1:50 p.m.]

Date of Adoption: December 21, 1993.

Purpose: Commercial fishing regulations.

Citation of Existing Rules Affected by this Order:

Repealing WAC 220-52-073.

Statutory Authority for Adoption: RCW 75.08.080.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: Harvestable numbers of red sea urchins are available for an extended fishery this week.

Effective Date of Rule: Immediately.

December 21, 1993

Gene DiDonato
for Robert Turner
Director

NEW SECTION

WAC 220-52-07300R Sea urchins. Notwithstanding the provisions of WAC 220-52-073, effective immediately until further notice, it is unlawful to take or possess sea urchins taken for commercial purposes except as provided for in this section:

(1) Red sea urchins: Sea urchin district 5 is open and will close when the district quota is taken. It is unlawful to harvest red sea urchins greater or smaller in size than the following (size is diameter exclusive of the spines):

(a) 3.25 to 4.5 inches

(b) FISHING PERIODS: Effective immediately through Thursday, December 23, 1993.

Effective December 27, 1993 until the district quota is taken, fishing is open on Monday and Tuesday of each week.

(2) Green sea urchins: Sea urchin districts 1, 2, 5, and Marine Fish/Shellfish Management and Catch Reporting Areas 26B, 26D, and 28A are open Monday and Tuesday only and will close when a total of 600,000 pounds are taken. The minimum size for green sea urchins is 2.25 inches in diameter exclusive of the spines.

(3) In addition to the closed areas shown in WAC 220-52-073, the following areas are closed to the commercial harvest of sea urchins at all times.

(a) Waters of Neah Bay west and south of a line from Klachopis Point to the northern tip of Waadah Island thence westerly to landfall one-quarter mile due south of Koitlah Point.

(b) Waters of Makah Bay east of a line from Waatch Point to Portage Head.

(c) All provisions of WAC 220-52-073 not inconsistent with the provisions of this section remain in effect.

REPEALER

The following section of the Washington Administrative Code is repealed:

WAC 220-52-07300Q Sea urchins. (93-141)

WSR 94-01-154
EMERGENCY RULES
BOARD OF

PILOTAGE COMMISSIONERS

[Filed December 21, 1993, 1:59 p.m., effective December 29, 1993]

Date of Adoption: December 9, 1993.

Purpose: To extend the effective period for an emergency rule amending the tariff for the Grays Harbor pilotage district.

Citation of Existing Rules Affected by this Order: Amending WAC 296-116-185.

Statutory Authority for Adoption: RCW 88.16.035.

Other Authority: RCW 34.05.350(2).

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: The severe decline in vessel traffic in the Grays Harbor area necessitated an emergency increase in the pilotage tariff to provide revenue for pilotage services. The effective period for the emergency rule adopted September 1, 1993, is expiring and an extension is necessary. The board has been reviewing the facts giving rise to the emergency rule and has noted WAC 296-116-185 for hearing for permanent adoption on January 27, 1994.

Effective Date of Rule: December 29, 1993.

December 21, 1993

Susan P. Jensen

Assistant Attorney General

GRAYS HARBOR PILOTAGE DISTRICT TARIFF

[AMENDATORY SECTION (Amending WSR 93-13-055, filed 6/13/93)]

WAC 296-116-185 Tariffs and pilotage rates for the Grays Harbor pilotage district

CLASSIFICATION OF PILOTAGE SERVICE RATE

Piloting of vessels in the inland waters and tributaries of Grays Harbor:

Each vessel shall be charged according to its draft and tonnage. The draft charges shall be \$61.19 per meter (or \$18.62 per foot) and the tonnage charge shall be \$0.19513 per net registered ton. The minimum net registered tonnage charge is \$682.72. The charge for an extra vessel (in case of tow) is \$390.14.

Boarding fee:

Per each boarding/deboarding from a boat \$294.35

Harbor shifts:

For each shift from dock to dock, dock to anchorage, anchorage to dock, or anchorage to anchorage \$489.40
Delays per hour \$116.70
Cancellation charge (pilot only) \$195.07
Cancellation charge (pilot boat only) . . . \$585.20

Travel allowance:

Boarding or debarking a vessel off Grays Harbor entrance \$90.57

Pilot when traveling to an outlying port to join a vessel or returning through an outlying port from a vessel which has been piloted to sea shall be paid \$682.73 for each day or fraction thereof, and the travel expense incurred \$682.73

Bridge transit:

Charge for each bridge transited \$214.24

Miscellaneous:

The balance of amounts due for pilotage rates not paid within 30 days of invoice will be assessed at 1 1/2% per month late charge.

Reviser's note: The bracketed material preceding the section above was supplied by the code reviser's office.

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules. The rule published above varies from its predecessor in certain respects not indicated by the use of these markings.

WSR 94-01-165
EMERGENCY RULES
DEPARTMENT OF AGRICULTURE

[Filed December 21, 1993, 4:04 p.m.]

Date of Adoption: December 21, 1993.

Purpose: To exempt watercore as a quality factor in the Fuji variety of apples. Current grading rules consider damage by invisible watercore as a defect of Washington extra fancy and fancy grades after January 31st of the year following the year of production.

Citation of Existing Rules Affected by this Order: Amending WAC 16-403-145, 16-403-150, and 16-403-290.

Statutory Authority for Adoption: Chapter 15.17 RCW.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: The Fuji variety is very new to Washington state with the 1993 crop being approximately the fourth year of commercial production.

EMERGENCY

The 1993 apple harvest was late in general, with Fuji variety being the last harvested variety due to its long growing season requirement. Conclusion of harvest on Fuji was about mid November.

By the time the growers and packers of Fuji apples had opportunity to assess the internal quality of the crop, there was insufficient time remaining to proceed with the normal rule-making process in order for the watercore exemption to become effective by February 1 deadline. (Under the current grade standards, damage by invisible watercore becomes a quality or grade defect following January 31.)

Watercore is not necessarily detrimental to quality unless the apple discolors internally or breaks down, usually following a long storage period of several months. With the relative inexperience in growing Fuji variety in the Pacific Northwest, and the sporadic occurrence of watercore from season to season, it is not yet known how watercore will behave following extended cold storage. This variety may react differently than other varieties, e.g., the Fuji apple may not discolor or breakdown as is sometimes the case with Red Delicious, etc. Given the typical late harvesting dates for Fuji, the storage period prior to February 1 is obviously must shorter for Fuji than for other red varieties of apples.

Under Washington extra fancy and fancy grades, damage by invisible watercore is considered a defect of grade and must be held to the combined tolerances with all other external grade factors, following January 31. The same is true for U.S. extra fancy and fancy. The only permissible grade available for watercore damaged fresh market apples is U.S. No. 1.

The Fuji variety is currently marketed heavily overseas and commands a premium price due to its limited production. The Washington Growers Clearing House Bulletin No. 12, November 16, 1993, reported Washington extra fancy grade Fuji for export ranged in price from \$40 to \$60 per carton, 72 size and larger. Size 100s were quoted at \$20 to \$24. In comparison, Red Delicious were at \$12 to \$22, and \$11 to \$18 respectively for the same grade and sizes.

By requiring this variety to be sold as U.S. No. 1 grade, a very substantial price discount will occur, in that the U.S. No. 1 grade is generally viewed as being a minimum level of commercial quality in apples.

As production increases and the industry gains added experience with storage and postharvest condition in the Fuji variety, the need may arise for reevaluation of this factor as a grade defect. In the interim, however, it does not seem appropriate to classify and treat watercore in Fuji in the same manner as other earlier season red varieties of apple. doing so artificially devalues a very high demand product and diminishes returns to producers.

Effective Date of Rule: Immediately.

December 20, 1993

James M. Jesernig

Director

AMENDATORY SECTION (Amending Order 1374, filed 7/26/74, effective 9/1/74)

WAC 16-403-145 Red, partial red or blushed varieties—Washington extra fancy. ((+)) Washington extra fancy consists of apples of one variety which are mature but not overripe, carefully hand picked, clean, fairly

well formed; free from decay, internal browning, internal breakdown, scald, scab, bitter pit, Jonathan spot, freezing injury, visible watercore, and broken skins and bruises except those which are slight and incident to proper handling and packing. The apples are also free from injury caused by smooth net-like russetting, sunburn or spray-burn, limb rubs, hail, drought spots, scars, disease, insects, or other means; and free from damage by smooth solid, slightly rough or rough russetting, or stem or calyx cracks, and free from damage by invisible watercore after January 31st of the year following the year of production: Provided, That invisible watercore shall not be a quality factor of Fuji variety at any time of the year. Each apple of this grade has the amount of color specified in WAC 16-403-155 for the variety.

AMENDATORY SECTION (Amending Order 1374, filed 7/26/74, effective 9/1/74)

WAC 16-403-150 Red, partial red or blushed varieties—Washington fancy. ((+)) Washington fancy consists of apples of one variety which are mature but not overripe, carefully hand picked, clean, fairly well formed; free from decay, internal browning, internal breakdown, bitter pit, Jonathan spot, scald, freezing injury, visible watercore, and broken skins and bruises, except those which are incident to proper handling and packing. The apples are also free from damage caused by russetting, sunburn or sprayburn, limb rubs, hail, drought spots, scars, stem or calyx cracks, disease, insects, invisible watercore after January 31st of the year following the year of production, or damage by other means: Provided, That invisible watercore shall not be a quality factor of Fuji variety at any time of the year. Each apple of this grade has the amount of color specified in WAC 16-403-155 for the variety.

AMENDATORY SECTION (Amending Order 1374, filed 7/26/74, effective 9/1/74)

WAC 16-403-290 Damage by invisible watercore. (See chart below.)

DAMAGE BY INVISIBLE WATERCORE

affects:

Wash. extra fancy and Wash. fancy grades, except Fuji variety, after *February 1 of year following production* and affecting U.S. condition standards for export *anytime*.

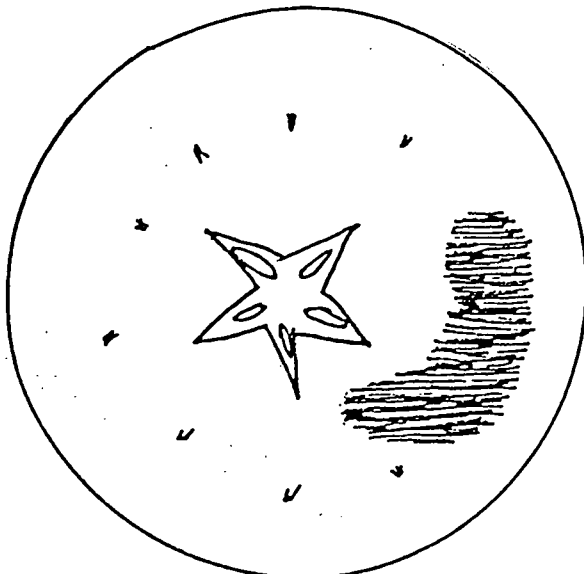
THIS

- 1. existing around core and extending to watercore in vascular bundles



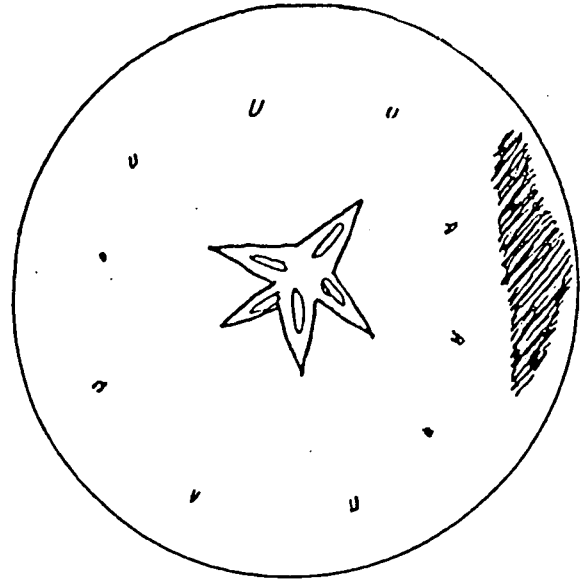
OR THIS

- 2. surrounding vascular bundles when affected areas around three or more bundles meet or coalesce



OR THIS

- 3. more than slight degree outside circular area formed by vascular bundles



WSR 94-01-188
EMERGENCY RULES
OFFICE OF MINORITY AND
WOMEN'S BUSINESS ENTERPRISES
 [Filed December 22, 1993, 10:17 a.m.]

Purpose: To implement a system for charging political subdivisions in Washington state a portion of OMWBE's biennial budget pursuant to legislative mandate.

Statutory Authority for Adoption: RCW 39.19.220.

Pursuant to RCW 34.05.350 the agency for good cause finds that immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.

Reasons for this Finding: The effective date of the legislation was July 1, 1993. The office is dependent on these revenues since it is no longer supported by the state's general fund. Many political subdivisions are either unaware of the requirement of await instructions on how to comply with the law.

Effective Date of Rule: Immediately.

December 22, 1993
 James A. Medina
 Director

NEW SECTION

WAC 326-02-034 Political subdivision fees. It is the intent of the state legislature that political subdivisions within the state of Washington contribute to the costs of the state's certification program for minority and women's business enterprises. For the purpose of this section, political subdivisions means any city, town, county, special purpose district, public corporation created by the state, municipal corporation, or quasi-municipal corporation within the state of Washington.

EMERGENCY

(1) Effective July 1, 1993, the office shall charge a fee to political subdivisions for a portion of the office's biennial operational costs, to be prorated based on the relative expenditures for public works by each political subdivision.

(2) The office shall allocate a portion of its biennial cost of operations to the political subdivisions as a group. Each political subdivision shall pay the percentage of this allocation which is equal to its proportionate share as calculated in subparagraph three (b) of this section.

(3) The fee for the period, July 1, 1993 - June 30, 1995, will be determined as follows:

(a) Each political subdivision shall report to the office the total public works contract dollars committed (including direct awards, subcontracts, and suppliers) in calendar years 1991-1992 to businesses certified by the office.

(b) The sum of these commitments will be divided by the commitment of each political subdivision to calculate proportionate share. The proportionate share will be adjusted as additional political subdivisions participate in the program.

(4) For succeeding biennia, the political subdivisions shall report the total public works contract dollars committed (including direct awards, subcontracts, and suppliers) during the two preceding calendar years to businesses certified by the office. The proportionate share for each political subdivision will be determined as set forth in subparagraph three (b) of this section.

(5) The office will mail invoices on a quarterly basis. Payments shall be made within thirty calendar days after receipt of the invoice; Provided, that the first payment shall be made no later than January 30, 1994 and shall cover the period of July 1, 1993 through December 31, 1993.

AGENCY RULES COORDINATORS

Designations as of 12/22/93

| AGENCY | RULES COORDINATOR | PHONE | ADDRESS |
|--|------------------------|---------------------------|---|
| Accountancy, Board of | Carey L. Rader | (206) 753-2585 | P.O. Box 43110 Olympia, WA 98504-3110 |
| Administrative Hearings, Office of | Pauline Corthell | (206) 664-8717 | P.O. Box 42488 Olympia, WA 98504-2488 |
| Agriculture, Department of | Dannie M. McQueen | (206) 902-1809 | P.O. Box 42562 Olympia, WA 98504-2562 |
| Arts Commission | Karen Kamara Gose | (206) 753-3860 | P.O. Box 42675 Olympia, WA 98504-2675 |
| Asian American Affairs, Commission on | Patricia M. Lee | (206) 464-5820 | P.O. Box 40925 Olympia, WA 98504-0925 |
| Attorney General's Office | Jane Halligan | (206) 753-6207 | P.O. Box 40115 Olympia, WA 98504-0115 |
| Basic Health Plan | Leslie Thorpe | (206) 586-5332 | P.O. Box 42535 Olympia, WA 98504-2535 |
| Bates Technical College | John G. Thorpe | | 1101 South Yakima Avenue Tacoma, WA 98405 |
| Bellevue Community College | Elise Erickson | (206) 641-2301 | 3000 Landerholm Circle SE Bellevue, WA 98007 |
| Bellingham Technical College | Jody McBee | (206) 676-7749 | 3028 Lindberg Avenue Bellingham, WA 98225 |
| Big Bend Community College | Robert Sorenson | (509) 762-5351 | 28th and Chanute Streets Moses Lake, WA 98837-3299 |
| Blind, Department of Services for the | Bonnie Jindra | (206) 586-0275 | P.O. Box 40933 Olympia, WA 98504-0933 |
| Blind, Washington State School for the | Larry Drotz | (206) 696-6620 | 611 Grand Boulevard, S-26 Vancouver, WA 98661 |
| Building Code Council | William E. O'Neil, Jr. | (206) 586-0486 | P.O. Box 48300 Olympia, WA 98504-8300 |
| Central Washington University | Judy B. Miller | (509) 963-2111 | 400 East 8th Avenue Ellensburg, WA 98926-7502 |
| Clark College | Janelle Farley | (206) 699-0101 | 1800 East McLoughlin Boulevard Vancouver, WA 98663 |
| Clover Park Technical College | G. James Capelli | (206) 589-5552 | 4500 Steilacoom Boulevard S.E. Tacoma, WA 98499 |
| Code Reviser | Kerry Radcliff | (206) 753-7470 | P.O. Box 40551 Olympia, WA 98504-0551 |
| Columbia Basin College | Louise Meyers | (509) 547-0511 ex. 202 | 2600 North 20th Avenue Pasco, WA 99301 |
| Community and Technical Colleges, State Board for | Claire Krueger | (206) 753-7413 | P.O. Box 42495 Olympia, WA 98504-2495 |
| Community Development, Department of | Cathie Halpin | (206) 586-1310 | P.O. Box 48300 Olympia, WA 98504-8300 |
| Conservation Commission | Bob Bottman | (206) 459-6229 | P.O. Box 47721 Olympia, WA 98504-7721 |
| Corrections, Department of | Kay Wilson-Kirby | (206) 753-5770 | P.O. Box 41114 Olympia, WA 98504-1114 |
| County Road Administration Board | Eric Berger | (206) 753-5989 | P.O. Box 40913 Olympia, WA 98504-0913 |
| Deaf, Washington State School for the | Larry Drotz | (206) 696-6620 | 611 Grand Boulevard, S-26 Vancouver, WA 98661 |
| Deferred Compensation, Committee for | Mary Bush | (206) 586-4980 | P.O. Box 40931 Olympia, WA 98504-0931 |
| Eastern Washington University | Ann M. Kienholz | (509) 359-6299 | MS-114, SHW 302 Cheney, WA 99004 |

MISCELLANEOUS

| | | | |
|---|------------------------|----------------------------|--|
| Ecology, Department of | Paige Boule | (206) 407-6161 | P.O. Box 47600 Olympia, WA 98504-7600 |
| Edmonds Community College | Barbara Patterson | (206) 640-1535 | 20000 68th Avenue West Lynnwood, WA 98036 |
| Education, State Board of | Richard M. Wilson | (206) 753-6715 | P.O. Box 47200 Olympia, WA 98504-7200 |
| Employment Security Department | John D. Nemes | (206) 438-4002 | P.O. Box 46000 Olympia, WA 98504-6000 |
| Energy Facility Site Evaluation Council | David W. Sjoding | (206) 956-2004 | P.O. Box 43172 Olympia, WA 98504-3172 |
| Environmental Hearings Office | William A. Harrison | (206) 459-6329 | P.O. Box 40903 Olympia, WA 98504-0903 |
| Everett Community College | Juli Boyington | (206) 388-9202 | 801 Wetmore Avenue Everett, WA 98201-1327 |
| Evergreen State College, The | Lee Hoemann | (206) 866-6000 ex. 6116 | TA-00 Olympia, WA 98505 |
| Financial Institutions, Department of | Susan Putzier | (206) 664-3508 | P.O. Box 41200 Olympia, WA 98504-1200 |
| Fisheries, Department of | Evan Jacoby | (206) 902-2930 | P.O. Box 43147 Olympia, WA 98504-3147 |
| Forest Practices Board | Judith M. Holter | (206) 902-1412 | P.O. Box 47012 Olympia, WA 98504-7012 |
| Gambling Commission | Sharon Mary Tolton | (206) 438-7685 | P.O. Box 42400 Olympia, WA 98504-2400 |
| General Administration, Department of | Steven H. Borchardt | (206) 753-4243 | P.O. Box 41018 Olympia, WA 98504-1018 |
| Grays Harbor College | Sandy Zelasko | (206) 532-4000 | Aberdeen, WA 98520-7599 |
| Green River Community College | Clark Townsend | (206) 833-9111 | 12401 S.E. 320th St. Auburn, WA 98002 |
| Growth Planning Hearings Boards | M. Peter Philley | (206) 389-2625 | 2329 One Union Square Seattle, WA |
| Health Care Authority | Elin Meyer | (206) 923-2801 | P.O. Box 42682 Olympia, WA 98504-2682 |
| Health, Department of | Ann Foster | (206) 664-9381 | P.O. Box 47902 Olympia, WA 98504-7902 |
| Health Services Commission | Leslie Thorpe | (206) 407-0047 | P.O. Box 41185 Olympia, WA 98504-1185 |
| Higher Education Coordinating Board | Karen B. Moton-Tate | (206) 586-8782 | P.O. Box 43430 Olympia, WA 98504-3430 |
| Highline Community College | President's Office | (206) 878-3710 | P.O. Box 98000 Des Moines, WA 98198-9800 |
| Horse Racing Commission | Patty Sorby | (206) 459-6462 | P.O. Box 40906 Olympia, WA 98504-0906 |
| Human Rights Commission | Sherri Apilado | (206) 753-4876 | P.O. Box 42490 Olympia, WA 98504-2490 |
| Indeterminate Sentence Review Board | Dennis Marsh | (206) 493-9266 | P.O. Box 40907 Olympia, WA 98504-0907 |
| Industrial Insurance Appeals, Board of | Teresa Loe | (206) 753-6824 | P.O. Box 42401 Olympia, WA 98504-2401 |
| Information Services, Department of | Steve Plunkett | (206) 753-7277 | P.O. Box 42440 Olympia, WA 98504-2440 |
| Insurance Commissioner | Arloween Manley | (206) 753-2406 | P.O. Box 40255 Olympia, WA 98504-0255 |
| Investment Board, State | Marilyn S. Evans | (206) 664-8907 | P.O. Box 40916 Olympia, WA 98504-0916 |
| Judicial Conduct, Commission on | David Akana | (206) 753-4585 | P.O. Box 40928 Olympia, WA 98504-0928 |
| Labor and Industries, Department of | Marie Myerchin-Redifer | (206) 956-4206 | P.O. Box 44001 Olympia, WA 98504-4001 |

MISCELLANEOUS

| | | | |
|---|----------------------|----------------|---|
| Lake Washington Technical College | Vice-President | | 11605 132nd Avenue N.E. Kirkland, WA 98034-8506 |
| Library, Washington State | Linda Matson | (206) 753-2914 | P.O. Box 42464 Olympia, WA 98504-2464 |
| Licensing, Department of | Walt Fahrer | (206) 586-3503 | P.O. Box 48016 Olympia, WA 98504-8016 |
| Liquor Control Board | M. Carter Mitchell | (206) 753-6276 | P.O. Box 43075 Olympia, WA 98504-3075 |
| Lottery Commission | Jeffrey Burkhardt | (206) 586-1088 | P.O. Box 43025 Olympia, WA 98504-3025 |
| Lower Columbia College | Virginia M. Koken | (206) 577-2322 | P.O. Box 3010 Longview, WA 98632-0310 |
| Marine Employees' Commission | Louis O. Stewart | (206) 586-6354 | P.O. Box 40902 Olympia, WA 98504-0902 |
| Marine Safety, Office of | Barbara Felver | (206) 664-9110 | P.O. Box 42407 Olympia, WA 98504-2407 |
| Maritime Commission | Richard Buchanan | (206) 623-4990 | c/o LeGros, Buchanan & Paul 2500 Columbia Center 701 5th Avenue Seattle, WA 98104-7051 |
| Minority and Women's Business Enterprises | Efleda R. Reyes | (206) 753-9691 | P.O. Box 41160 Olympia, WA 98504-1160 |
| Natural Resources, Department of | Dave Dietzman | (206) 902-1600 | P.O. Box 47000 Olympia, WA 98504-7000 |
| Olympic College | Donna M. Allen Ed.D. | (206) 478-4544 | 1600 Chester Avenue Bremerton, WA 98310-1699 |
| Outdoor Recreation, Interagency Committee for | Debra Wilhelmi | (206) 902-3005 | P.O. Box 40917 Olympia, WA 98504-0917 |
| Parks and Recreation Commission | Sharon Howdeshell | (206) 753-5755 | P.O. Box 42650 Olympia, WA 98504-2650 |
| Peninsula College | Bonnie Cauffman | (206) 452-9277 | 1502 East Lauridsen Boulevard Port Angeles, WA 98362 |
| Personnel Appeals Board | Victoria Sheldon | (206) 586-1481 | P.O. Box 40911 Olympia, WA 98504-0911 |
| Personnel, Department of | Sandy Brownrigg | (206) 753-0381 | P.O. Box 47500 Olympia, WA 98504-7500 |
| Pierce College | Christine D. Givens | (206) 964-6500 | 9401 Farwest Drive S.W. Tacoma, WA 98498 |
| Pilotage Commissioners | Peggy Larson | (206) 464-7818 | 801 Alaskan Way Pier 52 Seattle, WA 98104-1487 |
| Pollution Liability Insurance Agency | Deanna Bourgault | (206) 586-5997 | P.O. Box 40930 Olympia, WA 98504-0930 |
| Public Disclosure Commission | Karen Copeland | (206) 753-1111 | P.O. Box 40908 Olympia, WA 98504-0908 |
| Public Employment Relations Commission | Kenneth J. Latsch | (206) 753-3444 | P.O. Box 40919 Olympia, WA 98504-0919 |
| Public Instruction, Superintendent of | Richard M. Wilson | (206) 753-2298 | P.O. Box 47200 Olympia, WA 98504-7200 |
| Public Works Board | Pete Butkus | (206) 586-0663 | P.O. Box 48319 Olympia, WA 98504-8319 |
| Puget Sound Water Quality Authority | Marc Jerden | (206) 464-7320 | P.O. Box 40900 Olympia, WA 98504-0900 |
| Renton Technical College | Charles DeMoss | (206) 235-2352 | 3000 N.E. Fourth Street Renton, WA 98056 |
| Retirement Systems, Department of | Paul Neal | (206) 586-3414 | P.O. Box 48380 Olympia, WA 98504-8380 |
| Revenue, Department of | Les Jaster | (206) 586-7150 | P.O. Box 47458 Olympia, WA 98504-7458 |

MISCELLANEOUS

| | | | |
|--|---------------------------|----------------|---|
| Seattle Community Colleges | James E. Christiansen | (206) 587-4160 | 1500 Harvard District VI Offices Seattle, WA 98122 |
| Shoreline Community College | Chuck Fields | (206) 546-4641 | 16101 Greenwood Avenue North Seattle, WA 98133-5667 |
| Skagit Valley College | Judi Knutzen | (206) 428-1183 | Auxilliary Services 2405 College Way Mt. Vernon, WA 98273 |
| Social and Health Services, Department of | Sharon Staley | (206) 586-6423 | P.O. Box 45811 Olympia, WA 98504-5811 |
| South Puget Sound Community College | Patty Pynch | (206) 754-7711 | 2011 Mottman Road S.W. Olympia, WA 98502 |
| Spokane, Community Colleges of | Geoffrey J. Eng | (509) 533-8667 | North 2000 Greene Street MS 1014 Spokane, WA 99207-5499 |
| Tacoma Community College | Irene Hardy | (206) 566-5101 | 5900 South 12th Street Tacoma, WA 98465 |
| Tax Appeals, Board of | Matthew J. Coyle | (206) 753-5446 | P.O. Box 40915 Olympia, WA 98504-0915 |
| Trade and Economic Development, Department of | Robin Pollard | (206) 586-4848 | P.O. Box 42500 Olympia, WA 98504-2500 |
| Traffic Safety Commission | Cynthia Coleman | (206) 753-6197 | P.O. Box 40944 Olympia, WA 98504-0944 |
| Transportation, Commission and Department of | Bill Richeson | (206) 705-7761 | P.O. Box 47410 Olympia, WA 98504-7410 |
| Transportation Improvement Board | Donna Laing | (206) 753-7198 | P.O. Box 40901 Olympia, WA 98504-0901 |
| Treasurer, Office of the | Michael Temple | (206) 586-7293 | P.O. Box 40200 Olympia, WA 98504-0200 |
| University of Washington | Rebecca Goodwin Deardorff | (206) 543-9199 | 4014 University Way N.E. HI-29 Seattle, WA 98105 |
| Utilities and Transportation Commission | Paul Curl | (206) 753-6451 | P.O. Box 47251 Olympia, WA 98504-7251 |
| Veterans Affairs, Commission on | Tri Howard | (206) 753-0598 | P.O. Box 41150 Olympia, WA 98504-1150 |
| Volunteer Firefighters, Board for | Joseph Fabioun | (206) 753-7318 | P.O. Box 40945 Olympia, WA 98504-0945 |
| Walla Walla Community College | Merle Scott | (509) 527-4274 | 500 Tausick Way Walla Walla, WA 99362-926 |
| Washington State Patrol | Ronald J. Sandberg | (206) 753-4453 | P.O. Box 42607 Olympia, WA 98504-2607 |
| Washington State University | Lou Ann Pasquan | (509) 335-3543 | Pullman, WA 99164 |
| Wenatchee Valley College | Ann Pieratt | (509) 664-2553 | 1300 Fifth Street Wenatchee, WA 98801-1799 |
| Western Washington University | Gloria McDonald | (206) 676-2037 | Bellingham, WA 98225 |
| Whatcom Community College | Cliff Baacke | (206) 676-2170 | 237 West Kellogg Road Bellingham, WA 98226 |
| Wildlife, Commission and Department of | Richard Poelker | (206) 753-2921 | P.O. Box 41091 Olympia, WA 98504-1091 |
| Workforce Training and Education Coordinating Board | 'cita Waller | (206) 753-5673 | P.O. Box 43105 Olympia, WA 98504-3105 |
| Yakima Valley Community College | Suzanne West | (509) 575-2355 | P.O. Box 1647 Yakima, WA 98907 |

MISCELLANEOUS

WSR 94-01-006
NOTICE OF PUBLIC MEETINGS
SEATTLE COMMUNITY COLLEGES
 [Memorandum—November 29, 1993]

The Seattle Community College District board of trustees will hold their regular meeting on Tuesday, December 7, 1993, beginning with a work session at 4:00 p.m., an executive session, at 4:45 p.m., and a reception for newly tenured faculty, at 5:45 p.m. The regular meeting will reconvene at 6:00 p.m. This meeting will be held at North Seattle Community College, 9600 College Way North, Seattle, WA 98103.

WSR 94-01-007
NOTICE OF PUBLIC MEETINGS
COUNTY ROAD
ADMINISTRATION BOARD
 [Memorandum—December 1, 1993]

Public Meeting: January 20, 1994
 1:00 - 5:00 p.m.
 January 21, 1994
 9:00 - 12:00 noon
 County Road Administration Board
 Meeting Room
 2404 Chandler Court S.W.
 Suite 240
 Olympia

* Individuals requiring reasonable accommodation may request written materials in alternative formats, sign language interpreters, physical accessibility accommodations, or other reasonable accommodation, by contacting Karen Pendleton at (206) 753-5989, hearing and speech impaired persons can call 1-800-833-6384.

WSR 94-01-008
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF AGRICULTURE
(Hop Commission)
 [Memorandum—November 30, 1993]

The Washington Hop Commission has adopted a schedule for 1993 regular and annual meetings. Per WAC 16-532-020 (11)(a) we are required to hold four regular and one annual meeting each year. We file the following information, as required by RCW 42.30.075:

| | |
|-------------|-------------------------|
| February 24 | Toppenish |
| April 12 | Yakima |
| June 14 | Prosser |
| October 13 | Sunnyside |
| December 9 | Yakima (annual meeting) |

Interested parties may call the Washington Hop Commission at (509) 453-4749 for the time and site of each meeting.

WSR 94-01-009
RULES COORDINATOR
COMMUNITY COLLEGES OF SPOKANE
 [Filed December 2, 1993, 9:46 a.m.]

The rules coordinator for Community Colleges of Spokane has been changed.

Please add Geoffrey J. Eng, (509) 533-8667, SCAN 271-8667 as the present rules coordinator at Community Colleges of Spokane.

Terrance R. Brown
 Chief Executive Officer

WSR 94-01-015
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF
LABOR AND INDUSTRIES
(Board of Boiler Rules)
 [Memorandum—December 1, 1993]

The time and place of regular meetings for the Board of Boiler Rules for 1994 will be held on the following dates in January, March, May, September and November 1994 commencing at 10:00 a.m. A study day, which is open to the public, is for board discussion only and will be held on the Monday preceding the board meeting.

Dates and location are as follows:

| | | |
|--------------------|---------|--|
| January 17, 1994 | (Study) | Bellevue L&I Office |
| January 18, 1994 | | Skyline Tower - Room 1235 10900 N.E. 4th Street, Bellevue |
| March 21, 1994 | (Study) | Bellevue L&I Office |
| March 22, 1994 | | Bellevue L&I Office |
| May 16, 1994 | (Study) | Port Angeles L&I Office |
| May 17, 1994 | | Clallam County Courthouse EOC 223 East 4th, Port Angeles |
| September 19, 1994 | (Study) | Olympia L&I - Room S117 |
| September 20, 1994 | | Olympia L&I - Auditorium |
| November 21, 1994 | (Study) | Bellevue L&I Office |
| November 22, 1994 | | Tukwila L&I Office |

Note: Maps of the meeting locations will be mailed to those interested in attending. Please call (206) 956-5270 if more information is required.

WSR 94-01-016
NOTICE OF PUBLIC MEETINGS
BOARD OF
TAX APPEALS
 [Memorandum—December 1, 1993]

The Board of Tax Appeals scheduled its regular 1994 meetings at 10 a.m. on the second Thursday of March, June, September, and December. The meetings will be held at the board's offices, 910 5th Avenue S.E., Olympia, WA 98504-0915.

MISCELLANEOUS

WSR 94-01-017
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF
COMMUNITY DEVELOPMENT
 (Certification and Accreditation
 Guideline Committee)

[Memorandum—December 3, 1993]

**CERTIFICATION AND ACCREDITATION GUIDELINE
 COMMITTEE MEETINGS FOR 1994**

The meetings will be held at Kent Fire Station #73, 26512
 Military Road South, Kent, WA 98032.

1994 MEETING SCHEDULE

| | | | |
|---------------|-------------------|-------------------|------|
| January 7th | Committee Meeting | 9 a.m. to 12 noon | Kent |
| March 4th | Committee Meeting | 9 a.m. to 12 noon | Kent |
| May 6th | Committee Meeting | 9 a.m. to 12 noon | Kent |
| July 8th | Committee Meeting | 9 a.m. to 12 noon | Kent |
| September 9th | Committee Meeting | 9 a.m. to 12 noon | Kent |
| November 4th | Committee Meeting | 9 a.m. to 12 noon | Kent |

WSR 94-01-018
NOTICE OF PUBLIC MEETINGS
WASHINGTON STATE
HISTORICAL SOCIETY

[Memorandum—November 30, 1993]

December 10, 1993
 9:30 a.m.
 Legislative Building 403

WSR 94-01-019
NOTICE OF PUBLIC MEETINGS
COMMUNITY COLLEGES
OF SPOKANE

[Memorandum—December 1, 1993]

BOARD OF TRUSTEES
WASHINGTON COMMUNITY COLLEGE DISTRICT 17

Notice is hereby given, pursuant to RCW 42.30.075, that the regular meetings of the board of trustees of Washington Community College District 17 (The Community Colleges of Spokane) during calendar year 1994 shall be held at 1:30 p.m. on the following dates and in the following locations:

| Date | Location | Address |
|-------------------|----------|--|
| January 18, 1994 | SCC | Bigfoot Room, Lair 1810 North Greene Street |
| February 15, 1994 | SFCC | President's Conference Room Administration Building 3410 West Fort George Wright Drive |
| March 15, 1994 | District | District Board Room 2000 North Greene Street |
| April 19, 1994 | District | District Board Room 2000 North Greene Street |
| May 17, 1994 | SCC | Bigfoot Room, Lair 1810 North Greene Street |
| June 21, 1994 | District | District Board Room 2000 North Greene Street |
| July 19, 1994 | District | District Board Room 2000 North Greene Street |

| | | |
|--------------------|----------|--|
| August 16, 1994 | District | District Board Room 2000 North Greene Street |
| September 20, 1994 | District | District Board Room 2000 North Greene Street |
| October 18, 1994 | District | District Board Room 2000 North Greene Street |
| November 15, 1994 | SFCC | President's Conference Room Administration Building 3410 West Fort George Wright Drive |
| December 20, 1994 | District | District Board Room 2000 North Greene Street |

WSR 94-01-020
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF AGRICULTURE
 (Wheat Commission)

[Memorandum—November 30, 1993]

The Washington Wheat Commission hereby complies with regulations as stated in RCW 42.30.075 and provides pertinent scheduled meeting information of the board of directors for publication in the State Register for the period January 1994 through December 1994 as follows:

Regular - January 11 (10:00 a.m.) & 12 (8:30 a.m.)
 West 907 Riverside Avenue
 Spokane, WA

Regular - March 23 (10:00 a.m.) & 24 (8:30 a.m.)
 West 907 Riverside Avenue
 Spokane, WA

Annual - May 18 (10:00 a.m.) & 19 (8:30 a.m.)
 West 907 Riverside Avenue
 Spokane, WA

Regular - September 21 (10:00 a.m.) & 22 (8:30 a.m.)
 West 907 Riverside Avenue
 Spokane, WA

Regular - November 16 (10:00 a.m.) & 17 (8:30 a.m.)
 West 907 Riverside Avenue
 Spokane, WA

WSR 94-01-023
RULES COORDINATOR
STATE BOARD FOR
COMMUNITY AND TECHNICAL COLLEGES

[Filed December 6, 1993, 9:56 a.m.]

The agency rules coordinator for our agency is: Claire Krueger, State Board for Community and Technical Colleges, P.O. Box 42495, Olympia, WA 98504-2495, phone 753-7413 or SCAN 234-7413.

Claire Krueger
 Executive Assistant

MISCELLANEOUS

WSR 94-01-024
RULES OF COURT
STATE SUPREME COURT
 [December 21, 1993]

IN THE MATTER OF THE ADOPTION
 OF THE AMENDMENTS
 TO RAP 9.2, RAP 9.3, RAP 9.4,
 RAP 9.5 AND CR 80

ORDER
 NO. 25700-A-537

The Video Evaluation Committee having recommended the adoption of the proposed amendments to RAP 9.2, RAP 9.3 RAP 9.4, RAP 9.5 and CR 80, and the Court having determined that the proposed amendments will aid in the prompt and orderly administration of justice and further determined that an emergency exists which necessitates an early adoption;

Now, therefore, it is hereby

ORDERED:

(a) That the amendments as attached hereto are adopted.

(b) That pursuant to the emergency provisions of GR 9(i), the amendments will be published expeditiously in the Washington Reports and will become effective upon publication.

DATED at Olympia, Washington this 2nd day of December, 1993.

James A. Andersen

| | |
|---|---|
| _____ Utter, J. _____ Durham, J. _____ Brachtenbach, J. _____ Dolliver, J. | _____ Smith, J. _____ Guy, J. _____ Johnson, J. _____ Madsen, J. |
|---|---|

RAP 9.2
Verbatim Report of Proceedings
Suggested Rule Change
GR 9(d) Cover Sheet

(1) **Background.** The amendment to RAP 9.2 was initiated by the Video Evaluation Committee. It is part of a series of rule changes proposed by the Committee to set forth appellate procedures to be used when the proceeding on appeal was recorded on videotape.

There are currently 17 superior courts in the state that use video to record trial proceedings. Preparing a transcript from videotapes raises issues not present when a court reporter is involved. If a court reporter records the proceedings, the party can order a transcript from the reporter. When the proceeding has been recorded on videotape, there are no procedures for how to order a transcript or on who should prepare the transcript. Through a series of rule changes, the Committee is recommending procedures that will ensure an accurate record is produced.

(2) **Purpose.** Rule 9.2 states the procedures for having a written transcript prepared, including the filing of the statement of arrangements, the content of the transcript, payment of expenses, table of contents, and the format of the transcript. The proposed change would incorporate proce-

dures when the proceeding on review was recorded on videotape.

The proposed change to section (a) would require would require transcripts from videotaped proceedings be prepared by a court-approved transcriber under procedures developed by the Office of the Administrator for the Courts (OAC). The intent of this provision is to delegate to OAC the responsibility for developing specific procedures for how a party can make arrangements to have a transcript prepared and to set standards for who can prepare the transcript.

(3) **Washington State Bar Association Action.** None.

(4) **Supporting Material.** The final report of the Video Evaluation Committee, August, 1992.

(5) **Spokesperson.** Judge Ray E. Munson, Chair, Video Evaluation Committee.

(6) **Hearing.** Not recommended.

RAP 9.2
VERBATIM REPORT OF PROCEEDINGS

(a) **Transcription and Statement of Arrangements.** If the party seeking review intends to provide a verbatim report of proceedings, the party should arrange for transcription of and payment for an original and one copy of the verbatim report of proceedings within 45 days after acceptance of review. If the proceeding being reviewed was recorded on videotape, transcription of the videotapes shall be completed by a court-approved transcriber in accordance with procedures developed by the Office of Administrator for the Courts. Copies of these procedures are available at the court administrator's office in each county where there is a courtroom that videotapes proceedings or through the Office of the Administrator for the Courts. The party seeking review must file with the appellate court a statement that arrangements have been made for the transcription of the report. The statement must be filed within 45 days after acceptance of review. The party must indicate the date that the statement was ordered and the financial arrangements which have been made for payment of transcription costs.

(b) **Content.** A party should arrange for the transcription of only those portions of the verbatim report of proceedings necessary to present the issues raised on review. If the party seeking review intends to urge that a verdict or finding of fact is not supported by the evidence, the party should include in the record all evidence relevant to the disputed verdict or finding. If the party seeking review intends to urge that the court erred in giving or failing to give an instruction, the party should include in the record all of the instructions given, the relevant instructions proposed, the party's objections to the instructions given, and the court's ruling on the objections.

(c) **Notice of Partial Report of Proceedings and Issues.** If a party seeking review arranges for less than all of the verbatim report of proceedings, the party should file and serve on all other parties within 45 days after review is accepted a description of the parts of the verbatim report of proceedings which the party intends to include in the record and a statement of the issues the party intends to present on review. Any other party who wishes to add to the verbatim report of proceedings should within 10 days after service of the description and notice file and serve on all other parties a designation of additional parts of the verbatim report of proceedings. If the party seeking review refuses to provide

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the additional parts of the verbatim report of proceedings, the party seeking the additional parts may provide them at the party's own expense or apply to the trial court for an order requiring the party seeking review to pay for the additional parts of the verbatim report of proceedings.

(d) **Payment of Expenses.** If a party fails to make arrangements for payment of the costs of the verbatim report of proceedings at the time the verbatim report of proceedings is ordered, the party may be subject to sanctions as provided in rule 18.9.

(e) **Table of Contents.** The verbatim report of proceedings should include a table of contents indicating, under the headings listed below, the pages where the following appear:

(1) *Proceedings.* The beginning of each proceeding and the nature

RAP 9.3
Narrative Report of Proceedings
Suggested Rule Change
GR 9(d) Cover Sheet

(1) Background. The amendment to RAP 9.3 was initiated by the Video Evaluation committee. It is part of a series of rule changes proposed by the Committee to set forth appellate procedures to be used when the proceeding on appeal was recorded on videotape.

There are currently 17 superior courts in the state that use video to record trial proceedings. Preparing a transcript from videotapes raises issues not present when a court reporter is involved. If a court reporter records the proceedings, the party can order a transcript from the reporter. When the proceeding has been recorded on videotape, there are no procedures for how to order a transcript or on who should prepare the transcript. Through a series of rule changes, the Committee is recommending procedures that will ensure an accurate record is produced.

(2) Purpose. Rule 9.3 provides that the party seeking review may prepare a narrative report of proceedings. The proposed change adds a new line providing that an agreed report of proceedings may be prepared if either the court reporter notes or the videotape of the proceeding being reviewed are lost or damaged.

The purpose of the proposed change is to address the issue of a lost or damaged record, whether the record is a videotape or reporter's notes. The proposed language to this rule would not require a narrative report of proceedings to be prepared if one of these situations occurred, but would permit one to be prepared. The same language is proposed for RAP 9.4, which covers an agreed report of proceedings. Adoption of both these amendments would provide the party seeking review to with two options for a substitute record if the original record is lost or destroyed.

(3) Washington State Bar Association Action. None.

(4) Supporting Material. The final report of the Video Evaluation Committee, August, 1992.

(5) Spokesperson. Judge Ray E. Munson, Chair, Video Evaluation Committee.

(6) Hearing. Not recommended.

RAP 9.3
NARRATIVE REPORT OF PROCEEDINGS

The party seeking review may prepare a narrative report of proceedings. A party preparing a narrative report must

exercise the party's best efforts to include a fair and accurate statement of the occurrences in and evidence introduced in the trial court material to the issues on review. A narrative report should be in the same form as a verbatim report, as provided in rule 9.2 (e) and (f). If any party prepares a verbatim report of proceedings, that report will be used as the report of proceedings for the review. An agreed report of proceedings may be prepared if either the court reporter's notes or the videotape of the proceeding being reviewed are lost or damaged.

RAP 9.4
Agreed Report of Proceedings
Suggested Rule Change
GR 9(d) Cover Sheet

(1) Background. The amendment to RAP 9.4 was initiated by the Video Evaluation Committee. It is part of a series of rule changes proposed by the Committee to set forth appellate procedures to be used when the proceeding on appeal was recorded on videotape.

There are currently 17 superior courts in the state that use video to record trial proceedings. Preparing a transcript from videotapes raises issues not present when a court reporter is involved. If a court reporter records the proceedings, the party can order a transcript from the reporter. When the proceeding has been recorded on videotape, there are no procedures for how to order a transcript or on who should prepare the transcript. Through a series of rule changes, the Committee is recommending procedures that will ensure an accurate record is produced.

(2) Purpose. Rule 9.4 provides that the parties may prepare and sign an agreed report of proceedings. The proposed change adds a new line providing that an agreed report of proceedings may be prepared if either the court reporter notes or the videotape of the proceeding being reviewed are lost or damaged.

The purpose of the proposed change is to address the issue of a lost or damaged record, whether the record is a videotape or reporter's notes. The proposed language to this rule would not require an agreed report of proceedings to be prepared if one of these situations occurred, but would permit one to be prepared. The same language is proposed for RAP 9.3, which covers a narrative report of proceedings. Adoption of both these amendments would provide the parties with two options for a substitute record if the original record is lost or destroyed.

(3) Washington State Bar Association Action. None.

(4) Supporting Material. The final report of the Video Evaluation Committee, August, 1992.

(5) Spokesperson. Judge Ray E. Munson, Chair, Video Evaluation Committee.

(6) Hearing. Not recommended.

RAP 9.4
AGREED REPORT OF PROCEEDINGS

The parties may prepare and sign an agreed report of proceedings setting forth only so many of the facts averred and proved or sought to be proved as are essential to the decision of the issues presented for review. The agreed report of proceedings must include only matters which were actually before the trial court. An agreed report of proceedings should be in the same form as a verbatim report, as

provided in rule 9.2 (e) and (f). An agreed report of proceedings may be prepared if either the court reporter's notes or the videotape of the proceeding being reviewed are lost or damaged.

RAP 9.5
Filing and Service of Report of
Proceedings - Objections
Suggested Rule Change
GR 9(d) Cover Sheet

(1) Background. The amendment to RAP 9.5 was initiated by the Video Evaluation Committee. It is part of a series of rule changes proposed by the Committee to set forth appellate procedures to be used when the proceeding on appeal was recorded on videotape.

There are currently 17 superior courts in the state that use video to record trial proceedings. Preparing a transcript from videotapes raises issues not present when a court reporter is involved. If a court reporter records the proceedings, the party can order a transcript from the reporter. When the proceeding has been recorded on videotape, there are no procedures for how to order a transcript or on who should prepare the transcript. Through a series of rule changes, the Committee is recommending procedures that will ensure an accurate record is produced.

(2) Purpose. The current rule in section (b) refers to a court reporter as the person who prepares and files the transcript. The proposed change would provide that a person transcribing video can also prepare and file the transcript. The purpose of this change is to make it clear that a videotape can be transcribed by someone who is not a court reporter.

Another change in section (b) would add that the sanctions for failure to timely file the verbatim report of proceedings are those provided in Rule 18.9. Rule 9.5 currently says only that the transcriber may be subject to sanctions. Rule 18.9 states that a person authorized to prepare a verbatim report of proceedings who uses the rules for the purpose of delay or who fails to comply with these rules may be ordered to pay terms or compensatory damages to any other party who has been harmed by the delay or the failure to comply. The purpose of this change is to notify the transcribers what sanctions may be applied.

(3) Washington State Bar Association Action. None.

(4) Supporting Material. The final report of the Video Evaluation committee, August, 1992.

(5) Spokesperson. Judge Ray E. Munson, Chair, Video Evaluation Committee.

(6) Hearing. Not recommended.

RAP 9.5
FILING AND SERVICE OF REPORT OF
PROCEEDINGS—OBJECTIONS

(a) Generally. The party seeking review must file the report of proceedings with the clerk of the trial court within 90 days after review is accepted by the appellate court, except that the court reporter must file a verbatim report of proceedings. If the proceeding being reviewed was recorded on videotape, the transcript must be filed by the transcriber with the clerk of the trial court within 90 days after review is accepted by the appellate court. The party who caused a report of proceedings to be filed should at the time of filing

the report of proceedings serve one copy on an adverse party and serve and file proof of the service on all other parties.

(b) Filing and Service of Verbatim Report of Proceedings. If a verbatim report of proceedings cannot be completed within 90 days after review is accepted by the appellate court, the court reporter or video transcriber shall, no later than 10 days before the report of proceedings is due to be filed, submit an affidavit stating the reasons for the delay to the party who filed the statement of arrangements; the party should move for an extension of time from the appellate court. The clerk will notify the parties of the action taken on the motion. When the court reporter or video transcriber files the verbatim report of proceedings, ~~the reporter shall provide~~ a copy shall be provided to the party who ~~has~~ arranged for transcription and either the reporter or video transcriber shall serve and file notice of the filing on all other parties. Failure to timely file the verbatim report of proceedings may subject the court reporter or video transcriber to sanctions as provided in rule 18.9.

(c) Objections to Report of Proceedings. A party may serve and file objections to, and propose amendments to, a narrative report of proceedings or a verbatim report of proceedings within 10 days after receipt of the report of proceedings or receipt of the notice of filing of the report of proceedings. If objections or amendments to the report of proceedings are served and filed, any objections or proposed amendments must be heard by the trial court judge before whom the proceedings were held for settlement and approval, except objections to the form of a report of proceedings, which shall be heard by motion in the appellate court. The court may direct a party or a reporter or typist transcribing videotape to pay for the expense of any modifications of the proposed report of proceedings. The motion procedure of the court deciding any objections shall be used in settling the report of proceedings.

(d) Substitute Judge May Settle Report of Proceedings. If the judge before whom the proceedings were held is for any reason unable to promptly settle questions as provided in section (a), another judge may act in the place of the judge before whom the proceedings were held.

(e) Use of Copy of Report of Proceedings. The party who has the right to file the next brief must be given the use of the copy of the report of proceedings. If more than one party has the right to file the next brief, the parties must cooperate in the use of the report of proceedings. When all briefs are filed, the copy of the report of proceedings should be returned to the party who paid for it.

CR 80
Court Reporters
Suggested Rule Change
GR9(d) Cover Sheet

(1) Background. The amendment to CR 80 was initiated by the Video Evaluation Committee. It is part of a series of rule changes proposed by the Committee to set forth appellate procedures to be used when the proceeding on appeal was recorded on videotape.

There are currently 17 superior courts in the state that use video to record trial proceedings. Preparing a transcript from videotapes raises issues not present when a court reporter is involved. If a court reporter records the proceedings, the party can order a transcript from the reporter.

When the proceeding has been recorded on videotape, there are no procedures for how to order a transcript or on who should prepare the transcript. Through a series of rule changes, the Committee is recommending procedures that will ensure an accurate record is produced.

(2) Purpose. This rule allows electronic recording devices to be used to record oral testimony in any civil or criminal proceeding. The proposed change would require all superior courts that elect to use video equipment to record proceedings to comply with courtroom procedures published by the Office of the Administrator for the courts.

The purpose of this change is to require all courts that elect to use video to conform to standards recommended by the Video Evaluation Committee. The standards are necessary to ensure an accurate record of the proceedings is made; the tapes are maintained and stored properly; the tapes are certified; the tapes are available for the attorneys, appellate court, or transcriptionist; reviewers have an accurate and complete log of the activity on each tape; and a simplified tape numbering and citing system is used.

The recommendations for superior and appellate court procedures are detailed in the Committee's report.

(3) Washington State Bar Association Action. None.

(4) Supporting Material. The final report of the Video Evaluation Committee, August, 1992.

(5) Spokesperson. Judge Ray E. Munson, Chair, Video Evaluation Committee.

(6) Hearing. Not recommended.

**Rule 80
COURT REPORTERS**

(a) [Reserved.]

(b) **Electronic Recording.** In any civil or criminal proceedings, electronic or mechanical recording devices approved by the Administrator for the Courts may be used to record oral testimony and other oral proceedings in lieu of or supplementary to causing shorthand notes thereof to be taken. In all matters the use of such devices shall rest within the sole discretion of the court.

(c) **Recording Proceedings in Superior Court by Means of Videotape.** All superior courts that elect to use video equipment to record proceedings shall comply with courtroom procedures published by the Office of the Administrator for the Courts.

Reviser's note: The typographical errors in the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency and appear in the Register pursuant to the requirements of RCW 34.08.040.

**WSR 94-01-025
RULES OF COURT
STATE SUPREME COURT
[December 21, 1993]**

IN THE MATTER OF THE ADOPTION OF AMENDMENT TO GR 12 ORDER NO. 25700-A-540

The Court having approved the adoption of the proposed amendment to GR 12, and having determined that the

proposed amendment will aid in the prompt and orderly administration of justice and further determined that an emergency exists which necessitates an early adoption;

Now, therefore, it is hereby

ORDERED:

(a) That the amendment as attached hereto is adopted.

(b) That pursuant to the emergency provisions of GR 9(i), the amendment will be published expeditiously in the Washington Reports and will become effective upon publication.

DATED at Olympia, Washington this 2nd day of December, 1993.

James A. Andersen

Utter, J.

Smith, J.

Durham, J.

Guy, J.

Brachtenbach, J.

Johnson, J.

Dolliver, J.

Madsen, J.

**GR 12
WASHINGTON STATE BAR ASSOCIATION: PURPOSES
INFORMATIONAL NOTE**

During the 1993 regular legislative session EHB 1152 was passed. That legislation amends RCW 41.56.020 by providing that while recognizing the separation of powers and responsibilities in government, "the legislature strongly encourages the state supreme court to adopt collective bargaining for the employees of the Washington state bar association".

The proposed amendment confers upon the Washington State Bar Association's Board of Governors the authority, in its discretion, to adopt collective bargaining for employees of that association.

**GENERAL RULE 12
WASHINGTON STATE BAR ASSOCIATION: PURPOSES**

(a) **Purposes; In General.** (Unchanged)

(b) **Specific Activities Authorized.** Among the specific Bar Association activities authorized by this rule and the stated purposes are:

(1)—(15) (Unchanged)

(16) Authorizing, in its discretion, collective bargaining for its employees.

(c) **Activities Not Authorized.** (Unchanged)

**WSR 94-01-026
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF ECOLOGY
[Memorandum—December 3, 1993]**

The Washington State Department of Ecology will be conducting a public hearing on January 12, 1994, at the Yakima County Courthouse, 128 North 2nd, Room 420, Yakima, WA, at 7:00 p.m. The purpose of the hearing is to

MISCELLANEOUS

solicit comments on the addition of contingency measures to Yakima PM₁₀ (particulate matter) attainment plan to meet federal state implementation plan (SIP) requirements. The two proposed contingency measures are a woodstove buy back program and a ban on the sale of uncertified woodstoves after January 1, 1995.

Interested persons will be allowed to provide oral comments at the hearings. Written comments are encouraged and will be considered if postmarked no later than January 14, 1994. Comments should be addressed to Cathy Hubbard, Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600. For more information on the contents of this SIP submittal prior to the hearings, please contact Cathy Hubbard at (206) 407-6890.

Ecology is an equal opportunity and affirmative action employer. If you have special accommodation needs, please call Lydia Blalock, (206) 407-6860 (voice) or (206) 407-6206 (TDD).

WSR 94-01-027
NOTICE OF PUBLIC MEETINGS
MARITIME COMMISSION
 [Memorandum—December 3, 1993]

The monthly meetings of the Washington State Maritime Commission will, during 1994, continue to be held at 9:00 a.m. on the first Thursday of each month, commencing January 6, 1994. However, the place of the monthly meetings has been changed and will henceforth be held at the Marine Exchange Conference Center, First Floor, 2701 1st Avenue, Seattle, WA 98121.

In the event the scheduled meeting date may fall on a legal holiday, the meeting will be held on the next week day of that month which is not a holiday, or at such later date as shall have been prescribed by the commission at its previous regular monthly meeting. The commission's annual meeting, for the purpose of electing officers and transacting other business will continue to be on the first Thursday in October.

WSR 94-01-029
NOTICE OF PUBLIC MEETINGS
STATE BOARD OF EDUCATION
 [Memorandum—December 6, 1993]

SCHEDULE OF REGULAR MEETING DATES AND LOCATIONS
1994 CALENDAR YEAR

| | |
|---------------------|--|
| January 13-14, 1994 | Educational Service District 113 Thurston Room 601 McPhee Road S.W. Olympia, WA 98502 (206) 586-2933 |
| March 24-25, 1994 | North Thurston School District Board Room 305 College Street N.E. Lacey, WA 98516 (206) 493-9002 |
| May 19-20, 1994 | Department of Labor and Industries Auditorium 7273 Linderson Way S.W. Olympia, WA 98501 |

| | |
|-----------------------|--|
| July 20-22, 1994 | (206) 956-5800 Snoqualmie Summit Inn Snoqualmie Pass, Washington (206) 434-6300 |
| September 22-23, 1994 | George Washington Bush Middle School 2120 83rd Avenue S.W. Tumwater, WA 98501 |
| November 17-18, 1994 | Location to be announced |

WSR 94-01-031
RULES COORDINATOR
EASTERN WASHINGTON UNIVERSITY
 [Filed December 6, 1993, 11:32 a.m.]

The rules coordinator for Eastern Washington University is Ann M. Kienholz, Rules Coordinator, University Governance System, Eastern Washington University, MS-114, Showalter 302, Cheney, Washington 99004, (509) 359-6299, SCAN (509) 353-6299.

Ann Kienholz

WSR 94-01-037
NOTICE OF PUBLIC MEETINGS
GAMBLING COMMISSION
 [Memorandum—December 3, 1993]

The Gambling Commission will be holding regular meetings on the following dates at the following locations:

| | |
|-------------------|--|
| January 14, 1994 | Spokane Ridpath West 515 Sprague Spokane, WA 99201 |
| February 11, 1994 | Ramada Governor House 621 Capitol Way South Olympia, WA 98501 |
| March 11, 1994 | Nordic Inn 1700 South Boone Street Aberdeen, WA 98502 |
| April 15, 1994 | Embassy Suite Hotel 20610 44th Avenue West Lynnwood, WA 98036 |
| May 13, 1994 | Cypress Inn Highway 167 at 84th Avenue exit Kent, Washington 98032 |
| June 10, 1994 | Whitman Inn/Nendels 107 North Second Street Walla Walla, WA 99362 |
| July 15, 1994 | Silverdale on the Bay 3037 Bucklin Hill Road Silverdale, WA 98310 |
| August 12, 1994 | Campbell's Lodge P.O. Box 278 Chelan, WA 98816 |
| September 9, 1994 | To be determined. |
| October 14, 1994 | To be determined. |

MISCELLANEOUS

November 18, 1994 To be determined.
December 1994 No meeting.

WSR 94-01-043
RULES COORDINATOR
CLOVER PARK
TECHNICAL COLLEGE
[Filed December 7, 1993, 1:02 p.m.]

The rules coordinator for Clover Park Technical College is G. James Capelli, Rules Coordinator, 4500 Steilacoom Boulevard S.W., Tacoma, WA 98499, phone 589-5552, (scan) 221-5552.

Alson E. Green, Jr.
President

WSR 94-01-044
RULES COORDINATOR
WHATCOM COMMUNITY COLLEGE
[Filed December 7, 1993, 1:03 p.m.]

The designated rules coordinator at Whatcom Community College for 1993-94 will be Cliff Baacke, Dean for Administrative Services. The college's address is 237 West Kellogg Road, Bellingham, WA 98226.

Harold Heiner
President

WSR 94-01-045
NOTICE OF PUBLIC MEETINGS
BATES TECHNICAL COLLEGE
[Memorandum—December 1, 1993]

The board of trustees for Bates Technical College will be holding regular meetings on the following dates in 1994:

- January 19, 1994
- February 16, 1994
- March 16, 1994
- April 20, 1994
- May 18, 1994
- June 15, 1994
- July 20, 1994
- September 21, 1994
- October 19, 1994
- November 16, 1994
- December 21, 1994

All meetings will be held at Bates Technical College, 1101 South Yakima Avenue, Tacoma, WA 98405 in the Clyde Hupp Board Room and will commence at 3:00 p.m.

WSR 94-01-050
NOTICE OF PUBLIC MEETINGS
COMMISSION ON
JUDICIAL CONDUCT
[Memorandum—December 6, 1993]

Business Meeting Schedule for 1994

| | | |
|-------------------|---|------------|
| January 7, 1994 | No meeting - canceled | |
| February 4, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| March 4, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| April 1, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| May 6, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| June 3, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| July 1994 | No meeting | |
| August 5, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| September 2, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| October 7, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| November 4, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |
| December 2, 1994 | Holiday Inn 17338 Pacific Highway South Seattle, WA 98188 | 11:00 a.m. |

WSR 94-01-051
NOTICE OF PUBLIC MEETINGS
COMMISSION ON
JUDICIAL CONDUCT
[Memorandum—December 6, 1993]

The Commission on Judicial Conduct, at their last meeting, canceled the January 7, 1994, business meeting previously scheduled for 11:00 a.m. at the Sea-Tac Holiday Inn, 17338 Pacific Highway South, Seattle, WA 98188. The commission's next business meeting will be held on February 4, 1994, at the above-referenced location.

WSR 94-01-052
NOTICE OF PUBLIC MEETINGS
LAKE WASHINGTON
TECHNICAL COLLEGE
[Memorandum—December 8, 1993]

The regular meetings of this college's board of trustees during 1994 will be held at 7:30 a.m. on even-numbered

MISCELLANEOUS

months; and at 6:30 p.m. on odd-numbered months, at Lake Washington Technical College, 11605 132nd Avenue N.E., Kirkland, WA 98034, in the Board Room W305.

The above-referenced meeting time and location is consistent with the information provided at WAC 242-02-074 (1)(b).

Wm H. Nielsen
Board Member

WSR 94-01-053
NOTICE OF PUBLIC MEETINGS
RULES COORDINATOR
CENTRAL PUGET SOUND
GROWTH PLANNING HEARINGS BOARD

[Filed December 8, 1993, 10:42 a.m.]

The Central Puget Sound Growth Planning Hearings Board will continue to hold its regular meetings during 1994 at 10:00 a.m. on the second Thursday of each month at the board's Seattle office: 2329 One Union Square, 600 University Street, Seattle, WA 98101-1129.

The above-referenced meeting time and location is consistent with the information provided at WAC 242-02-074 (1)(c).

Pursuant to RCW 34.05.312, M. Peter Philley remains the designated rules coordinator for the three joint growth planning hearings boards of the state of Washington. Correspondence to the rules coordinator should be sent to the Central Puget Sound Growth Planning Hearings Board address: Central Puget Sound Growth Planning Hearings Board, 2329 One Union Square, 600 University Street, Seattle, WA 98101-1129, (206) 389-2625.

M. Peter Philley

WSR 94-01-061
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF ECOLOGY

[Memorandum—December 8, 1993]

RESOURCE DAMAGE ASSESSMENT COMMITTEE

Pursuant to WAC 173-183-230 through 173-183-260 and 173-183-820 through 173-183-870, the regular meetings of the Washington State Resource Damage Assessment Committee during January 1994 through June 1994 will be held on the second Wednesday of each month, commencing at 9:00 a.m. The meetings will be held in Room 1S-17 at the Department of Ecology Headquarters Building, located at 300 Desmond Drive in Lacey, Washington. For more information, contact Paul Heimowitz at (206) 407-6972.

WSR 94-01-067
NOTICE OF PUBLIC MEETINGS
GROWTH PLANNING
HEARINGS BOARD

[Memorandum—December 7, 1993]

Pursuant to RCW 42.30.075, the Code Reviser's Office is notified that the Western Washington Growth Planning Hearings Board will continue to hold its regular meetings during 1994 at 11:15 a.m. every Wednesday of each month in the Olympia office: McCleary Mansion, 111 West 21st Avenue, Suite #1, Olympia, WA 98504-0953.

WSR 94-01-068
NOTICE OF PUBLIC MEETINGS
CONVENTION AND TRADE
CENTER

[Memorandum—December 8, 1993]

A regular meeting of the board of directors of the Washington State Convention and Trade Center will be held on Wednesday, December 15, 1993, at 1:30 p.m. in Room 310 of the Convention Center, 800 Convention Place, Seattle.

If you have any questions regarding this meeting, please call 447-5000.

WSR 94-01-070
RULES COORDINATOR
HEALTH SERVICES COMMISSION

[Filed December 9, 1993, 2:03 p.m.]

The Health Services Commission, a new state agency, was established under E2SSB 5304, "The Washington Health Services Act of 1993." Leslie Thorpe will serve as rules coordinator for the Health Services Commission.

As required by RCW 34.05.325, I am submitting her name, office, and mailing address for publication in the Washington State Register: Leslie Thorpe, External Affairs Coordinator, Washington Health Services Commission, P.O. Box 41185, Olympia, WA 98504-1185.

If you have any questions or need more information, please call Leslie directly at (206) 407-0047.

Bernadene Dochnahl
Commission Chair

WSR 94-01-071
RULES COORDINATOR
EVERETT COMMUNITY COLLEGE

[Filed December 9, 1993, 2:06 p.m.]

This notification designates Juli Boyington as the Everett Community College rules coordinator. Ms. Boyington's work phone number is (206) 388-9202 or SCAN 474-9202.

Materials and correspondence should be addressed to: Juli Boyington, Everett Community College, 801 Wetmore Avenue, Everett, WA 98201-1327.

Susan Carroll
President

WSR 94-01-072
RULES COORDINATOR
THE EVERGREEN STATE COLLEGE

[Filed December 9, 1993, 2:07 p.m.]

Lee Hoemann has been designated to act as rules coordinator for The Evergreen State College. Her address and telephone number are: Lee Hoemann, Assistant to the President, The Evergreen State College, Library Building, Room 3103, Olympia, Washington 98505, TA-00, (206) 866-6000, extension -6116 or -6100.

Jane L. Jervis
 President

WSR 94-01-077
NOTICE OF PUBLIC MEETINGS
EASTERN WASHINGTON GROWTH
PLANNING HEARINGS BOARD

[Memorandum—December 8, 1993]

The Eastern Washington Growth Planning Hearings Board will continue to hold its regular meetings during 1994 at 10:30 a.m. every Tuesday of each month in the Yakima office: Suite 818 Larson Building, 6 South Second Street, Yakima, WA 98901-2629.

The above referenced meeting time and location is consistent with the information provided at WAC 242-02-074 (1)(a).

WSR 94-01-078
NOTICE OF PUBLIC MEETINGS
WORKFORCE TRAINING AND
EDUCATION COORDINATING BOARD

[Memorandum—December 10, 1993]

INTERNATIONAL ASSOCIATION OF
 MACHINISTS AND AEROSPACE WORKERS
 DISTRICT LODGE 751
 9125 15TH PLACE SOUTH
 SEATTLE, WASHINGTON

January 4, Doubletree Suites, 6:00 p.m., the Workforce Training and Education Coordinating Board (WTECB) will meet for dinner to discuss the planning session goals.

January 5, District Lodge 751, Main Office Building, 2nd Floor Conference Room, 8:00 a.m. - 4:00 p.m., board members will hold an executive session for the purpose of reviewing the performance of a public employee from 8:00 to 9:00 a.m. After the executive session, board members will meet to review work of the previous year, discuss expectations, and set goals for the upcoming year.

WSR 94-01-085
NOTICE OF PUBLIC MEETINGS
SEATTLE COMMUNITY COLLEGES

[Memorandum—December 9, 1993]

The Seattle Community College District board of trustees will hold a board retreat on Monday, December 13, 1993, beginning at 7:30 a.m. The retreat will be held at the

Battelle Conference Center, in the Northwest Room, 4000 N.E. 41st Street, Seattle, WA 98105.

WSR 94-01-086
NOTICE OF PUBLIC MEETINGS
EDMONDS COMMUNITY COLLEGE

[Memorandum—December 13, 1993]

Board of Trustees Meeting
 December 16, 1993
 Sno-King Room 103
 (4:30 - 6:35)

The facilities for this meeting are free of mobility barriers and interpreters for deaf individuals and braille or taped information for blind individuals will be provided upon request when adequate notice is given.

WSR 94-01-092
NOTICE OF PUBLIC MEETINGS
THE EVERGREEN STATE COLLEGE

[Memorandum—December 7, 1993]

The board of trustees of The Evergreen State College will hold regular meetings on the following dates in 1993 [1994] (second Wednesday of each month):

January 12
 February 9
 March 9
 April 13
 May 11
 June 8
 July 13
 August 10
 September 14
 October 12
 November 9
 December 14

It is likely that the board will adopt an every-other-month meeting schedule with meetings held in January, March, May, July, September, and November. In either case, the college will provide advance notification of board meeting dates to the media and to the campus.

All meetings will be held in Room 3112 of the Daniel J. Evans Library Building on The Evergreen State College campus in Olympia, Washington, unless otherwise specified by notice in advance of a meeting in an alternate location.

WSR 94-01-093
NOTICE OF PUBLIC MEETINGS
COUNCIL ON
VOCATIONAL-TECHNICAL EDUCATION

[Memorandum—December 14, 1993]

December 16, 1993
 Board Room B
 Wyndham Garden Hotel
 18118 Pacific Highway South

Seattle, WA
(12:00 noon - 6:30 p.m.)

Mary J. Yadon
Financial Manager

12:30 p.m., the council will hold an executive session for reviewing and interviewing candidates for the position of executive director.

6:00 p.m., the council will take action based on the results of the executive session.

The meeting site is barrier free. People needing special accommodations should contact the council office at (206) 753-3715.

WSR 94-01-098
NOTICE OF PUBLIC MEETINGS
UNIVERSITY OF WASHINGTON
[Memorandum—December 14, 1993]

In accordance with RCW 42.30.075, 28B.20.105, 28B.20.130, and WAC 478-04-030, the board of regents of the University of Washington established the following meeting schedule for 1994 at its regular meeting held December 10, 1993.

| Day | Date |
|--------|----------------------------------|
| Friday | January 21 |
| Friday | February 18 |
| Friday | March 18 |
| Friday | April 22 |
| Friday | May 20 |
| Friday | June 10 |
| Friday | July 15 |
| Friday | August 19 |
| Friday | September 16 |
| Friday | October 21 |
| Friday | November 18 (in <u>Spokane</u>) |
| Friday | December 16 |

The meetings will commence at 1:00 p.m. unless public notice is given to the contrary. The meetings will be held in Room 301 Administration Building on the University of Washington main campus, Seattle, Washington, unless another location is established and public notice given in accordance with chapter 42.30 RCW.

To request disability accommodations, contact the Office of the ADA Coordinator, at least ten days in advance of the event. 543-6450 (voice); 543-6452 (TDD); 685-3885 (FAX); access @u.washington.edu (E-mail).

WSR 94-01-099
RULES COORDINATOR
ARTS COMMISSION
[Filed December 15, 1993, 3:08 p.m.]

The Washington State Arts Commission is designating Karen Kamara Gose, our acting executive director as the rules coordinator for our agency. The agency's mailing address is as follows: Washington State Arts Commission, P.O. Box 42674 [42675], Olympia, WA 98504-2675.

WSR 94-01-105
RULES COORDINATOR
CENTRAL WASHINGTON UNIVERSITY
[Filed December 16, 1993, 11:18 a.m.]

The rules coordinator for Central Washington University is Judy B. Miller, Administrative Assistant, President's Office, Central Washington University, 400 East 8th Avenue, Ellensburg, WA 98926-7502, (509) 963-2111 comm, 453-2111 scan.

Ivory V. Nelson
President

WSR 94-01-106
NOTICE OF PUBLIC MEETINGS
YAKIMA VALLEY
COMMUNITY COLLEGE
[Memorandum—December 2, 1993]

The board of trustees for Yakima Valley Community College District 16 shall continue to hold regular meetings the first Thursday of each month at 4:30 p.m. Meetings will be held in the College Boardroom, Prior Hall, Room 100, unless otherwise posted.

WSR 94-01-107
RULES COORDINATOR
SEATTLE COMMUNITY COLLEGES
[Filed December 16, 1993, 11:20 a.m.]

The rules coordinator for the Seattle Community College District VI is: Mr. James E. Christiansen, Vice Chancellor, Business and Finance, Seattle Community College District VI, 1500 Harvard, Seattle, WA 98122, phone (206) 587-4160, SCAN 432-4160.

James E. Christiansen
Vice Chancellor
Business and Finance

WSR 94-01-110
NOTICE OF PUBLIC MEETINGS
OFFICE OF MARINE SAFETY
[Memorandum—December 15, 1993]

This is to advise you of the following meetings scheduled for the regional marine safety committees:

Southern Puget Sound Regional Marine Safety Committee
Thursday, January 6, 1994, 8:00 a.m.
World Trade Center
Port of Tacoma
3600 Port of Tacoma Road
Tacoma, WA

MISCELLANEOUS

Grays Harbor/Pacific Coast Regional Marine Safety Committee

Tuesday, January 18, 1994, 11:30 a.m.
 Port of Grays Harbor
 Port Commission Room
 111 Wooding Street
 Aberdeen, WA

Oregon/Washington Oil Spill and Marine Safety Committee

Wednesday, January 26, 1994, 10:00 a.m.
 Two World Trade Center
 Mezzanine Level, Rooms 3 and 4
 26 S.W. Salmon
 Portland, OR

For more information about these meetings, please contact Jeff Fishel at (206) 664-9124.

WSR 94-01-111

**NOTICE OF PUBLIC MEETINGS
 DEPARTMENT OF LICENSING**
 [Memorandum—December 14, 1993]

Title and Registration Advisory Committee (TRAC)

Date: January 25, 1994
 Time: 1:30 p.m. to 3:30 p.m.
 Place: General Administration Auditorium
 General Administration Building
 210 11th Avenue S.W.
 Olympia, WA

WSR 94-01-119

**NOTICE OF PUBLIC MEETINGS
 HUMAN RIGHTS COMMISSION**
 [Memorandum—December 17, 1993]

The Washington State Human Rights Commission has scheduled its meetings for 1994 as follows. A work session for the commissioners and required staff will be held the evening prior to each meeting, except for the March meeting.

| DATE | LOCATION |
|--------------|-------------------------------------|
| January 27 | Seattle |
| February 24 | Olympia |
| March 24 | Olympia |
| April 28 | Richland |
| May 26 | Olympia - Telephone conference call |
| June 23 | Vancouver |
| July 28 | Bellingham |
| August 25 | Olympia - Telephone conference call |
| September 22 | Yakima |
| October 27 | Spokane |
| November 18 | Silverdale |
| December 15 | Olympia - Telephone conference call |

WSR 94-01-120

**NOTICE OF PUBLIC MEETINGS
 HUMAN RIGHTS COMMISSION**
 [Memorandum—December 17, 1993]

The Washington State Human Rights Commission will hold its January regular commission meeting in Seattle, Washington on January 26 and 27, 1994. The meeting on January 26, will be an evening business meeting held at the Library for the Blind and Physically Handicapped, Meeting Room, 821 Lenora, Seattle. The regular business meeting on January 27, will be held at the same location beginning at 9:00 a.m.

WSR 94-01-121

**NOTICE OF PUBLIC MEETINGS
 WASHINGTON STATE UNIVERSITY**
 [Memorandum— December 15, 1993]

Board of Regents Meeting Dates for 1994

| | |
|-------------------|---------------------------|
| January 21, 1994 | Pullman |
| March 4, 1994 | Pullman |
| May 6, 1994 | Pullman |
| June 24, 1994 | Location to be determined |
| August 26, 1994 | Pullman |
| October 14, 1994 | Pullman |
| November 18, 1994 | Spokane |
| December 16, 1994 | Pullman |

WSR 94-01-122

**NOTICE OF PUBLIC MEETINGS
 OLYMPIC COLLEGE**
 [Memorandum—December 15, 1993]

The board of trustees has cancelled the regular board meeting that was scheduled to be held on December 28, 1993, at 7:30 p.m. in the Board Room at Olympic College, District No. 3, Bremerton, Washington.

WSR 94-01-123

**NOTICE OF PUBLIC MEETINGS
 OLYMPIC COLLEGE**
 [Memorandum—December 15, 1993]

One regular meeting of the board of trustees shall be held each month. This meeting shall be held on the fourth Tuesday of each month and begin at 7:30 p.m. in the Board Room College Service Center, Olympic College, 1600 Chester Avenue, Bremerton, WA, or at such other time and place as the board may direct from time to time and as published in the state Register. The location of each meeting is available in the Office of the President, Olympic College, 1600 Chester Avenue, Bremerton, WA. The chairman of the board, with the concurrence of a majority of the members of the board, may cancel any regular meeting. All such regular meetings will be conducted in conformance with the laws of the state of Washington governing such meetings.

MISCELLANEOUS

The regular meeting date schedule for 1994, which needs to be published in the state register for Olympic College, is as follows:

- January 25
- February 22
- March 22
- April 26
- May 24
- June 28
- July 26
- August 23
- September 27
- October 25
- November 22
- December 27

WSR 94-01-128
NOTICE OF PUBLIC MEETINGS
SKAGIT VALLEY COLLEGE
 [Memorandum—December 16, 1993]

The board of trustees of Skagit Valley College, Community College District No. 4, will hold its regular meetings at 5:00 p.m. on the second Monday of each month in 1994, except for the month of April when the meeting will be held at 7:15 p.m. on Tuesday, April 12, at the Whidbey Campus, and except for the month of August when there is no meeting. All of these meetings will be held in the Campus Center Annex Board Room on the Mount Vernon Campus, except the April meeting which will be held at the Whidbey Campus, 1201 East Pioneer Way, Oak Harbor, WA.

The dates of the regular meetings are:

- January 10
- February 14
- March 14
- April 12
- May 9
- June 13
- July 11
- September 12
- October 10
- November 14
- December 12

WSR 94-01-129
NOTICE OF PUBLIC MEETINGS
TACOMA COMMUNITY COLLEGE
 [Memorandum—December 15, 1993]

The 1994 meeting schedule for the board of trustees of Tacoma Community College District 22 is as follows:

- January 13, 1994
- February 10, 1994
- March 10, 1994
- April 14, 1994
- May 12, 1994
- June 16, 1994

- July 14, 1994
- August 11, 1994
- September 8, 1994
- October 13, 1994
- November 10, 1994
- December 8, 1994

All regularly scheduled meetings of the board will be held at 4:00 p.m. in the Baker Room, Learning Resource Center (Building 7), Tacoma, Washington.

WSR 94-01-130
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF AGRICULTURE
 (Asparagus Commission)
 [Memorandum—December 16, 1993]

As per required by RCW 42.30.075, the Washington Asparagus Commission wishes to file for publication in the Washington State Register, the following schedule of regular meetings:

- | | |
|--|--|
| Tuesday, January 18, 1994 1:00 p.m. | Red Lion Inn 2525 North 20th Pasco, WA 99301 |
| Tuesday, April 19, 1994 1:00 p.m. | American Fine Foods 516 West Rose Walla Walla, WA 99362 |
| Tuesday, July 19, 1994 1:00 p.m. | Washington Asparagus Commission Office 2810 West Clearwater Kennewick, WA 99336 |
| Tuesday, October 18, 1994 | Sue's Pioneer Kitchen 227 South Toppenish Toppenish, WA 98948 |

WSR 94-01-131
NOTICE OF PUBLIC MEETINGS
SEATTLE COMMUNITY COLLEGES
 [Memorandum—December 20, 1993]

Board of Trustees
1994 Schedule

Regular board of trustees meetings for the Seattle Community College District are to begin at 6:00 p.m. on the first Tuesday of each month, except for January 1994 as indicated.

- | Date | Place |
|------------|---|
| January 11 | Seattle Central Community College 1701 Broadway Seattle, WA 98122 |
| February 1 | South Seattle Community College 6000 16th Avenue Southwest Seattle, WA 98106-1499 |

MISCELLANEOUS

| | |
|-------------|---|
| March 1 | Seattle Community College District Siegal Center 1500 Harvard Avenue Seattle, WA 98122 |
| April 5 | Seattle Vocational Institute 315 22nd Avenue South Seattle, 98144 |
| May 3 | North Seattle Community College 9600 College Way North Seattle, WA 98103 |
| June 7 | Seattle Central Community College |
| July 5 | South Seattle Community College |
| August 2 | NO MEETING |
| September 6 | Seattle Community College District Siegal Center |
| October 4 | Seattle Vocational Institute |
| November 1 | North Seattle Community College |
| December 6 | Seattle Central Community College |

WSR 94-01-135
NOTICE OF PUBLIC MEETINGS
PUBLIC WORKS BOARD
 [Memorandum—December 17, 1993]

The Public Works Board regular meeting scheduled for 8:30 a.m., January 4, 1994, in the city of SeaTac has been canceled.

The next scheduled meeting will be at 8:30 a.m., February 1, 1994, in the city of SeaTac.

WSR 94-01-143
NOTICE OF PUBLIC MEETINGS
TRANSPORTATION COMMISSION
 [Memorandum—December 20, 1993]

The January 1994 Washington State Transportation Commission meetings previously scheduled for January 19 and 20 have been rescheduled for 1:00 p.m. on Monday, January 24, and 9:00 a.m. on Tuesday, January 25, 1994, in the Transportation Commission Room (1D2), Transportation Building, Olympia, Washington. There will be committee meetings at 9:00 a.m., Monday, January 24, in the Transportation Building, Rooms 1D2 and 1D22, Olympia, Washington.

The February 1994 Washington State Transportation Commission meetings will be held at 1:00 p.m. on Tuesday, February 22, and 9:00 a.m. on Wednesday, February 23, 1994, in the Transportation Commission Room (1D2), Transportation Building, Olympia, Washington. There will be committee meetings at 9:00 a.m., Tuesday, February 22, in the Transportation Building, Rooms 1D2 and 3F22, Olympia, Washington.

WSR 94-01-133
NOTICE OF PUBLIC MEETINGS
DEPARTMENT OF
NATURAL RESOURCES
 (Forest Practices Board)
 [Memorandum—December 20, 1993]

Per WAC 222-08-040, the Forest Practices Board will hold regular meetings on:

- February 9, 1994
- May 11, 1994
- August 10, 1994
- November 9, 1994

The board has also scheduled special meetings in 1994. this schedule is tentative and is subject to change. The dates being held are:

- January 18 and 19, 1994
- March 10, 1994
- April 14, 1994
- June 8, 1994
- July 13, 1994
- September 14, 1994
- October 12, 1994
- December 14, 1994

Most of these meetings will be held in Conference Room 172 of the Natural Resources Building in Olympia. Notice of other meeting locations will be published in the Register.

For more information on regular and/or special meetings, call the Forest Practices Board recording secretary at (206) 902-1413, or write:

Forest Practices Board Recording Secretary
 c/o DNR Forest Practices Division
 P.O. Box 47012
 Olympia, WA 98504-7012

WSR 94-01-144
ATTORNEY GENERAL OPINION
Cite as: AGO 1993 No. 18
 [December 9, 1993]

COLLEGES AND UNIVERSITIES—CONTRACTS—CORPORATIONS—EMPLOYERS AND EMPLOYEES—SALARIES AND WAGES—GIFTS—INVESTMENTS—Relationship between universities and nonprofit organizations that engage in fund-raising activities for them

1. Institutions of higher education have the authority to enter into contracts deemed essential to the institution and to accept and solicit gifts. If there is consideration flowing to the institution, it has the authority to provide goods and services to a private nonprofit organization, including the use of institution employees to solicit gifts, in exchange for fund-raising and other assistance from the organization.
2. The statute of frauds, RCW 19.36.010, provides that any agreement not to be performed in one year from the making thereof shall be void. Thus, any agreement between an institution of higher education and a nonprofit organization should be in writing if it is not to be performed in one year.

MISCELLANEOUS

3. If employees of an institution of higher education solicit gifts pursuant to an agreement between the institution and a nonprofit organization, the gifts become the property of the nonprofit organization if that is the intent of the donor.
4. An institution of higher education cannot provide state employee benefits to employees of a private nonprofit organization that is not an agency of the state. Employees of such institutions who perform services for a nonprofit organization, pursuant to an agreement between the institution and the organization, remain state employees entitled to state employee benefits.
5. A gift to an institution of higher education, that is not designated for a specific fund, need not be deposited in the state general fund. The Legislature has given these institutions authority to determine how private donations shall be used so long as that use is consistent with the intent of the donor.
6. Funds donated to an institution of higher education are subject to the Uniform Management of Institutional Funds Act, chapter 24.44 RCW. Unless prohibited by the intent of the donor, RCW 24.44.030(3) provides that funds donated to an institution may be pooled with the funds or other investors. This would include funds donated to a private nonprofit organization.
7. If a donor makes a gift to an institution of higher education, the ownership of the gift may not be subsequently transferred to a private nonprofit organization. Such a transfer would be contrary to the intent of the donor.

Requested by:

Honorable Brian Sonntag
 State Auditor
 Legislative Building, MS 40021
 Olympia, Washington 98504-0021

WSR 94-01-145
ATTORNEY GENERAL OPINION
Cite as: AGO 1993 No. 19
 [December 15, 1993]

COLLEGES AND UNIVERSITIES—PUBLIC WORKS AND IMPROVEMENTS—CONTRACTS—APPRENTICESHIPS—
 Authority of a university to impose a bidding prequalification requirement that contractors must have an apprenticeship program.

A prequalification requirement prohibits a contractor from bidding on a public works contract unless the requirement is satisfied. There is no statute that establishes a prequalification requirement that contractors must have an apprenticeship program. In absence of such a statute, a university does not have the authority to establish such a prequalification requirement.

Requested by:

Honorable Bob McCaslin
 State Senator, District 4
 105 Institutions Building, MS 40404
 Olympia, WA 98504-0404

WSR 94-01-148
NOTICE OF PUBLIC MEETINGS
PARKS AND RECREATION
COMMISSION
 [Memorandum—December 17, 1993]

The following is the schedule for the 1994 regular meetings of the Washington State Parks and Recreation Commission.

| DATE | LOCATION |
|-------------|------------|
| January 28 | Spokane |
| March 11 | Olympia |
| April 22 | Wenatchee |
| June 10 | Yakima |
| July 22 | Bellingham |
| September 9 | Olympia |
| October 21 | Olympia |
| December 2 | Seattle |

All commission meetings will begin at 9:00 a.m. on the day scheduled. The exact locations are yet to be determined, except for the January meeting, which will be held at Cavanaugh's Inn at the Park, West 303 North River Drive, Spokane.

Locations of the next regular meeting will be announced at the close of each regular meeting and may also be obtained thereafter by writing to the Director, Washington State Parks and Recreation Commission, P.O. Box 42650, Olympia, WA 98054-2650 or by calling (206) 753-5758.

In accordance with Executive Order 83-19, meeting sites will be selected which are barrier free to the greatest extent feasible. Braille or taped agenda items for the visually impaired and interpreters for those with hearing impairments will be provided if requested with adequate notice. Such requests should usually be made at least 10 working days in advance of the scheduled meeting date and should be sent to the state parks address in the above paragraph.

WSR 94-01-160
RULES COORDINATOR
DEPARTMENT OF PERSONNEL
 [Filed December 21, 1993, 2:18 p.m.]

We have recently had a change in the rules coordinator position in the Department of Personnel. The following person is designated as rules coordinator for the department: Sandy Brownrigg, Department of Personnel, Higher Education Unit, Mailstop 47500, Olympia, Washington 98504-7400 [98504-7500], (206) 753-0381 or SCAN 234-0381.

Dennis Karras
 Director

MISCELLANEOUS

**WSR 94-01-170
DEPARTMENT OF ECOLOGY**

[Filed December 21, 1993, 4:28 p.m.]

Shown below is ecology's annual rule plan for 1994. This plan includes rules that are being amended (improved by making changes to an existing rule), rules that are being adopted (new rules that do not yet exist), and rules that are being repealed (removed from the books).

This document is an estimation of rule activity in the Department of Ecology in 1994. Timelines are approximated. All rules listed in this plan should have some activity in 1994. However, rule development for some of the rules began in 1993 or before.

The following definitions will help you better understand the enclosed information:

Estimated Initiation Date - refers to the month or year the

rule development plan was begun or will begin

Estimated Proposal - refers to formal rule proposal filed with the Code Reviser

Estimated Adoption - refers to adoption of the rule by the agency director and filing of the rule with the Code Reviser

An annual rule plan will be available from the Department of Ecology in December of each year and will be updated quarterly. For up-to-date information regarding a particular rule, please contact the person listed. For general information regarding rule development in the Department of Ecology, please contact the rules coordinator at (206) 407-6161.

MISCELLANEOUS

**DEPARTMENT OF ECOLOGY
ANNUAL RULE PLAN FOR 1994**

| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|--|--|---------------------------|---|--|---|
| AIR | | | | | |
| Amend Motor Vehicle Emission Inspection Chapter 173-422 WAC | Establishes state authority to implement several federal requirements (\$450 waiver, etc.) (Phase III) | 1993 | September 1993 | February 1994 | John Raymond 407-6856 |
| Amend Motor Vehicle Emission Inspection Chapter 173-422 WAC | Revisions to clarify and improve emission reduction effectiveness where needed to meet air quality objectives (Phase IV). | 1994 | May 1994 | October 1994 | John Raymond 407-6856 |
| Amend Air Operating Permit Chapter 173-401 WAC | To establish state's process for determining and assessing fees supporting the air operating permit program. (Phase II). To simplify permits by identifying insignificant emissions and determining need for inclusion in permits. (Phase III). | Phase II and III - 1993 | Phase II August 1993 Phase III December 1993 | Phase II December 1993 Phase III April 1994 | Catherine O'Neill (Phase II) 407-6854 Tony Warfield (Phase III) 407-6892 |
| Amend Controls for New Sources of Toxic Air Pollutants Chapter 173-460 WAC | To clarify rule and incorporate changes to the Clean Air Act. | 1992 | July 1993 | January 1994 | Catherine O'Neill 407-6854 |
| Amend Kraft Pulp Mills Chapter 173-405 WAC | To update regulations and establish reasonably available control technologies (RACT). | 1993 | March 1994 | November 1994 | Dan Clarkson 407-6867 |

MISCELLANEOUS

Miscellaneous

WSR 94-01-170

Washington State Register, Issue 94-01

| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|---|---|---------------------------|--------------------|--------------------|-------------------------------|
| Adopt Use of CFCs and HCFCs Chapter 173-465 WAC | To regulate use and disposal of CFCs and HCFCs. | 1993 | February 1994 | October 1994 | Carol Piening 407-6858 |
| Amend Sulfite Pulping Mills Chapter 173-410 WAC | To update source category reasonably available control technology (RACT) and update regulation and compliance procedures. | 1994 | 1994 | 1995 | Tony Warfield 407-6892 |
| Amend Oxygenated Gasoline Chapter 173-492 WAC | Makes boundary revisions to existing program. | 1993 | November 1993 | March 1994 | Carol Piening (407-6854) |
| Amend General Regulations for Air Pollution Chapter 173-400 WAC | Incorporate federal requirements into state regulations regarding dry cleaning maximum achievable control technologies (MACT). | January 1994 | June 1994 | August 1994 | Catherine O'Neill 407-6854 |
| Amend General Regulations for Air Pollution Chapter 173-400 WAC | To update current regulation and establish source category reasonably available control technology (RACT) requirements for industrial and commercial power boilers. | 1994 | 1994 | 1994 | Audrey O'Brien 407-6875 |
| Amend Conformity of Transportation Activities to Air Quality Implementation Plans Chapter 173-420 WAC | To ensure that federal actions conform to the State Implementation Plan (SIP). | 1994 | December 1994 | April 1995 | Paul Carr 407-6863 |

| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|---|--|---------------------------|--------------------|--------------------|-------------------------------|
| Amend Agricultural Burning Chapter 173-430 WAC | To incorporate changes to the state Clean Air Act. To establish the fees for agricultural burning. To establish best management practices. | 1993 | June 1994 | December 1994 | Melissa McEachron 407-6862 |
| NOISE RULES | | | | | |
| Amend Sound Level Measurement Procedures Chapter 173-58 WAC Watercraft Noise Performance Standards Chapter 173-70 WAC | To make it easier for local jurisdictions to enforce noise regulations. | 1994 | | | Patricia Hervieux 407-6756 |
| OIL SPILLS | | | | | |
| Adopt Facility Oil Handling Operations and Design Standards Facility Oil Handling Operations Manual Chapter 173-180A&B WAC | Requires facilities to provide best achievable protection from spills. | 1993 | December 1993 | June 1994 | Joe Subsits 407-6965 |
| Amend Compensation Table and Pre-Damage Assessment Screening Chapter 173-181 WAC | To incorporate flexibility into process of carrying out damage assessments. | December 1993 | | | Paul Heimowitz 407-6972 |

| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|---|--|---------------------------|--------------------|--------------------|-------------------------------|
| SHORELANDS AND FLOODPLAIN MANAGEMENT | | | | | |
| Amend Administration of the Flood Control Assistance Account Program Chapter 173-145 WAC Flood Plain Management Chapter 173-158 WAC | Anticipated amendments in response to 1994 legislative action. | 1994 | | | Jerry Louthain 407-7281 |
| Amend Shoreline Management Act of 1971 - State Master Program Chapter 173-19 WAC | Amending rule in response to local Shoreline Master Program changes. Local plans for jurisdictions along the ocean coast will also incorporate ocean use guidelines. | | 1994 | 1994 | Linda Whitcher 407-6523 |
| SOLID AND HAZARDOUS WASTE | | | | | |
| Amend Dangerous Waste Regulations Chapter 173-303 WAC | -Section 071: amending exclusion in response to public comment. | 1993 | December 1993 | 1994 | Patricia Hervieux 407-6756 |
| Amend Dangerous Waste Regulations Chapter 173-303 WAC | Section 100: comprehensive evaluation of state only dangerous waste criteria | 1994 | | | Patricia Hervieux 407-6756 |
| Adopt Solid Waste Importation Chapter 173-327 WAC | To allow Ecology to track out-of-state waste being disposed of in Washington | 1993 | February 1994 | July 1994 | Elizabeth Phinney 407-6130 |

| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|---|---|---------------------------|--------------------|--------------------|-----------------------------|
| Adopt Used Oil Chapter 173-354 WAC | To provide clear direction and incentives to aid in the management of used oil. | 1993 | July 1994 | November 1994 | Bill Green 407-6109 |
| Adopt Biosolids Management Chapter 173-308 WAC | To meet federal requirements to receive delegation of biosolids program from EPA. | 1993 | May 1994 | September 1994 | Kyle Dorsey 407-6107 |
| Amend Minimal Functional Standards for Solid Waste Handling Chapter 173-304 WAC | To update rule regarding facility standards for: -woodwaste -inert/demolition -contaminated soil -compost | 1994 | | | Randy Martin 407-6136 |
| Amend Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC | To develop by reference radioactive cleanup standards which are needed to support radioactive and mixed waste cleanup. | 1994 | | | Dru Butler 407-7150 |
| Amend Underground Storage Tanks Chapter 173-360 WAC | To reduce Ecology's role in licensing underground storage tank service providers. | 1993 | | | Wendy Boldender 407-7211 |
| WATER QUALITY | | | | | |
| Repeal Centennial Clean Water Chapter 173-95 WAC | Ecology's grant streamlining efforts will result in changes to the Centennial program. In order to test these improvements and their effects, the existing rule will be repealed. | 1993 | November 1993 | January 1994 | Carrie Berry 407-7443 |

| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|--|---|---|--------------------|---|--|
| Amend Surface Water Quality Standards Chapter 173-201A WAC | -To adopt numeric limits for protection of public health. -Federal rule requires the state to update water quality standards at least once every three years. | Human health criteria - 1993 Triennial review - 1993 | | Human health criteria - 1995 Triennial review - 1996 | Cheryl Niemi (Human health criteria) 407-6440 Marks Hicks (Triennial review) 407-6477 |
| Adopt Dredged Material Sediment Standards Chapter 173-227 WAC | Puget Sound Plan requirement. Consolidates existing rules. Codifies Puget Sound dredging program. Adopts contaminated sediment requirements. (May consolidate this rule with Chapter 173-204 WAC, Sediment Management Standards.) | 1994 | July, 1994 | June, 1995 | Rick Vining 407-6927 |
| Amend Wastewater Discharge Permit Fees Chapter 173-224 WAC | To revise wastewater discharge permit fees to reflect the biennial budget. | 1993 | December 1993 | April 1994 | Sue Patnude 407-6432 |
| Amend Wastewater Discharge Standards and Effluent Limitations Chapter 173-221A WAC | To develop discharge standards for net pens. | 1994 | | June 1995 | Bill Moore 407-6444 |

| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|--|---|---------------------------|---|--|---|
| Amend Sediment Management Standards Chapter 173-204 WAC | Triennial rule review per federal/state requirement. Components: -Human health criteria -Freshwater standards -Net pens (May consolidate this rule with Chapter 173-227 WAC, Dredged Material Sediment Standards.) | 1993 | Human health/ freshwater standards - July 1994 Net pens - February 1994 | Human health criteria - June 1995 Net pens - October 1994 | Laura Weiss (Human health/ freshwater standards) 407-7446 Pam Sparks-McConkey (Net pens) 407-6491 |
| Amend State Waste Discharge Permit Program Chapter 173-216 WAC National Pollutant Discharge Elimination System Chapter 173-220 WAC | To consolidate rules and to exempt certain categories of dischargers from permits, and to establish other permits. | Spring 1994 | | June 1995 | Bill Moore 407-6444 |
| Amend Forest Practices Chapter 173-202 WAC | Minor clarifying revisions to wetlands protection provisions | 1993 | February 1994 | June 1994 | Fred Greef 407-6409 |
| WATER RESOURCES | | | | | |
| Amend Agricultural Water Supply Facilities Chapter 173-170 WAC | To make it easier to fund the trust water rights program. | 1994 | | | George Krill 407-6633 |
| Adopt a rule regarding instream flows/hydraulic continuity | To set direction for setting flows in streams/rivers and to address ground water connected with surface water. | 1994 | April 1994 | | Cynthia Nelson 407-6637 Brian Walsh 407-6646 |

[27]

Miscellaneous

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| ANTICIPATED RULE DEVELOPMENT | PURPOSE | ESTIMATED INITIATION DATE | ESTIMATED PROPOSAL | ESTIMATED ADOPTION | CONTACT |
|---|--|---------------------------|--------------------|--------------------|---------------------------|
| Amend Instream Resources Protection Program for the Main Stem of the Columbia River Chapter 173-563 WAC Water Resources Management Program for the Main Stem of the Snake River in Washington State Chapter 173-564 WAC | To regulate water rights and instream flows in the mainstem Columbia and Snake rivers. | 1994 | | | Thom Lufkin 407-6631 |
| Amend Instream Resources Protection Program Snohomish River Basin Chapter 173-507 WAC | To examine and possibly establish different flows than those currently in place. | 1993 | | | Jeff Marti 407-6636 |
| Amend Water Resources Program in the Methow River Basin Chapter 173-548 WAC | To manage water resources of the area. | 1994 | | | Doug Rushton 407-6642 |
| Adopt a rule regarding water resource management in the Dungeness-Quilcene Basin | To manage water resources of the area. | 1994 | | | Doug Rushton 407-6642 |
| WELL DRILLING | | | | | |
| Amend Minimum Standards of Well Construction Maintenance of Water Wells Chapter 173-160 WAC | To review and update construction standards as directed by legislature. | 1994 | | | Dick Szymarek 407-6648 |
| Amend Regulation and Licensing of Water Well Contractors and Operators Chapter 173-162 WAC | To review and update licensing standards as directed by legislature. | 1994 | | | Dick Szymarek 407-6648 |

WSR 94-01-182
NOTICE OF PUBLIC MEETINGS
MULTIMODAL TRANSPORTATION
PROGRAMS AND PROJECTS
SELECTION COMMITTEE
 [Memorandum—December 17, 1993]

This is to formerly advise you of the Multimodal Transportation Programs and Projects Selection Committee meetings which are scheduled for 1994 to be included in the state Register.

The meetings will be held from 9:00 a.m. to 3:00 p.m. at the following locations and dates:

| | |
|-------------------|--------------------------|
| January 21, 1994 | Seattle Airport Hilton |
| February 18, 1994 | West Coast Sea-Tac Hotel |
| April 15, 1994 | Seattle Airport Hilton |
| July 15, 1994 | West Coast Sea-Tac Hotel |
| October 21, 1994 | Seattle Airport Hilton |

WSR 94-01-183
RULES COORDINATOR
DEPARTMENT OF
TRADE AND ECONOMIC DEVELOPMENT
 [Filed December 22, 1993, 9:32 a.m.]

The Department of Trade and Economic Development's new rules coordinator will be Robin Pollard, P.O. Box 42516, (206) 586-4848, SCAN 321-4848.

Tom Campbell
 Deputy Director

WSR 94-01-184
NOTICE OF PUBLIC MEETINGS
WHATCOM COMMUNITY COLLEGE
 [Memorandum—December 22, 1993]

1994 Meeting Schedule of the Board of Trustees
 Second Tuesday of the Month at 2:00 p.m.
 Board Room in the Laidlaw Center

Whatcom Community College
 237 West Kellogg Road
 Bellingham, WA 98226

- January 11
- February 8
- March 8
- April 12
- May 10
- June 14
- July 12
- August 9 (no meeting)
- September 13
- October 11
- November 8
- December 13

WSR 94-01-185
NOTICE OF PUBLIC MEETINGS
PENINSULA COLLEGE
 [Memorandum—December 20, 1993]

Board of Trustees
 Community College District No. 1
 Peninsula College

1994 Meeting Schedule

| Date | Time | Location |
|--------------------|--|---|
| January 11, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| February 8, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| March 8, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| April 12, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Clallam Bay |
| May 10, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| June 14, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| July - no meeting | | |
| August 9, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Neah Bay High School-library, Neah Bay |
| September 13, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| October 11, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| November 8, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |
| December 13, 1994 | 10:30 a.m.-executive session 1:00 p.m.-open session | Peninsula College, Port Angeles (room A-12) |

WSR 94-01-189
ATTORNEY GENERAL'S OPINION
 [Filed December 22, 1993, 10:21 a.m.]

NOTICE OF REQUEST FOR ATTORNEY GENERAL'S OPINION
 WASHINGTON ATTORNEY GENERAL

The Washington Attorney General issues formal published opinions in response to requests by the heads of state agencies, state legislators, and county prosecuting attorneys. When it appears that individuals outside the Attorney General's Office have information or expertise that will assist in the preparation of a particular opinion, a summary of that opinion request will be published in the state register. If you are interested in commenting on a request listed in this volume of the register, you should notify the Attorney General's Office of your interest by January 19, 1994. This is not the due date by which comments must be received. However, if you do not notify the Attorney General's Office of your interest in commenting on an opinion request by January 19, 1994, the opinion may be issued before your comments have been received. You may notify the Attorney General's Office of your intention to comment by calling (206) 753-4114, or by writing to the Solicitor General, Office of the Attorney General, 905 Plum Street, P.O. Box 40100, Olympia, WA 98504-0100. When you notify the office of your intention to comment, you will be provided

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with a copy of the opinion request in which you are interested; information about the Attorney General's Opinion process; information on how to submit your comments; and a due date by which your comments must be received to ensure that they are fully considered.

The Attorney General's Office seeks public input on the following opinion requests.

93-11-9 Request by Senator Betti Sheldon

Question regarding the definition of "insurance benefit allocation" in RCW 28A.400.200.

Table of WAC Sections Affected

KEY TO TABLE

This table covers the current calendar year through this issue of the Register and should be used to locate rules amended, adopted, or repealed subsequent to the publication date of the latest WAC or Supplement.

Symbols:

- AMD = Amendment of existing section
- A/R = Amending and recodifying a section
- DECOD = Decodification of an existing section
- NEW = New section not previously codified
- OBJEC = Notice of objection by Joint Administrative Rules Review Committee
- PREP = Preproposal comments
- RE-AD = Readoption of existing section
- RECOD = Recodification of previously codified section
- REP = Repeal of existing section
- RESCIND = Rescind previous emergency rule
- REVIEW = Review of previously adopted rule

Suffixes:

- P = Proposed action
- C = Continuance of previous proposal
- E = Emergency action
- S = Supplemental notice
- W = Withdrawal of proposed action
- No suffix means permanent action

WAC # shows the section number under which an agency rule is or will be codified in the Washington Administrative Code.

WSR # shows the issue of the Washington State Register where the document may be found; the last three digits identify the document within the issue.

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|----------|-------|-----------|----------|-------|-----------|-----------|-------|-----------|
| 4-24-010 | REP-P | 93-08-089 | 4-25-141 | REP | 93-12-064 | 4-25-640 | NEW | 93-22-046 |
| 4-24-010 | REP | 93-12-064 | 4-25-142 | REP-P | 93-08-089 | 4-25-650 | NEW-P | 93-17-076 |
| 4-24-020 | REP-P | 93-08-089 | 4-25-142 | REP | 93-12-064 | 4-25-650 | NEW | 93-22-090 |
| 4-24-020 | REP | 93-12-064 | 4-25-185 | REP-P | 93-22-076 | 4-25-660 | NEW-P | 93-17-076 |
| 4-24-021 | REP-P | 93-08-089 | 4-25-186 | REP-P | 93-22-076 | 4-25-660 | NEW | 93-22-090 |
| 4-24-021 | REP | 93-12-064 | 4-25-187 | REP-P | 93-22-076 | 4-25-661 | NEW-P | 93-17-076 |
| 4-24-030 | REP-P | 93-08-089 | 4-25-188 | REP-P | 93-22-076 | 4-25-661 | NEW | 93-22-046 |
| 4-24-030 | REP | 93-12-064 | 4-25-190 | REP-P | 93-08-089 | 4-25-662 | NEW-P | 93-17-076 |
| 4-24-040 | REP-P | 93-08-089 | 4-25-190 | REP | 93-12-064 | 4-25-662 | NEW-W | 93-22-073 |
| 4-24-040 | REP | 93-12-064 | 4-25-191 | REP-P | 93-08-089 | 4-25-710 | NEW-P | 93-08-098 |
| 4-24-041 | REP-P | 93-08-089 | 4-25-191 | REP | 93-12-064 | 4-25-710 | NEW | 93-12-071 |
| 4-24-041 | REP | 93-12-064 | 4-25-220 | REP-P | 93-17-075 | 4-25-720 | NEW-P | 93-08-099 |
| 4-24-050 | REP-P | 93-08-089 | 4-25-220 | REP | 93-22-074 | 4-25-720 | NEW | 93-12-070 |
| 4-24-050 | REP | 93-12-064 | 4-25-260 | REP-P | 93-08-089 | 4-25-721 | NEW-P | 93-08-100 |
| 4-24-060 | REP-P | 93-08-089 | 4-25-260 | REP | 93-12-064 | 4-25-721 | NEW | 93-12-069 |
| 4-24-060 | REP | 93-12-064 | 4-25-280 | REP-P | 93-22-076 | 4-25-722 | NEW-P | 93-17-072 |
| 4-24-070 | REP-P | 93-08-089 | 4-25-300 | REP-P | 93-22-076 | 4-25-722 | NEW | 93-22-047 |
| 4-24-070 | REP | 93-12-064 | 4-25-320 | REP-P | 93-22-076 | 4-25-730 | NEW-P | 93-08-101 |
| 4-24-080 | REP-P | 93-08-089 | 4-25-360 | REP-P | 93-08-089 | 4-25-730 | NEW | 93-12-068 |
| 4-24-080 | REP | 93-12-064 | 4-25-360 | REP | 93-12-064 | 4-25-740 | NEW-P | 93-08-102 |
| 4-24-090 | REP-P | 93-08-089 | 4-25-400 | NEW-P | 93-08-090 | 4-25-740 | NEW | 93-12-067 |
| 4-24-090 | REP | 93-12-064 | 4-25-400 | NEW | 93-12-063 | 4-25-750 | NEW-P | 93-17-073 |
| 4-24-101 | REP-P | 93-08-089 | 4-25-510 | NEW-P | 93-08-091 | 4-25-750 | NEW | 93-22-089 |
| 4-24-101 | REP | 93-12-064 | 4-25-510 | NEW | 93-12-077 | 4-25-755 | NEW-P | 93-08-103 |
| 4-24-110 | REP-P | 93-08-089 | 4-25-511 | NEW-P | 93-08-092 | 4-25-755 | NEW | 93-12-066 |
| 4-24-110 | REP | 93-12-064 | 4-25-511 | NEW | 93-12-076 | 4-25-760 | NEW-P | 93-08-104 |
| 4-24-120 | REP-P | 93-08-089 | 4-25-520 | NEW-P | 93-08-093 | 4-25-760 | NEW | 93-12-065 |
| 4-24-120 | REP | 93-12-064 | 4-25-520 | NEW | 93-14-050 | 4-25-780 | NEW-P | 93-22-077 |
| 4-24-131 | REP-P | 93-08-089 | 4-25-521 | NEW-P | 93-22-088 | 4-25-810 | NEW-P | 93-22-088 |
| 4-24-131 | REP | 93-12-064 | 4-25-522 | NEW-P | 93-22-088 | 4-25-811 | NEW-P | 93-22-078 |
| 4-24-140 | REP-P | 93-08-089 | 4-25-530 | NEW-P | 93-08-094 | 4-25-812 | NEW-P | 93-22-078 |
| 4-24-140 | REP | 93-12-064 | 4-25-530 | NEW | 93-12-075 | 4-25-813 | NEW-P | 93-22-078 |
| 4-24-150 | REP-P | 93-08-089 | 4-25-540 | NEW-P | 93-08-095 | 4-25-820 | NEW-P | 93-22-079 |
| 4-24-150 | REP | 93-12-064 | 4-25-540 | NEW | 93-12-074 | 4-25-920 | NEW-P | 93-22-075 |
| 4-25-010 | REP-P | 93-08-089 | 4-25-550 | NEW-P | 93-08-096 | 10-04-020 | AMD-P | 93-07-097 |
| 4-25-010 | REP | 93-12-064 | 4-25-550 | NEW | 93-12-073 | 10-04-020 | AMD | 93-10-098 |
| 4-25-040 | REP-P | 93-08-089 | 4-25-551 | NEW-P | 93-08-097 | 10-08-150 | AMD-P | 93-07-096 |
| 4-25-040 | REP | 93-12-064 | 4-25-551 | NEW | 93-12-072 | 10-08-150 | AMD | 93-10-097 |
| 4-25-060 | REP-P | 93-17-075 | 4-25-600 | NEW-P | 93-17-076 | 16-08-021 | AMD-P | 93-07-021 |
| 4-25-060 | REP | 93-22-045 | 4-25-600 | NEW | 93-22-046 | 16-08-021 | AMD-E | 93-07-022 |
| 4-25-080 | AMD-P | 93-17-074 | 4-25-610 | NEW-P | 93-17-076 | 16-08-021 | AMD | 93-10-059 |
| 4-25-080 | AMD | 93-22-044 | 4-25-610 | NEW | 93-22-046 | 16-08-022 | NEW-P | 93-07-021 |
| 4-25-100 | REP-P | 93-17-075 | 4-25-620 | NEW-P | 93-17-076 | 16-08-022 | NEW-E | 93-07-022 |
| 4-25-100 | REP | 93-22-045 | 4-25-620 | NEW | 93-22-046 | 16-08-022 | NEW | 93-10-059 |
| 4-25-120 | REP-P | 93-17-075 | 4-25-622 | NEW-P | 93-17-076 | 16-08-141 | AMD-P | 93-07-021 |
| 4-25-120 | REP | 93-22-045 | 4-25-622 | NEW | 93-22-046 | 16-08-141 | AMD-E | 93-07-022 |
| 4-25-130 | REP-P | 93-17-075 | 4-25-630 | NEW-P | 93-17-076 | 16-08-141 | AMD | 93-10-059 |
| 4-25-130 | REP | 93-22-074 | 4-25-630 | NEW | 93-22-046 | 16-08-151 | AMD-P | 93-07-021 |
| 4-25-140 | REP-P | 93-08-089 | 4-25-631 | NEW-P | 93-17-076 | 16-08-151 | AMD-E | 93-07-022 |
| 4-25-140 | REP | 93-12-064 | 4-25-631 | NEW | 93-22-046 | 16-08-151 | AMD | 93-10-059 |
| 4-25-141 | REP-P | 93-08-089 | 4-25-640 | NEW-P | 93-17-076 | 16-10-010 | NEW-P | 93-04-113 |

Table of WAC Sections Affected

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
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| 16-10-010 | NEW-P | 93-06-076 | 16-147-010 | NEW-W | 93-24-094 | 16-201-210 | NEW-P | 93-12-044 |
| 16-10-010 | NEW | 93-10-046 | 16-147-020 | NEW-P | 93-20-036 | 16-201-210 | NEW | 93-22-093 |
| 16-10-020 | NEW-P | 93-04-113 | 16-147-020 | NEW-W | 93-24-094 | 16-201-220 | NEW-P | 93-12-044 |
| 16-10-020 | NEW-W | 93-06-008 | 16-147-030 | NEW-P | 93-20-036 | 16-201-220 | NEW | 93-22-093 |
| 16-10-020 | NEW-P | 93-06-076 | 16-147-030 | NEW-W | 93-24-094 | 16-201-230 | NEW-P | 93-12-044 |
| 16-10-020 | NEW | 93-10-046 | 16-147-040 | NEW-P | 93-20-036 | 16-201-230 | NEW | 93-22-093 |
| 16-10-030 | NEW-P | 93-04-113 | 16-147-040 | NEW-W | 93-24-094 | 16-201-240 | NEW-P | 93-12-044 |
| 16-10-030 | NEW-W | 93-06-008 | 16-147-050 | NEW-P | 93-20-036 | 16-201-240 | NEW | 93-22-093 |
| 16-10-030 | NEW-P | 93-06-076 | 16-147-050 | NEW-W | 93-24-094 | 16-201-250 | NEW-P | 93-12-044 |
| 16-10-030 | NEW | 93-10-046 | 16-147-060 | NEW-P | 93-20-036 | 16-201-250 | NEW | 93-22-093 |
| 16-38-001 | REP-P | 94-01-176 | 16-147-060 | NEW-W | 93-24-094 | 16-201-260 | NEW-P | 93-12-044 |
| 16-38-010 | REP-P | 94-01-176 | 16-147-070 | NEW-P | 93-20-036 | 16-201-260 | NEW | 93-22-093 |
| 16-38-020 | REP-P | 94-01-176 | 16-147-070 | NEW-W | 93-24-094 | 16-201-270 | NEW-P | 93-12-044 |
| 16-46-005 | NEW-P | 93-16-088 | 16-147-080 | NEW-P | 93-20-036 | 16-201-270 | NEW | 93-22-093 |
| 16-46-005 | NEW | 93-19-125 | 16-147-080 | NEW-W | 93-24-094 | 16-201-280 | NEW-P | 93-12-044 |
| 16-46-010 | AMD-P | 93-16-088 | 16-147-090 | NEW-P | 93-20-036 | 16-201-280 | NEW | 93-22-093 |
| 16-46-010 | AMD | 93-19-125 | 16-147-090 | NEW-W | 93-24-094 | 16-201-290 | NEW-P | 93-12-044 |
| 16-46-020 | AMD-P | 93-16-088 | 16-147-100 | NEW-P | 93-20-036 | 16-201-290 | NEW | 93-22-093 |
| 16-46-020 | AMD | 93-19-125 | 16-147-100 | NEW-W | 93-24-094 | 16-218-001 | AMD-P | 93-12-134 |
| 16-46-030 | AMD-P | 93-16-088 | 16-147-110 | NEW-P | 93-20-036 | 16-218-001 | AMD | 93-15-069 |
| 16-46-030 | AMD | 93-19-125 | 16-147-110 | NEW-W | 93-24-094 | 16-218-010 | AMD-P | 93-12-134 |
| 16-46-035 | NEW-P | 93-16-088 | 16-147-120 | NEW-P | 93-20-036 | 16-218-010 | AMD | 93-15-069 |
| 16-46-035 | NEW | 93-19-125 | 16-147-120 | NEW-W | 93-24-094 | 16-218-02001 | AMD-P | 93-12-134 |
| 16-46-040 | AMD-P | 93-16-088 | 16-147-130 | NEW-P | 93-20-036 | 16-218-02001 | AMD | 93-15-069 |
| 16-46-040 | AMD | 93-19-125 | 16-147-130 | NEW-W | 93-24-094 | 16-218-030 | NEW-P | 93-12-134 |
| 16-46-045 | NEW-P | 93-16-088 | 16-147-140 | NEW-P | 93-20-036 | 16-218-030 | NEW | 93-15-069 |
| 16-46-045 | NEW | 93-19-125 | 16-147-140 | NEW-W | 93-24-094 | 16-219-010 | NEW-P | 93-12-128 |
| 16-46-050 | REP-P | 93-16-088 | 16-147-150 | NEW-P | 93-20-036 | 16-219-010 | NEW | 93-16-017 |
| 16-46-050 | REP | 93-19-125 | 16-147-150 | NEW-W | 93-24-094 | 16-219-014 | NEW-E | 93-18-064 |
| 16-46-060 | REP-P | 93-16-088 | 16-201 | NEW-C | 93-18-011 | 16-219-015 | NEW-P | 93-12-128 |
| 16-46-060 | REP | 93-19-125 | 16-201 | NEW-C | 93-19-066 | 16-219-015 | NEW-E | 93-13-038 |
| 16-46-070 | AMD-P | 93-16-088 | 16-201-010 | NEW-P | 93-12-044 | 16-219-015 | RESCIND | 93-13-045 |
| 16-46-070 | AMD | 93-19-125 | 16-201-010 | NEW | 93-22-093 | 16-219-015 | NEW-E | 93-13-046 |
| 16-54-010 | AMD-P | 93-16-089 | 16-201-020 | NEW-P | 93-12-044 | 16-219-015 | NEW | 93-16-017 |
| 16-54-010 | AMD | 93-19-126 | 16-201-020 | NEW | 93-22-093 | 16-219-015 | REP-P | 93-18-061 |
| 16-54-020 | AMD-P | 93-16-089 | 16-201-025 | NEW-P | 93-12-044 | 16-219-015 | RESCIND | 93-18-063 |
| 16-54-020 | AMD | 93-19-126 | 16-201-025 | NEW | 93-22-093 | 16-219-015 | AMD-E | 93-18-064 |
| 16-54-035 | AMD-P | 93-16-089 | 16-201-028 | NEW-P | 93-12-044 | 16-219-015 | REP-W | 93-22-072 |
| 16-54-035 | AMD | 93-19-126 | 16-201-028 | NEW | 93-22-093 | 16-219-016 | NEW-E | 93-18-004 |
| 16-54-135 | AMD-P | 93-16-089 | 16-201-030 | NEW-P | 93-12-044 | 16-219-016 | RESCIND | 93-18-063 |
| 16-54-135 | AMD | 93-19-126 | 16-201-030 | NEW | 93-22-093 | 16-219-016 | NEW-E | 93-18-064 |
| 16-70-005 | NEW-P | 93-16-090 | 16-201-040 | NEW-P | 93-12-044 | 16-219-020 | NEW-P | 93-12-128 |
| 16-70-005 | NEW | 93-19-127 | 16-201-040 | NEW | 93-22-093 | 16-219-020 | NEW-E | 93-13-038 |
| 16-70-010 | AMD-P | 93-16-090 | 16-201-050 | NEW-P | 93-12-044 | 16-219-020 | RESCIND | 93-13-045 |
| 16-70-010 | AMD | 93-19-127 | 16-201-050 | NEW | 93-22-093 | 16-219-020 | NEW-E | 93-13-046 |
| 16-70-020 | AMD-P | 93-16-090 | 16-201-060 | NEW-P | 93-12-044 | 16-219-020 | NEW | 93-16-017 |
| 16-70-020 | AMD | 93-19-127 | 16-201-060 | NEW | 93-22-093 | 16-219-020 | REP-P | 93-18-061 |
| 16-78-001 | REP-P | 93-16-091 | 16-201-070 | NEW-P | 93-12-044 | 16-219-020 | RESCIND | 93-18-063 |
| 16-78-001 | REP | 93-19-129 | 16-201-070 | NEW | 93-22-093 | 16-219-020 | REP-E | 93-18-064 |
| 16-78-002 | REP-P | 93-16-091 | 16-201-080 | NEW-P | 93-12-044 | 16-219-020 | REP-W | 93-22-072 |
| 16-78-002 | REP | 93-19-129 | 16-201-080 | NEW | 93-22-093 | 16-219-025 | NEW-P | 93-12-128 |
| 16-78-003 | REP-P | 93-16-091 | 16-201-100 | NEW-P | 93-12-044 | 16-219-025 | NEW-E | 93-13-038 |
| 16-78-003 | REP | 93-19-129 | 16-201-100 | NEW | 93-22-093 | 16-219-025 | RESCIND | 93-13-045 |
| 16-78-010 | REP-P | 93-16-091 | 16-201-110 | NEW-P | 93-12-044 | 16-219-025 | NEW-E | 93-13-046 |
| 16-78-010 | REP | 93-19-129 | 16-201-110 | NEW | 93-22-093 | 16-219-025 | NEW | 93-16-017 |
| 16-78-020 | REP-P | 93-16-091 | 16-201-120 | NEW-P | 93-12-044 | 16-219-025 | REP-P | 93-18-061 |
| 16-78-020 | REP | 93-19-129 | 16-201-120 | NEW | 93-22-093 | 16-219-025 | RESCIND | 93-18-063 |
| 16-78-030 | REP-P | 93-16-091 | 16-201-130 | NEW-P | 93-12-044 | 16-219-025 | REP-E | 93-18-064 |
| 16-78-030 | REP | 93-19-129 | 16-201-130 | NEW | 93-22-093 | 16-219-025 | REP-W | 93-22-072 |
| 16-86-015 | AMD-P | 94-01-177 | 16-201-140 | NEW-P | 93-12-044 | 16-219-026 | NEW-E | 93-18-004 |
| 16-88-010 | NEW-P | 93-16-092 | 16-201-140 | NEW | 93-22-093 | 16-219-026 | RESCIND | 93-18-063 |
| 16-88-010 | NEW | 93-19-128 | 16-201-150 | NEW-P | 93-12-044 | 16-219-026 | NEW-E | 93-18-064 |
| 16-88-020 | NEW-P | 93-16-092 | 16-201-150 | NEW | 93-22-093 | 16-219-027 | NEW-E | 93-18-004 |
| 16-88-020 | NEW | 93-19-128 | 16-201-160 | NEW-P | 93-12-044 | 16-219-027 | RESCIND | 93-18-063 |
| 16-88-030 | NEW-P | 93-16-092 | 16-201-160 | NEW | 93-22-093 | 16-219-027 | NEW-E | 93-18-064 |
| 16-88-030 | NEW | 93-19-128 | 16-201-170 | NEW-P | 93-12-044 | 16-219-030 | NEW-P | 93-12-128 |
| 16-88-040 | NEW-P | 93-16-092 | 16-201-170 | NEW | 93-22-093 | 16-219-030 | NEW-E | 93-13-038 |
| 16-88-040 | NEW | 93-19-128 | 16-201-180 | NEW-P | 93-12-044 | 16-219-030 | RESCIND | 93-13-045 |
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| 16-101-700 | AMD-P | 93-20-035 | 16-201-190 | NEW-P | 93-12-044 | 16-219-030 | NEW | 93-16-017 |
| 16-101-700 | AMD | 93-24-093 | 16-201-190 | NEW | 93-22-093 | 16-219-030 | REP-P | 93-18-061 |
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| 16-219-030 | REP-W | 93-22-072 | 16-229-110 | NEW-P | 93-12-044 |
| 16-221-001 | REP-P | 93-21-085 | 16-229-110 | NEW | 93-22-093 |
| 16-221-010 | REP-P | 93-21-085 | 16-229-120 | NEW-P | 93-12-044 |
| 16-221-020 | REP-P | 93-21-085 | 16-229-120 | NEW | 93-22-093 |
| 16-221-030 | REP-P | 93-21-085 | 16-229-130 | NEW-P | 93-12-044 |
| 16-221-040 | REP-P | 93-21-085 | 16-229-130 | NEW | 93-22-093 |
| 16-223-001 | REP-P | 93-21-084 | 16-229-140 | NEW-P | 93-12-044 |
| 16-223-002 | REP-P | 93-21-084 | 16-229-140 | NEW | 93-22-093 |
| 16-223-004 | REP-P | 93-21-084 | 16-229-150 | NEW-P | 93-12-044 |
| 16-223-005 | REP-P | 93-21-084 | 16-229-150 | NEW | 93-22-093 |
| 16-223-010 | REP-P | 93-21-084 | 16-229-160 | NEW-P | 93-12-044 |
| 16-223-020 | REP-P | 93-21-084 | 16-229-160 | NEW | 93-22-093 |
| 16-223-030 | REP-P | 93-21-084 | 16-229-170 | NEW-P | 93-12-044 |
| 16-223-040 | REP-P | 93-21-084 | 16-229-170 | NEW | 93-22-093 |
| 16-223-050 | REP-P | 93-21-084 | 16-229-180 | NEW-P | 93-12-044 |
| 16-223-060 | REP-P | 93-21-084 | 16-229-180 | NEW | 93-22-093 |
| 16-223-070 | REP-P | 93-21-084 | 16-229-200 | NEW-P | 93-12-044 |
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| 16-228-900 | REP-W | 93-06-007 | 16-229-220 | NEW-P | 93-12-044 |
| 16-228-900 | REP-P | 93-06-075 | 16-229-220 | NEW | 93-22-093 |
| 16-228-900 | REP | 93-10-047 | 16-229-230 | NEW-P | 93-12-044 |
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| 16-228-905 | NEW-W | 93-06-007 | 16-229-240 | NEW-P | 93-12-044 |
| 16-228-905 | NEW-P | 93-06-075 | 16-229-240 | NEW | 93-22-093 |
| 16-228-905 | NEW | 93-10-047 | 16-229-250 | NEW-P | 93-12-044 |
| 16-228-910 | NEW-P | 93-04-114 | 16-229-250 | NEW | 93-22-093 |
| 16-228-910 | NEW-W | 93-06-007 | 16-229-260 | NEW-P | 93-12-044 |
| 16-228-910 | NEW-P | 93-06-075 | 16-229-260 | NEW | 93-22-093 |
| 16-228-910 | NEW | 93-10-047 | 16-229-270 | NEW-P | 93-12-044 |
| 16-228-915 | NEW-P | 93-04-114 | 16-229-270 | NEW | 93-22-093 |
| 16-228-915 | NEW-W | 93-06-007 | 16-229-280 | NEW-P | 93-12-044 |
| 16-228-915 | NEW-P | 93-06-075 | 16-229-280 | NEW | 93-22-093 |
| 16-228-915 | NEW | 93-10-047 | 16-229-300 | NEW-P | 93-12-044 |
| 16-228-920 | NEW-P | 93-04-114 | 16-229-300 | NEW | 93-22-093 |
| 16-228-920 | NEW-W | 93-06-007 | 16-229-310 | NEW-P | 93-12-044 |
| 16-228-920 | NEW-P | 93-06-075 | 16-229-310 | NEW | 93-22-093 |
| 16-228-920 | NEW | 93-10-047 | 16-229-400 | NEW-P | 93-12-044 |
| 16-228-925 | NEW-P | 93-04-114 | 16-229-400 | NEW | 93-22-093 |
| 16-228-925 | NEW-W | 93-06-007 | 16-229-410 | NEW-P | 93-12-044 |
| 16-228-925 | NEW-P | 93-06-075 | 16-229-410 | NEW | 93-22-093 |
| 16-228-925 | NEW | 93-10-047 | 16-229-420 | NEW-P | 93-12-044 |
| 16-228-930 | NEW-P | 93-04-114 | 16-229-420 | NEW | 93-22-093 |
| 16-228-930 | NEW-W | 93-06-007 | 16-229-430 | NEW-P | 93-12-044 |
| 16-228-930 | NEW-P | 93-06-075 | 16-229-430 | NEW | 93-22-093 |
| 16-228-930 | NEW | 93-10-047 | 16-229-440 | NEW-P | 93-12-044 |
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| 16-229-010 | NEW | 93-22-093 | 16-229-470 | NEW-P | 93-12-044 |
| 16-229-015 | NEW-P | 93-12-044 | 16-229-470 | NEW | 93-22-093 |
| 16-229-015 | NEW | 93-22-093 | 16-229-480 | NEW-P | 93-12-044 |
| 16-229-020 | NEW-P | 93-12-044 | 16-229-480 | NEW | 93-22-093 |
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| 16-229-030 | NEW-P | 93-12-044 | 16-230-250 | AMD | 93-17-041 |
| 16-229-030 | NEW | 93-22-093 | 16-230-260 | AMD-E | 93-12-038 |
| 16-229-040 | NEW-P | 93-12-044 | 16-230-260 | AMD-P | 93-12-129 |
| 16-229-040 | NEW | 93-22-093 | 16-230-260 | AMD | 93-17-041 |
| 16-229-050 | NEW-P | 93-12-044 | 16-230-260 | AMD | 93-17-041 |
| 16-229-050 | NEW | 93-22-093 | 16-230-270 | AMD-E | 93-12-038 |
| 16-229-060 | NEW-P | 93-12-044 | 16-230-270 | AMD-P | 93-12-129 |
| 16-229-060 | NEW | 93-22-093 | 16-230-270 | AMD | 93-17-041 |
| 16-229-070 | NEW-P | 93-12-044 | 16-230-280 | REP-E | 93-12-038 |
| 16-229-070 | NEW | 93-22-093 | 16-230-280 | REP-P | 93-12-129 |
| 16-229-080 | NEW-P | 93-12-044 | 16-230-280 | REP | 93-17-041 |
| 16-229-080 | NEW | 93-22-093 | 16-230-281 | NEW-E | 93-12-038 |
| 16-229-090 | NEW-P | 93-12-044 | 16-230-281 | NEW-P | 93-12-129 |
| 16-229-090 | NEW | 93-22-093 | 16-230-281 | NEW | 93-17-041 |
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| 16-230-300 | REP-P | 93-12-129 | 16-230-300 | REP | 93-17-041 |
| 16-230-300 | REP | 93-17-041 | 16-230-871 | NEW-E | 93-19-049 |
| 16-230-871 | NEW-E | 93-19-049 | 16-316 | AMD-C | 93-23-063 |
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| 16-316-572 | AMD | 93-24-043 | 16-316-572 | AMD | 93-24-043 |
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| 16-316-701 | AMD | 93-24-043 | 16-316-701 | AMD | 93-24-043 |
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| 16-316-715 | AMD | 93-24-043 | 16-316-715 | AMD | 93-24-043 |
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| 16-316-717 | AMD | 93-24-043 | 16-316-717 | AMD | 93-24-043 |
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| 16-316-719 | AMD | 93-24-043 | 16-316-719 | AMD | 93-24-043 |
| 16-316-721 | AMD-P | 93-19-124 | 16-316-721 | AMD-P | 93-19-124 |
| 16-316-721 | AMD | 93-24-043 | 16-316-721 | AMD | 93-24-043 |
| 16-316-722 | NEW-P | 93-19-124 | 16-316-722 | NEW-P | 93-19-124 |
| 16-316-722 | NEW | 93-24-043 | 16-316-722 | NEW | 93-24-043 |
| 16-316-723 | AMD-P | 93-19-124 | 16-316-723 | AMD-P | 93-19-124 |
| 16-316-723 | AMD | 93-24-043 | 16-316-723 | AMD | 93-24-043 |
| 16-316-724 | AMD-P | 93-19-124 | 16-316-724 | AMD-P | 93-19-124 |
| 16-316-724 | AMD | 93-24-043 | 16-316-724 | AMD | 93-24-043 |
| 16-316-727 | AMD-P | 93-19-124 | 16-316-727 | AMD-P | 93-19-124 |
| 16-316-727 | AMD | 93-24-043 | 16-316-727 | AMD | 93-24-043 |
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| 16-316-729 | NEW | 93-24-043 | 16-316-729 | NEW | 93-24-043 |
| 16-316-731 | NEW-P | 93-19-124 | 16-316-731 | NEW-P | 93-19-124 |
| 16-316-731 | NEW | 93-24-043 | 16-316-731 | NEW | 93-24-043 |
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| 16-354-020 | AMD | 93-17-019 | 16-354-020 | AMD | 93-17-019 |
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| 16-400-210 | AMD-P | 93-04-103 | 16-400-210 | AMD-P | 93-04-103 |
| 16-400-210 | AMD | 93-07-105 | 16-400-210 | AMD | 93-07-105 |
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| 16-403-150 | AMD-E | 94-01-165 | 16-403-150 | AMD-E | 94-01-165 |
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| 16-415-030 | REP-P | 93-21-087 | 16-415-030 | REP-P | 93-21-087 |
| 16-415-040 | REP-P | 93-21-087 | 16-415-040 | REP-P | 93-21-087 |
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| 16-432-020 | REP-P | 93-21-086 | 16-432-020 | REP-P | 93-21-086 |
| 16-432-030 | REP-P | 93-21-086 | 16-432-030 | REP-P | 93-21-086 |
| 16-432-040 | REP-P | 93-21-086 | 16-432-040 | REP-P | 93-21-086 |
| 16-432-050 | REP-P | 93-21-086 | 16-432-050 | REP-P | 93-21-086 |
| 16-432-060 | REP-P | 93-21-086 | 16-432-060 | REP-P | 93-21-086 |
| 16-432-070 | REP-P | 93-21-086 | 16-432-070 | REP-P | 93-21-086 |
| 16-432-080 | REP-P | 93-21-086 | 16-432-080 | REP-P | 93-21-086 |
| 16-432-090 | REP-P | 93-21-086 | 16-432-090 | REP-P | 93-21-086 |
| 16-432-100 | REP-P | 93-21-086 | 16-432-100 | REP-P | 93-21-086 |
| 16-432-110 | REP-P | 93-21-086 | 16-432-110 | REP-P | 93-21-086 |
| 16-432-120 | REP-P | 93-21-086 | 16-432-120 | REP-P | 93-21-086 |
| 16-432-130 | REP-P | 93-21-086 | 16-432-130 | REP-P | 93-21-086 |
| 16-461-011 | NEW-P | 93-08-060 | 16-461-011 | NEW-P | 93-08-060 |
| 16-461-011 | NEW-W | 93-12-047 | 16-461-011 | NEW-W | 93-12-047 |
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| 16-470-92005 | NEW-P | 94-01-163 | 44-01-060 | REP | 94-01-004 | 50-60-040 | NEW-E | 93-21-022 |
| 16-470-92010 | NEW-E | 93-20-102 | 44-01-070 | REP-P | 93-21-093 | 50-60-040 | NEW-P | 93-24-099 |
| 16-470-92010 | NEW-P | 94-01-163 | 44-01-070 | REP | 94-01-004 | 50-60-050 | NEW-E | 93-21-022 |
| 16-470-92015 | NEW-E | 93-20-102 | 44-01-080 | REP-P | 93-21-093 | 50-60-050 | NEW-P | 93-24-099 |
| 16-470-92015 | NEW-P | 94-01-163 | 44-01-080 | REP | 94-01-004 | 50-60-060 | NEW-E | 93-21-022 |
| 16-470-92020 | NEW-E | 93-20-102 | 44-01-090 | REP-P | 93-21-093 | 50-60-060 | NEW-P | 93-24-099 |
| 16-470-92020 | NEW-P | 94-01-163 | 44-01-090 | REP | 94-01-004 | 50-60-070 | NEW-E | 93-21-022 |
| 16-470-92025 | NEW-E | 93-20-102 | 44-01-100 | AMD-E | 93-14-081 | 50-60-070 | NEW-P | 93-24-099 |
| 16-470-92025 | NEW-P | 94-01-163 | 44-01-100 | REP-P | 93-21-093 | 50-60-080 | NEW-E | 93-21-022 |
| 16-470-92030 | NEW-E | 93-20-102 | 44-01-100 | AMD-E | 93-22-066 | 50-60-080 | NEW-P | 93-24-099 |
| 16-470-92030 | NEW-P | 94-01-163 | 44-01-100 | REP | 94-01-004 | 50-60-090 | NEW-E | 93-21-022 |
| 16-470-92035 | NEW-E | 93-20-102 | 44-01-110 | AMD-E | 93-14-081 | 50-60-090 | NEW-P | 93-24-099 |
| 16-470-92035 | NEW-P | 94-01-163 | 44-01-110 | REP-P | 93-21-093 | 50-60-100 | NEW-E | 93-21-022 |
| 16-470-92040 | NEW-E | 93-20-102 | 44-01-110 | AMD-E | 93-22-066 | 50-60-100 | NEW-P | 93-24-099 |
| 16-470-92040 | NEW-P | 94-01-163 | 44-01-110 | REP | 94-01-004 | 50-60-110 | NEW-E | 93-21-022 |
| 16-532-120 | AMD-P | 93-06-083 | 44-01-120 | AMD-E | 93-14-081 | 50-60-110 | NEW-P | 93-24-099 |
| 16-532-120 | AMD | 93-09-014 | 44-01-120 | REP-P | 93-21-093 | 50-60-120 | NEW-E | 93-21-022 |
| 16-555-010 | AMD-P | 93-04-094 | 44-01-120 | AMD-E | 93-22-066 | 50-60-120 | NEW-P | 93-24-099 |
| 16-555-010 | AMD | 93-10-063 | 44-01-120 | REP | 94-01-004 | 50-60-130 | NEW-E | 93-21-022 |
| 16-555-020 | AMD-P | 93-04-094 | 44-01-130 | AMD-E | 93-14-081 | 50-60-130 | NEW-P | 93-24-099 |
| 16-555-020 | AMD | 93-10-063 | 44-01-130 | REP-P | 93-21-093 | 50-60-140 | NEW-E | 93-21-022 |
| 16-561-100 | NEW-P | 93-16-070 | 44-01-130 | AMD-E | 93-22-066 | 50-60-140 | NEW-P | 93-24-099 |
| 16-561-100 | NEW | 93-20-088 | 44-01-130 | REP | 94-01-004 | 50-60-150 | NEW-E | 93-21-022 |
| 16-561-110 | NEW-P | 93-16-070 | 44-01-140 | AMD-E | 93-14-081 | 50-60-150 | NEW-P | 93-24-099 |
| 16-561-110 | NEW | 93-20-088 | 44-01-150 | AMD-E | 93-14-081 | 50-60-160 | NEW-E | 93-21-022 |
| 16-561-120 | NEW-P | 93-16-070 | 44-01-150 | REP-P | 93-21-093 | 50-60-160 | NEW-P | 93-24-099 |
| 16-561-120 | NEW | 93-20-088 | 44-01-150 | AMD-E | 93-22-066 | 50-60-170 | NEW-E | 93-21-022 |
| 16-570-040 | AMD-P | 93-07-085 | 44-01-150 | REP | 94-01-004 | 50-60-170 | NEW-P | 93-24-099 |
| 16-570-040 | AMD | 93-11-032 | 44-01-160 | AMD-E | 93-14-081 | 50-60-180 | NEW-E | 93-24-061 |
| 16-602-020 | AMD-P | 93-15-099 | 44-01-160 | REP-P | 93-21-093 | 50-60-180 | NEW-P | 93-24-099 |
| 16-602-020 | AMD | 93-19-082 | 44-01-160 | AMD-E | 93-22-066 | 51-04 | AMD-C | 93-23-062 |
| 16-602-025 | NEW-P | 94-01-162 | 44-01-160 | REP | 94-01-004 | 51-04-015 | AMD-W | 93-14-017 |
| 16-602-040 | NEW-E | 93-12-039 | 44-01-170 | AMD-E | 93-14-081 | 51-04-015 | AMD-P | 93-16-110 |
| 16-602-040 | NEW-P | 93-15-100 | 44-01-170 | REP-P | 93-21-093 | 51-04-018 | AMD-W | 93-14-017 |
| 16-602-040 | NEW | 93-19-081 | 44-01-170 | AMD-E | 93-22-066 | 51-04-018 | AMD-P | 93-16-110 |
| 16-620-150 | NEW-P | 93-17-059 | 44-01-170 | REP | 94-01-004 | 51-04-020 | AMD-W | 93-14-017 |
| 16-620-150 | NEW | 93-22-013 | 44-01-180 | REP-P | 93-21-093 | 51-04-020 | AMD-P | 93-16-110 |
| 16-620-270 | AMD-P | 93-17-059 | 44-01-180 | REP | 94-01-004 | 51-04-025 | AMD-W | 93-14-017 |
| 16-620-270 | AMD | 93-22-013 | 44-10-030 | AMD-E | 93-07-017 | 51-04-025 | AMD-P | 93-16-110 |
| 16-674-002 | REP | 93-03-079 | 50-14-020 | AMD-P | 93-11-087 | 51-04-030 | AMD-W | 93-14-017 |
| 16-674-010 | AMD | 93-03-079 | 50-14-020 | AMD | 93-13-142 | 51-04-030 | AMD-P | 93-16-110 |
| 16-674-020 | REP | 93-03-079 | 50-14-030 | AMD-P | 93-11-087 | 51-04-060 | AMD-W | 93-14-017 |
| 16-674-060 | NEW | 93-03-079 | 50-14-030 | AMD | 93-13-142 | 51-04-060 | AMD-P | 93-16-110 |
| 16-674-070 | NEW | 93-03-079 | 50-14-040 | AMD-P | 93-11-087 | 51-11-0101 | AMD-P | 93-08-077 |
| 16-674-080 | NEW | 93-03-079 | 50-14-040 | AMD | 93-13-142 | 51-11-0101 | AMD-W | 93-08-084 |
| 16-674-090 | NEW | 93-03-079 | 50-14-050 | AMD-P | 93-11-087 | 51-11-0101 | AMD | 93-21-052 |
| 16-674-100 | NEW | 93-03-079 | 50-14-050 | AMD | 93-13-142 | 51-11-0200 | AMD-P | 93-08-077 |
| 16-678-001 | REP-P | 93-21-083 | 50-14-060 | AMD-P | 93-11-087 | 51-11-0200 | AMD-W | 93-21-060 |
| 16-678-010 | REP-P | 93-21-083 | 50-14-060 | AMD | 93-13-142 | 51-11-0201 | AMD-P | 93-08-077 |
| 16-680-001 | REP-P | 93-21-082 | 50-14-070 | AMD-P | 93-11-087 | 51-11-0201 | AMD-S | 93-20-129 |
| 16-680-010 | REP-P | 93-21-082 | 50-14-070 | AMD | 93-13-142 | 51-11-0201 | AMD | 93-21-052 |
| 16-680-015 | REP-P | 93-21-082 | 50-14-080 | AMD-P | 93-11-087 | 51-11-0401 | AMD-P | 93-08-077 |
| 16-750-011 | AMD-P | 93-20-101 | 50-14-080 | AMD | 93-13-142 | 51-11-0401 | AMD-W | 93-08-084 |
| 16-750-011 | AMD | 94-01-076 | 50-14-090 | AMD-P | 93-11-087 | 51-11-0401 | AMD | 93-21-052 |
| 16-750-015 | AMD-P | 93-20-101 | 50-14-090 | AMD | 93-13-142 | 51-11-0402 | AMD-P | 93-16-113 |
| 16-750-015 | AMD | 94-01-076 | 50-14-100 | AMD-P | 93-11-087 | 51-11-0402 | AMD-S | 93-20-129 |
| 44-01-010 | AMD-E | 93-14-081 | 50-14-100 | AMD | 93-13-142 | 51-11-0502 | AMD-P | 93-08-077 |
| 44-01-010 | REP-P | 93-21-093 | 50-14-100 | AMD | 93-13-142 | 51-11-0502 | AMD-W | 93-08-084 |
| 44-01-010 | AMD-E | 93-22-066 | 50-14-110 | AMD-P | 93-11-087 | 51-11-0502 | AMD | 93-16-112 |
| 44-01-010 | REP | 94-01-004 | 50-14-110 | AMD | 93-13-142 | 51-11-0502 | AMD-P | 93-16-113 |
| 44-01-020 | AMD-E | 93-14-081 | 50-14-130 | AMD-P | 93-11-087 | 51-11-0502 | AMD-E | 93-20-106 |
| 44-01-020 | REP-P | 93-21-093 | 50-14-130 | AMD | 93-13-142 | 51-11-0502 | AMD-S | 93-20-129 |
| 44-01-020 | AMD-E | 93-22-066 | 50-20-130 | AMD-P | 93-16-033 | 51-11-0503 | AMD-P | 93-08-077 |
| 44-01-020 | REP | 94-01-004 | 50-30-030 | AMD-P | 93-13-143 | 51-11-0503 | AMD-W | 93-08-084 |
| 44-01-030 | AMD-E | 93-14-081 | 50-30-030 | AMD | 93-16-032 | 51-11-0503 | AMD | 93-21-052 |
| 44-01-030 | REP-P | 93-21-093 | 50-48-100 | AMD-P | 93-05-052 | 51-11-0505 | AMD-P | 93-08-077 |
| 44-01-030 | AMD-E | 93-22-066 | 50-48-100 | AMD | 93-07-113 | 51-11-0505 | AMD-W | 93-08-084 |
| 44-01-030 | REP | 94-01-004 | 50-60-010 | NEW-E | 93-21-022 | 51-11-0505 | AMD | 93-21-052 |
| 44-01-040 | REP-P | 93-21-093 | 50-60-010 | NEW-P | 93-24-099 | 51-11-0525 | AMD-P | 93-16-113 |
| 44-01-040 | REP | 94-01-004 | 50-60-020 | NEW-E | 93-21-022 | 51-11-0525 | AMD-S | 93-20-129 |
| 44-01-050 | REP-P | 93-21-093 | 50-60-020 | NEW-P | 93-24-099 | 51-11-0527 | AMD-P | 93-16-113 |

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| 51-11-0528 | AMD-P | 93-08-077 | 51-11-1104 | NEW-W | 93-08-084 | 51-11-1332 | NEW | 93-21-052 |
| 51-11-0528 | AMD-W | 93-08-084 | 51-11-1105 | NEW-W | 93-08-084 | 51-11-1333 | NEW-P | 93-08-077 |
| 51-11-0528 | AMD | 93-21-052 | 51-11-1106 | NEW-W | 93-08-084 | 51-11-1333 | NEW | 93-21-052 |
| 51-11-0529 | AMD-P | 93-08-077 | 51-11-1107 | NEW-W | 93-08-084 | 51-11-1334 | NEW-P | 93-08-077 |
| 51-11-0529 | AMD-W | 93-08-084 | 51-11-1108 | NEW-W | 93-08-084 | 51-11-1334 | NEW-C | 93-16-111 |
| 51-11-0529 | AMD | 93-21-052 | 51-11-1109 | NEW-W | 93-08-084 | 51-11-1334 | NEW | 93-21-052 |
| 51-11-0531 | AMD-P | 93-08-077 | 51-11-1110 | NEW-P | 93-08-077 | 51-11-1401 | NEW-P | 93-08-077 |
| 51-11-0531 | AMD-W | 93-08-084 | 51-11-1110 | NEW | 93-21-052 | 51-11-1401 | NEW-W | 93-08-084 |
| 51-11-0531 | AMD | 93-21-052 | 51-11-1120 | NEW-P | 93-08-077 | 51-11-1401 | NEW | 93-21-052 |
| 51-11-0532 | AMD-P | 93-08-077 | 51-11-1120 | NEW | 93-21-052 | 51-11-1402 | NEW-P | 93-08-077 |
| 51-11-0532 | AMD-W | 93-08-084 | 51-11-1130 | NEW-P | 93-08-077 | 51-11-1402 | NEW-W | 93-08-084 |
| 51-11-0532 | AMD | 93-21-052 | 51-11-1130 | NEW | 93-21-052 | 51-11-1402 | NEW | 93-21-052 |
| 51-11-0538 | AMD-P | 93-08-077 | 51-11-1131 | NEW-P | 93-08-077 | 51-11-1410 | NEW-P | 93-08-077 |
| 51-11-0538 | AMD-W | 93-08-084 | 51-11-1131 | NEW | 93-21-052 | 51-11-1410 | NEW | 93-21-052 |
| 51-11-0538 | AMD | 93-21-052 | 51-11-1132 | NEW-P | 93-08-077 | 51-11-1411 | NEW-P | 93-08-077 |
| 51-11-0539 | AMD-P | 93-08-077 | 51-11-1132 | NEW | 93-21-052 | 51-11-1411 | NEW | 93-21-052 |
| 51-11-0539 | AMD-W | 93-08-084 | 51-11-1133 | NEW-P | 93-08-077 | 51-11-1412 | NEW-P | 93-08-077 |
| 51-11-0539 | AMD | 93-21-052 | 51-11-1133 | NEW | 93-21-052 | 51-11-1412 | NEW-C | 93-16-111 |
| 51-11-0540 | AMD-P | 93-08-077 | 51-11-1134 | NEW-P | 93-08-077 | 51-11-1412 | NEW | 93-21-052 |
| 51-11-0540 | AMD-W | 93-08-084 | 51-11-1134 | NEW | 93-21-052 | 51-11-1413 | NEW-P | 93-08-077 |
| 51-11-0540 | AMD | 93-21-052 | 51-11-1140 | NEW-P | 93-08-077 | 51-11-1413 | NEW | 93-21-052 |
| 51-11-0542 | AMD-P | 93-08-077 | 51-11-1140 | NEW | 93-21-052 | 51-11-1414 | NEW-P | 93-08-077 |
| 51-11-0542 | AMD-W | 93-08-084 | 51-11-1141 | NEW-P | 93-08-077 | 51-11-1414 | NEW-C | 93-16-111 |
| 51-11-0542 | AMD | 93-21-052 | 51-11-1141 | NEW | 93-21-052 | 51-11-1414 | NEW | 93-21-052 |
| 51-11-0601 | AMD-P | 93-08-077 | 51-11-1142 | NEW-P | 93-08-077 | 51-11-1415 | NEW-P | 93-08-077 |
| 51-11-0601 | AMD-W | 93-08-084 | 51-11-1142 | NEW | 93-21-052 | 51-11-1415 | NEW-C | 93-16-111 |
| 51-11-0601 | AMD-W | 93-16-112 | 51-11-1143 | NEW-P | 93-08-077 | 51-11-1415 | NEW | 93-21-052 |
| 51-11-0601 | AMD-P | 93-16-113 | 51-11-1143 | NEW | 93-21-052 | 51-11-1420 | NEW-P | 93-08-077 |
| 51-11-0601 | AMD-S | 93-20-129 | 51-11-1144 | NEW-P | 93-08-077 | 51-11-1420 | NEW | 93-21-052 |
| 51-11-0602 | AMD-P | 93-16-113 | 51-11-1144 | NEW | 93-21-052 | 51-11-1421 | NEW-P | 93-08-077 |
| 51-11-0602 | AMD-S | 93-20-129 | 51-11-1150 | NEW-P | 93-08-077 | 51-11-1421 | NEW | 93-21-052 |
| 51-11-0603 | AMD-P | 93-16-113 | 51-11-1150 | NEW | 93-21-052 | 51-11-1422 | NEW-P | 93-08-077 |
| 51-11-0603 | AMD-S | 93-20-129 | 51-11-1160 | NEW-P | 93-08-077 | 51-11-1422 | NEW | 93-21-052 |
| 51-11-0605 | AMD-P | 93-08-077 | 51-11-1160 | NEW | 93-21-052 | 51-11-1423 | NEW-P | 93-08-077 |
| 51-11-0605 | AMD-W | 93-08-084 | 51-11-1201 | NEW-P | 93-08-077 | 51-11-1423 | NEW | 93-21-052 |
| 51-11-0605 | AMD | 93-21-052 | 51-11-1201 | NEW-W | 93-08-084 | 51-11-1424 | NEW-P | 93-08-077 |
| 51-11-0606 | AMD-P | 93-08-077 | 51-11-1201 | NEW | 93-21-052 | 51-11-1424 | NEW | 93-21-052 |
| 51-11-0606 | AMD-W | 93-08-084 | 51-11-1210 | NEW-P | 93-08-077 | 51-11-1430 | NEW-P | 93-08-077 |
| 51-11-0606 | AMD | 93-21-052 | 51-11-1210 | NEW | 93-21-052 | 51-11-1430 | NEW | 93-21-052 |
| 51-11-0607 | AMD-P | 93-08-077 | 51-11-1301 | NEW-P | 93-08-077 | 51-11-1431 | NEW-P | 93-08-077 |
| 51-11-0607 | AMD-W | 93-08-084 | 51-11-1301 | NEW-W | 93-08-084 | 51-11-1431 | NEW | 93-21-052 |
| 51-11-0607 | AMD | 93-21-052 | 51-11-1301 | NEW | 93-21-052 | 51-11-1432 | NEW-P | 93-08-077 |
| 51-11-0608 | AMD-P | 93-08-077 | 51-11-1302 | NEW-P | 93-08-077 | 51-11-1432 | NEW | 93-21-052 |
| 51-11-0608 | AMD-W | 93-08-084 | 51-11-1302 | NEW-W | 93-08-084 | 51-11-1433 | NEW-P | 93-08-077 |
| 51-11-0608 | AMD | 93-21-052 | 51-11-1302 | NEW | 93-21-052 | 51-11-1433 | NEW | 93-21-052 |
| 51-11-0625 | AMD-P | 93-16-113 | 51-11-1303 | NEW-P | 93-08-077 | 51-11-1434 | NEW-P | 93-08-077 |
| 51-11-0625 | AMD-S | 93-20-129 | 51-11-1303 | NEW-W | 93-08-084 | 51-11-1434 | NEW | 93-21-052 |
| 51-11-0626 | AMD-P | 93-16-113 | 51-11-1303 | NEW | 93-21-052 | 51-11-1435 | NEW-P | 93-08-077 |
| 51-11-0626 | AMD-S | 93-20-129 | 51-11-1310 | NEW-P | 93-08-077 | 51-11-1435 | NEW | 93-21-052 |
| 51-11-0627 | AMD-P | 93-16-113 | 51-11-1310 | NEW-C | 93-16-111 | 51-11-1436 | NEW-P | 93-08-077 |
| 51-11-0627 | AMD-S | 93-20-129 | 51-11-1310 | NEW | 93-21-052 | 51-11-1436 | NEW | 93-21-052 |
| 51-11-0628 | AMD-P | 93-16-113 | 51-11-1311 | NEW-P | 93-08-077 | 51-11-1437 | NEW-P | 93-08-077 |
| 51-11-0628 | AMD-S | 93-20-129 | 51-11-1311 | NEW-C | 93-16-111 | 51-11-1437 | NEW | 93-21-052 |
| 51-11-0629 | AMD-P | 93-16-113 | 51-11-1311 | NEW | 93-21-052 | 51-11-1438 | NEW | 93-21-052 |
| 51-11-0629 | AMD-S | 93-20-129 | 51-11-1312 | NEW-P | 93-08-077 | 51-11-1440 | NEW-P | 93-08-077 |
| 51-11-0630 | AMD-P | 93-16-113 | 51-11-1312 | NEW | 93-21-052 | 51-11-1440 | NEW | 93-21-052 |
| 51-11-0630 | AMD-S | 93-20-129 | 51-11-1313 | NEW-P | 93-08-077 | 51-11-1441 | NEW-P | 93-08-077 |
| 51-11-0631 | AMD-P | 93-08-077 | 51-11-1313 | NEW | 93-21-052 | 51-11-1441 | NEW | 93-21-052 |
| 51-11-0631 | AMD-W | 93-08-084 | 51-11-1314 | NEW-P | 93-08-077 | 51-11-1442 | NEW-P | 93-08-077 |
| 51-11-0631 | AMD | 93-21-052 | 51-11-1314 | NEW | 93-21-052 | 51-11-1442 | NEW | 93-21-052 |
| 51-11-0700 | AMD-P | 93-08-077 | 51-11-1320 | NEW-P | 93-08-077 | 51-11-1450 | NEW-P | 93-08-077 |
| 51-11-0700 | AMD-W | 93-21-060 | 51-11-1320 | NEW | 93-21-052 | 51-11-1450 | NEW | 93-21-052 |
| 51-11-1000 | AMD-P | 93-08-077 | 51-11-1321 | NEW-P | 93-08-077 | 51-11-1451 | NEW-P | 93-08-077 |
| 51-11-1000 | AMD-W | 93-21-060 | 51-11-1321 | NEW | 93-21-052 | 51-11-1451 | NEW | 93-21-052 |
| 51-11-1006 | AMD-P | 93-16-113 | 51-11-1322 | NEW-P | 93-08-077 | 51-11-1452 | NEW-P | 93-08-077 |
| 51-11-1006 | AMD-E | 93-20-106 | 51-11-1322 | NEW | 93-21-052 | 51-11-1452 | NEW | 93-21-052 |
| 51-11-1006 | AMD-S | 93-20-129 | 51-11-1323 | NEW-P | 93-08-077 | 51-11-1453 | NEW-P | 93-08-077 |
| 51-11-1100 | NEW-P | 93-08-077 | 51-11-1323 | NEW | 93-21-052 | 51-11-1453 | NEW | 93-21-052 |
| 51-11-1100 | NEW | 93-21-052 | 51-11-1330 | NEW-P | 93-08-077 | 51-11-1454 | NEW-P | 93-08-077 |
| 51-11-1101 | NEW-W | 93-08-084 | 51-11-1330 | NEW | 93-21-052 | 51-11-1454 | NEW-C | 93-16-111 |
| 51-11-1101 | NEW-E | 93-20-106 | 51-11-1331 | NEW-P | 93-08-077 | 51-11-1454 | NEW | 93-21-052 |
| 51-11-1102 | NEW-W | 93-08-084 | 51-11-1331 | NEW | 93-21-052 | 51-11-1501 | NEW-P | 93-08-077 |

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| 51-11-1501 | NEW | 93-21-052 | 51-11-99902 | NEW-S | 93-10-004 | 118-04-050 | REP | 93-23-005 |
| 51-11-1502 | NEW-W | 93-08-084 | 51-11-99902 | NEW | 93-21-052 | 118-04-060 | NEW-P | 93-15-087 |
| 51-11-1503 | NEW-W | 93-08-084 | 51-11-99903 | NEW-S | 93-10-004 | 118-04-060 | NEW | 93-23-005 |
| 51-11-1504 | NEW-W | 93-08-084 | 51-11-99903 | NEW | 93-21-052 | 118-04-070 | REP-P | 93-15-087 |
| 51-11-1505 | NEW-W | 93-08-084 | 51-11-99904 | NEW-S | 93-10-004 | 118-04-070 | REP | 93-23-005 |
| 51-11-1510 | NEW-P | 93-08-077 | 51-11-99904 | NEW | 93-21-052 | 118-04-080 | NEW-P | 93-15-087 |
| 51-11-1510 | NEW | 93-21-052 | 51-13-101 | AMD | 93-02-056 | 118-04-080 | NEW | 93-23-005 |
| 51-11-1511 | NEW-P | 93-08-077 | 51-13-202 | AMD | 93-02-056 | 118-04-090 | REP-P | 93-15-087 |
| 51-11-1511 | NEW | 93-21-052 | 51-13-300 | AMD | 93-02-056 | 118-04-090 | REP | 93-23-005 |
| 51-11-1512 | NEW-P | 93-08-077 | 51-13-302 | AMD | 93-02-056 | 118-04-100 | NEW-P | 93-15-087 |
| 51-11-1512 | NEW | 93-21-052 | 51-13-303 | AMD | 93-02-056 | 118-04-100 | NEW | 93-23-005 |
| 51-11-1513 | NEW-P | 93-08-077 | 51-13-304 | AMD | 93-02-056 | 118-04-110 | REP-P | 93-15-087 |
| 51-11-1513 | NEW-C | 93-16-111 | 51-13-401 | AMD | 93-02-056 | 118-04-110 | REP | 93-23-005 |
| 51-11-1513 | NEW | 93-21-052 | 51-13-402 | AMD | 93-02-056 | 118-04-120 | NEW-P | 93-15-087 |
| 51-11-1520 | NEW-P | 93-08-077 | 51-13-502 | AMD | 93-02-056 | 118-04-120 | NEW | 93-23-005 |
| 51-11-1520 | NEW | 93-21-052 | 51-13-503 | AMD | 93-02-056 | 118-04-130 | REP-P | 93-15-087 |
| 51-11-1521 | NEW-P | 93-08-077 | 55-01-001 | AMD-E | 93-14-089 | 118-04-130 | REP | 93-23-005 |
| 51-11-1521 | NEW | 93-21-052 | 55-01-010 | AMD-E | 93-14-089 | 118-04-140 | REP-P | 93-15-087 |
| 51-11-1522 | NEW-P | 93-08-077 | 55-01-010 | AMD-P | 93-18-102 | 118-04-140 | REP | 93-23-005 |
| 51-11-1522 | NEW | 93-21-052 | 55-01-010 | AMD-E | 93-22-042 | 118-04-150 | REP-P | 93-15-087 |
| 51-11-1530 | NEW-P | 93-08-077 | 55-01-020 | AMD-E | 93-14-089 | 118-04-150 | REP | 93-23-005 |
| 51-11-1530 | NEW | 93-21-052 | 55-01-020 | AMD-P | 93-18-102 | 118-04-160 | NEW-P | 93-15-087 |
| 51-11-1531 | NEW-P | 93-08-077 | 55-01-020 | AMD-E | 93-22-042 | 118-04-160 | NEW | 93-23-005 |
| 51-11-1531 | NEW | 93-21-052 | 55-01-030 | AMD-E | 93-14-089 | 118-04-170 | REP-P | 93-15-087 |
| 51-11-1532 | NEW-P | 93-08-077 | 55-01-030 | AMD-P | 93-18-102 | 118-04-170 | REP | 93-23-005 |
| 51-11-1532 | NEW-C | 93-16-111 | 55-01-030 | AMD-E | 93-22-042 | 118-04-180 | NEW-P | 93-15-087 |
| 51-11-1532 | NEW | 93-21-052 | 55-01-040 | AMD-E | 93-14-089 | 118-04-180 | NEW | 93-23-005 |
| 51-11-1601 | NEW-W | 93-08-084 | 55-01-040 | AMD-P | 93-18-102 | 118-04-190 | REP-P | 93-15-087 |
| 51-11-1602 | NEW-W | 93-08-084 | 55-01-040 | AMD-E | 93-22-042 | 118-04-190 | REP | 93-23-005 |
| 51-11-1603 | NEW-W | 93-08-084 | 55-01-050 | AMD-E | 93-14-089 | 118-04-200 | NEW-P | 93-15-087 |
| 51-11-1604 | NEW-W | 93-08-084 | 55-01-050 | AMD-P | 93-18-102 | 118-04-200 | NEW | 93-23-005 |
| 51-11-1605 | NEW-W | 93-08-084 | 55-01-050 | AMD-E | 93-22-042 | 118-04-210 | REP-P | 93-15-087 |
| 51-11-1606 | NEW-W | 93-08-084 | 55-01-060 | AMD-E | 93-14-089 | 118-04-210 | REP | 93-23-005 |
| 51-11-1607 | NEW-W | 93-08-084 | 55-01-060 | AMD-P | 93-18-102 | 118-04-220 | NEW-P | 93-15-087 |
| 51-11-1608 | NEW-W | 93-08-084 | 55-01-060 | AMD-E | 93-22-042 | 118-04-220 | NEW | 93-23-005 |
| 51-11-1701 | NEW-P | 93-08-077 | 55-01-070 | AMD-E | 93-14-089 | 118-04-230 | REP-P | 93-15-087 |
| 51-11-1701 | NEW-W | 93-08-084 | 55-01-070 | AMD-P | 93-18-102 | 118-04-230 | REP | 93-23-005 |
| 51-11-1701 | NEW | 93-21-052 | 55-01-070 | AMD-E | 93-22-042 | 118-04-240 | NEW-P | 93-15-087 |
| 51-11-1801 | NEW-W | 93-08-084 | 55-01-080 | AMD-E | 93-14-089 | 118-04-240 | NEW | 93-23-005 |
| 51-11-1901 | NEW-W | 93-08-084 | 55-01-080 | AMD-P | 93-18-102 | 118-04-250 | REP-P | 93-15-087 |
| 51-11-1902 | NEW-W | 93-08-084 | 67-35-030 | AMD-P | 93-07-117 | 118-04-250 | REP | 93-23-005 |
| 51-11-2000 | NEW-W | 93-08-084 | 67-35-030 | AMD | 93-10-067 | 118-04-260 | NEW-P | 93-15-087 |
| 51-11-2000 | NEW | 93-21-052 | 67-35-040 | AMD-P | 93-06-048 | 118-04-260 | NEW | 93-23-005 |
| 51-11-2001 | NEW-P | 93-08-077 | 67-35-040 | AMD | 93-09-013 | 118-04-270 | REP-P | 93-15-087 |
| 51-11-2001 | NEW-W | 93-08-084 | 67-35-055 | REP-P | 93-06-048 | 118-04-270 | REP | 93-23-005 |
| 51-11-2001 | NEW | 93-21-052 | 67-35-055 | REP | 93-09-013 | 118-04-280 | NEW-P | 93-15-087 |
| 51-11-2002 | NEW-P | 93-08-077 | 67-35-056 | REP-P | 93-06-048 | 118-04-280 | NEW | 93-23-005 |
| 51-11-2002 | NEW-W | 93-08-084 | 67-35-056 | REP | 93-09-013 | 118-04-290 | REP-P | 93-15-087 |
| 51-11-2002 | NEW | 93-21-052 | 82-50-021 | AMD-P | 93-19-148 | 118-04-290 | REP | 93-23-005 |
| 51-11-2003 | NEW-P | 93-08-077 | 83-50-021 | AMD | 93-24-041 | 118-04-300 | NEW-P | 93-15-087 |
| 51-11-2003 | NEW-W | 93-08-084 | 98-60-010 | NEW-P | 93-03-063 | 118-04-300 | NEW | 93-23-005 |
| 51-11-2003 | NEW | 93-21-052 | 98-60-010 | NEW | 93-07-040 | 118-04-320 | NEW-P | 93-15-087 |
| 51-11-2004 | NEW-P | 93-08-077 | 98-60-020 | NEW-P | 93-03-063 | 118-04-320 | NEW | 93-23-005 |
| 51-11-2004 | NEW-W | 93-08-084 | 98-60-020 | NEW | 93-07-040 | 118-04-340 | NEW-P | 93-15-087 |
| 51-11-2004 | NEW | 93-21-052 | 98-60-030 | NEW-P | 93-03-063 | 118-04-340 | NEW | 93-23-005 |
| 51-11-2005 | NEW-P | 93-08-077 | 98-60-030 | NEW | 93-07-040 | 118-04-360 | NEW-P | 93-15-087 |
| 51-11-2005 | NEW-W | 93-08-084 | 98-60-040 | NEW-P | 93-03-063 | 118-04-360 | NEW | 93-23-005 |
| 51-11-2005 | NEW | 93-21-052 | 98-60-040 | NEW | 93-07-040 | 118-04-380 | NEW-P | 93-15-087 |
| 51-11-2006 | NEW-P | 93-08-077 | 98-60-050 | NEW-P | 93-03-063 | 118-04-380 | NEW | 93-23-005 |
| 51-11-2006 | NEW-W | 93-08-084 | 98-60-050 | NEW | 93-07-040 | 118-04-400 | NEW-P | 93-15-087 |
| 51-11-2006 | NEW-C | 93-16-111 | 98-70-010 | AMD-P | 93-03-062 | 118-04-400 | NEW | 93-23-005 |
| 51-11-2006 | NEW | 93-21-052 | 98-70-010 | AMD | 93-07-041 | 118-04-420 | NEW-P | 93-15-087 |
| 51-11-2007 | NEW-P | 93-08-077 | 98-70-010 | AMD-P | 93-20-126 | 118-04-420 | NEW | 93-23-005 |
| 51-11-2007 | NEW-W | 93-08-084 | 98-70-010 | AMD | 94-01-117 | 131-16-045 | NEW-P | 93-18-032 |
| 51-11-2007 | NEW | 93-21-052 | 118-04-010 | REP-P | 93-15-087 | 131-16-045 | NEW | 93-22-008 |
| 51-11-2008 | NEW-P | 93-08-077 | 118-04-010 | REP | 93-23-005 | 131-16-091 | AMD-P | 93-10-103 |
| 51-11-2008 | NEW-W | 93-08-084 | 118-04-020 | NEW-P | 93-15-087 | 131-16-091 | AMD | 93-14-008 |
| 51-11-2008 | NEW | 93-21-052 | 118-04-020 | NEW | 93-23-005 | 131-16-092 | AMD-P | 93-10-103 |
| 51-11-2009 | NEW-P | 93-08-077 | 118-04-030 | REP-P | 93-15-087 | 131-16-092 | AMD | 93-14-008 |
| 51-11-2009 | NEW-W | 93-08-084 | 118-04-030 | REP | 93-23-005 | 131-16-093 | AMD-P | 93-10-103 |
| 51-11-2009 | NEW | 93-21-052 | 118-04-040 | NEW-P | 93-15-087 | 131-16-093 | AMD | 93-14-008 |
| 51-11-99901 | NEW-S | 93-10-004 | 118-04-040 | NEW | 93-23-005 | 131-46-010 | AMD-P | 93-24-100 |

TABLE

Table of WAC Sections Affected

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|------------|-------|-----------|------------|-------|-----------|------------|-------|-----------|
| 131-46-010 | AMD-W | 94-01-096 | 131-46-120 | AMD-P | 94-01-113 | 131-47-090 | NEW-E | 93-14-053 |
| 131-46-010 | AMD-P | 94-01-113 | 131-46-125 | NEW-P | 93-24-100 | 131-47-090 | NEW | 93-19-079 |
| 131-46-020 | AMD-P | 93-24-100 | 131-46-125 | NEW-W | 94-01-096 | 131-47-095 | NEW-E | 93-09-047 |
| 131-46-020 | AMD-W | 94-01-096 | 131-46-125 | NEW-P | 94-01-113 | 131-47-095 | NEW-P | 93-14-052 |
| 131-46-020 | AMD-P | 94-01-113 | 131-46-130 | NEW-P | 93-24-100 | 131-47-095 | NEW-E | 93-14-053 |
| 131-46-025 | AMD-P | 93-24-100 | 131-46-130 | NEW-W | 94-01-096 | 131-47-095 | NEW | 93-19-079 |
| 131-46-025 | AMD-W | 94-01-096 | 131-46-130 | NEW-P | 94-01-113 | 131-47-100 | NEW-E | 93-09-047 |
| 131-46-025 | AMD-P | 94-01-113 | 131-47-010 | NEW-E | 93-09-047 | 131-47-100 | NEW-P | 93-14-052 |
| 131-46-027 | NEW-P | 93-24-100 | 131-47-010 | NEW-P | 93-14-052 | 131-47-100 | NEW-E | 93-14-053 |
| 131-46-027 | NEW-W | 94-01-096 | 131-47-010 | NEW-E | 93-14-053 | 131-47-100 | NEW | 93-19-079 |
| 131-46-027 | NEW-P | 94-01-113 | 131-47-010 | NEW | 93-19-079 | 131-47-105 | NEW-E | 93-09-047 |
| 131-46-029 | NEW-P | 93-24-100 | 131-47-015 | NEW-E | 93-09-047 | 131-47-105 | NEW-P | 93-14-052 |
| 131-46-029 | NEW-W | 94-01-096 | 131-47-015 | NEW-P | 93-14-052 | 131-47-105 | NEW-E | 93-14-053 |
| 131-46-029 | NEW-P | 94-01-113 | 131-47-015 | NEW-E | 93-14-053 | 131-47-105 | NEW | 93-19-079 |
| 131-46-030 | AMD-P | 93-24-100 | 131-47-015 | NEW | 93-19-079 | 131-47-110 | NEW-E | 93-09-047 |
| 131-46-030 | AMD-W | 94-01-096 | 131-47-020 | NEW-E | 93-09-047 | 131-47-110 | NEW-P | 93-14-052 |
| 131-46-030 | AMD-P | 94-01-113 | 131-47-020 | NEW-P | 93-14-052 | 131-47-110 | NEW-E | 93-14-053 |
| 131-46-035 | AMD-P | 93-24-100 | 131-47-020 | NEW-E | 93-14-053 | 131-47-110 | NEW | 93-19-079 |
| 131-46-035 | AMD-W | 94-01-096 | 131-47-020 | NEW | 93-19-079 | 131-47-115 | NEW-E | 93-09-047 |
| 131-46-035 | AMD-P | 94-01-113 | 131-47-025 | NEW-E | 93-09-047 | 131-47-115 | NEW-P | 93-14-052 |
| 131-46-040 | AMD-P | 93-24-100 | 131-47-025 | NEW-P | 93-14-052 | 131-47-115 | NEW-E | 93-14-053 |
| 131-46-040 | AMD-W | 94-01-096 | 131-47-025 | NEW-E | 93-14-053 | 131-47-115 | NEW | 93-19-079 |
| 131-46-040 | AMD-P | 94-01-113 | 131-47-025 | NEW | 93-19-079 | 131-47-120 | NEW-E | 93-09-047 |
| 131-46-045 | AMD-P | 93-24-100 | 131-47-030 | NEW-E | 93-09-047 | 131-47-120 | NEW-P | 93-14-052 |
| 131-46-045 | AMD-W | 94-01-096 | 131-47-030 | NEW-P | 93-14-052 | 131-47-120 | NEW-E | 93-14-053 |
| 131-46-045 | AMD-P | 94-01-113 | 131-47-030 | NEW-E | 93-14-053 | 131-47-120 | NEW | 93-19-079 |
| 131-46-050 | AMD-P | 93-24-100 | 131-47-030 | NEW | 93-19-079 | 131-47-125 | NEW-E | 93-09-047 |
| 131-46-050 | AMD-W | 94-01-096 | 131-47-035 | NEW-E | 93-09-047 | 131-47-125 | NEW-P | 93-14-052 |
| 131-46-050 | AMD-P | 94-01-113 | 131-47-035 | NEW-P | 93-14-052 | 131-47-125 | NEW-E | 93-14-053 |
| 131-46-055 | AMD-P | 93-24-100 | 131-47-035 | NEW-E | 93-14-053 | 131-47-125 | NEW | 93-19-079 |
| 131-46-055 | AMD-W | 94-01-096 | 131-47-035 | NEW | 93-19-079 | 131-47-130 | NEW-E | 93-09-047 |
| 131-46-055 | AMD-P | 94-01-113 | 131-47-040 | NEW-E | 93-09-047 | 131-47-130 | NEW-P | 93-14-052 |
| 131-46-060 | AMD-P | 93-24-100 | 131-47-040 | NEW-P | 93-14-052 | 131-47-130 | NEW-E | 93-14-053 |
| 131-46-060 | AMD-W | 94-01-096 | 131-47-040 | NEW-E | 93-14-053 | 131-47-130 | NEW | 93-19-079 |
| 131-46-060 | AMD-P | 94-01-113 | 131-47-040 | NEW | 93-19-079 | 131-47-135 | NEW-E | 93-09-047 |
| 131-46-065 | AMD-P | 93-24-100 | 131-47-045 | NEW-E | 93-09-047 | 131-47-135 | NEW-P | 93-14-052 |
| 131-46-065 | AMD-W | 94-01-096 | 131-47-045 | NEW-P | 93-14-052 | 131-47-135 | NEW-E | 93-14-053 |
| 131-46-065 | AMD-P | 94-01-113 | 131-47-045 | NEW-E | 93-14-053 | 131-47-135 | NEW | 93-19-079 |
| 131-46-070 | AMD-P | 93-24-100 | 131-47-045 | NEW | 93-19-079 | 131-47-140 | NEW-E | 93-09-047 |
| 131-46-070 | AMD-W | 94-01-096 | 131-47-050 | NEW-E | 93-09-047 | 131-47-140 | NEW-P | 93-14-052 |
| 131-46-070 | AMD-P | 94-01-113 | 131-47-050 | NEW-P | 93-14-052 | 131-47-140 | NEW-E | 93-14-053 |
| 131-46-075 | AMD-P | 93-24-100 | 131-47-050 | NEW-E | 93-14-053 | 131-47-140 | NEW | 93-19-079 |
| 131-46-075 | AMD-W | 94-01-096 | 131-47-050 | NEW | 93-19-079 | 131-47-145 | NEW-E | 93-09-047 |
| 131-46-075 | AMD-P | 94-01-113 | 131-47-055 | NEW-E | 93-09-047 | 131-47-145 | NEW-P | 93-14-052 |
| 131-46-077 | NEW-P | 93-24-100 | 131-47-055 | NEW-P | 93-14-052 | 131-47-145 | NEW-E | 93-14-053 |
| 131-46-077 | NEW-W | 94-01-096 | 131-47-055 | NEW-E | 93-14-053 | 131-47-145 | NEW | 93-19-079 |
| 131-46-077 | NEW-P | 94-01-113 | 131-47-055 | NEW | 93-19-079 | 131-47-150 | NEW-E | 93-09-047 |
| 131-46-080 | AMD-P | 93-24-100 | 131-47-060 | NEW-E | 93-09-047 | 131-47-150 | NEW-P | 93-14-052 |
| 131-46-080 | AMD-W | 94-01-096 | 131-47-060 | NEW-P | 93-14-052 | 131-47-150 | NEW-E | 93-14-053 |
| 131-46-080 | AMD-P | 94-01-113 | 131-47-060 | NEW-E | 93-14-053 | 131-47-150 | NEW | 93-19-079 |
| 131-46-085 | AMD-P | 93-24-100 | 131-47-060 | NEW | 93-19-079 | 131-47-155 | NEW-E | 93-09-047 |
| 131-46-085 | AMD-W | 94-01-096 | 131-47-065 | NEW-E | 93-09-047 | 131-47-155 | NEW-P | 93-14-052 |
| 131-46-085 | AMD-P | 94-01-113 | 131-47-065 | NEW-P | 93-14-052 | 131-47-155 | NEW-E | 93-14-053 |
| 131-46-090 | AMD-P | 93-24-100 | 131-47-065 | NEW-E | 93-14-053 | 131-47-155 | NEW | 93-19-079 |
| 131-46-090 | AMD-W | 94-01-096 | 131-47-065 | NEW | 93-19-079 | 131-47-160 | NEW-E | 93-09-047 |
| 131-46-090 | AMD-P | 94-01-113 | 131-47-070 | NEW-E | 93-09-047 | 131-47-160 | NEW-P | 93-14-052 |
| 131-46-095 | AMD-P | 93-24-100 | 131-47-070 | NEW-P | 93-14-052 | 131-47-160 | NEW-E | 93-14-053 |
| 131-46-095 | AMD-W | 94-01-096 | 131-47-070 | NEW-E | 93-14-053 | 131-47-160 | NEW | 93-19-079 |
| 131-46-095 | AMD-P | 94-01-113 | 131-47-070 | NEW | 93-19-079 | 137-47-165 | NEW-E | 93-09-047 |
| 131-46-100 | AMD-P | 93-24-100 | 131-47-075 | NEW-E | 93-09-047 | 131-47-165 | NEW-P | 93-14-052 |
| 131-46-100 | AMD-W | 94-01-096 | 131-47-075 | NEW-P | 93-14-052 | 131-47-165 | NEW-E | 93-14-053 |
| 131-46-100 | AMD-P | 94-01-113 | 131-47-075 | NEW-E | 93-14-053 | 131-47-165 | NEW | 93-19-079 |
| 131-46-105 | AMD-P | 93-24-100 | 131-47-075 | NEW | 93-19-079 | 131-48-010 | NEW-E | 93-14-010 |
| 131-46-105 | AMD-W | 94-01-096 | 131-47-080 | NEW-E | 93-09-047 | 131-48-010 | NEW-P | 93-18-067 |
| 131-46-105 | AMD-P | 94-01-113 | 131-47-080 | NEW-P | 93-14-052 | 131-48-010 | NEW | 93-22-006 |
| 131-46-110 | AMD-P | 93-24-100 | 131-47-080 | NEW-E | 93-14-053 | 131-48-020 | NEW-E | 93-14-010 |
| 131-46-110 | AMD-W | 94-01-096 | 131-47-080 | NEW | 93-19-079 | 131-48-020 | NEW-P | 93-18-067 |
| 131-46-110 | AMD-P | 94-01-113 | 131-47-085 | NEW-E | 93-09-047 | 131-48-020 | NEW | 93-22-006 |
| 131-46-115 | AMD-P | 93-24-100 | 131-47-085 | NEW-P | 93-14-052 | 131-48-030 | NEW-E | 93-14-010 |
| 131-46-115 | AMD-W | 94-01-096 | 131-47-085 | NEW-E | 93-14-053 | 131-48-030 | NEW-P | 93-18-067 |
| 131-46-115 | AMD-P | 94-01-113 | 131-47-085 | NEW | 93-19-079 | 131-48-030 | NEW | 93-22-006 |
| 131-46-120 | AMD-P | 93-24-100 | 131-47-090 | NEW-E | 93-09-047 | 131-48-040 | NEW-E | 93-14-010 |
| 131-46-120 | AMD-W | 94-01-096 | 131-47-090 | NEW-P | 93-14-052 | 131-48-040 | NEW-P | 93-18-067 |

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| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
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| 131-48-040 | NEW | 93-22-006 | 132D-130-010 | REP-P | 93-19-118 | 132G-116-130 | REP | 93-02-063 |
| 131-48-050 | NEW-E | 93-14-010 | 132D-130-010 | REP | 94-01-028 | 132G-116-135 | NEW | 93-02-063 |
| 131-48-050 | NEW-P | 93-18-067 | 132D-130-020 | REP-P | 93-19-118 | 132G-116-140 | REP | 93-02-063 |
| 131-48-050 | NEW | 93-22-006 | 132D-130-020 | REP | 94-01-028 | 132G-116-145 | NEW | 93-02-063 |
| 131-48-060 | NEW-E | 93-14-010 | 132D-130-030 | REP-P | 93-19-118 | 132G-116-150 | REP | 93-02-063 |
| 131-48-060 | NEW-P | 93-18-067 | 132D-130-030 | REP | 94-01-028 | 132G-116-155 | NEW | 93-02-063 |
| 131-48-060 | NEW | 93-22-006 | 132D-130-035 | REP-P | 93-19-118 | 132G-116-160 | REP | 93-02-063 |
| 131-48-070 | NEW-E | 93-14-010 | 132D-130-035 | REP | 94-01-028 | 132G-116-170 | REP | 93-02-063 |
| 131-48-070 | NEW-P | 93-18-067 | 132D-130-040 | REP-P | 93-19-118 | 132G-116-175 | NEW | 93-02-063 |
| 131-48-070 | NEW | 93-22-006 | 132D-130-040 | REP | 94-01-028 | 132G-116-180 | REP | 93-02-063 |
| 131-48-080 | NEW-E | 93-14-010 | 132D-130-045 | REP-P | 93-19-118 | 132G-116-185 | NEW | 93-02-063 |
| 131-48-080 | NEW-P | 93-18-067 | 132D-130-045 | REP | 94-01-028 | 132G-116-190 | REP | 93-02-063 |
| 131-48-080 | NEW | 93-22-006 | 132D-130-050 | REP-P | 93-19-118 | 132G-116-195 | NEW | 93-02-063 |
| 131-48-090 | NEW-E | 93-14-010 | 132D-130-050 | REP | 94-01-028 | 132G-116-200 | REP | 93-02-063 |
| 131-48-090 | NEW-P | 93-18-067 | 132D-130-055 | REP-P | 93-19-118 | 132G-116-205 | NEW | 93-02-063 |
| 131-48-090 | NEW | 93-22-006 | 132D-130-055 | REP | 94-01-028 | 132G-116-210 | REP | 93-02-063 |
| 131-48-100 | NEW-E | 93-14-010 | 132D-130-060 | REP-P | 93-19-118 | 132G-116-215 | NEW | 93-02-063 |
| 131-48-100 | NEW-P | 93-18-067 | 132D-130-060 | REP | 94-01-028 | 132G-116-220 | REP | 93-02-063 |
| 131-48-100 | NEW | 93-22-006 | 132D-130-070 | REP-P | 93-19-118 | 132G-116-225 | NEW | 93-02-063 |
| 131-48-110 | NEW-E | 93-14-010 | 132D-130-070 | REP | 94-01-028 | 132G-116-230 | REP | 93-02-063 |
| 131-48-110 | NEW-P | 93-18-067 | 132D-130-075 | REP-P | 93-19-118 | 132G-116-235 | NEW | 93-02-063 |
| 131-48-110 | NEW | 93-22-006 | 132D-130-075 | REP | 94-01-028 | 132G-116-240 | REP | 93-02-063 |
| 131-48-120 | NEW-E | 93-14-010 | 132D-130-080 | REP-P | 93-19-118 | 132G-116-245 | NEW | 93-02-063 |
| 131-48-120 | NEW-P | 93-18-067 | 132D-130-080 | REP | 94-01-028 | 132G-116-250 | REP | 93-02-063 |
| 131-48-120 | NEW | 93-22-006 | 132D-130-085 | REP-P | 93-19-118 | 132G-116-255 | NEW | 93-02-063 |
| 131-48-130 | NEW-E | 93-14-010 | 132D-130-085 | REP | 94-01-028 | 132G-116-260 | REP | 93-02-063 |
| 131-48-130 | NEW-P | 93-18-067 | 132D-130-090 | REP-P | 93-19-118 | 132G-116-265 | NEW | 93-02-063 |
| 131-48-130 | NEW | 93-22-006 | 132D-130-090 | REP | 94-01-028 | 132G-116-270 | AMD | 93-02-063 |
| 131-48-140 | NEW-E | 93-14-010 | 132D-130-095 | REP-P | 93-19-118 | 132G-116-275 | NEW | 93-02-063 |
| 131-48-140 | NEW-P | 93-18-067 | 132D-130-095 | REP | 94-01-028 | 132G-116-280 | REP | 93-02-063 |
| 131-48-140 | NEW | 93-22-006 | 132D-130-100 | REP-P | 93-19-118 | 132G-116-285 | NEW | 93-02-063 |
| 132D-120-040 | AMD-P | 93-19-118 | 132D-130-100 | REP | 94-01-028 | 132G-116-290 | REP | 93-02-063 |
| 132D-120-040 | AMD | 94-01-028 | 132D-140-090 | NEW-P | 93-19-118 | 132G-116-295 | NEW | 93-02-063 |
| 132D-120-230 | AMD-P | 93-19-118 | 132D-140-090 | NEW | 94-01-028 | 132G-116-300 | REP | 93-02-063 |
| 132D-120-230 | AMD | 94-01-028 | 132D-280-010 | REP-P | 93-19-118 | 132G-116-305 | NEW | 93-02-063 |
| 132D-120-260 | AMD-P | 93-19-118 | 132D-280-010 | REP | 94-01-028 | 132G-116-310 | REP | 93-02-063 |
| 132D-120-260 | AMD | 94-01-028 | 132D-280-020 | REP-P | 93-19-118 | 132G-116-315 | NEW | 93-02-063 |
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| 132D-120-270 | AMD | 94-01-028 | 132D-280-025 | REP-P | 93-19-118 | 132G-116-330 | REP | 93-02-063 |
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| 132D-125-010 | NEW | 94-01-028 | 132D-280-030 | REP-P | 93-19-118 | 132G-116-350 | REP | 93-02-063 |
| 132D-125-020 | NEW-P | 93-19-118 | 132D-280-030 | REP | 94-01-028 | 132H-116-315 | AMD-P | 93-08-067 |
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| 132D-125-080 | NEW-P | 93-19-118 | 132G-116-060 | REP | 93-02-063 | 132H-160-070 | REP-P | 94-01-091 |
| 132D-125-080 | NEW | 94-01-028 | 132G-116-080 | AMD | 93-02-063 | 132H-160-080 | REP-P | 94-01-091 |
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| 132H-160-185 | NEW | 93-16-051 | 132J-125-105 | NEW | 93-04-022 | 132N-156-510 | AMD-P | 93-15-081 |
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| 132H-160-320 | REP-P | 94-01-091 | 132J-125-115 | NEW | 93-04-022 | 132N-156-520 | AMD-P | 93-15-081 |
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| 132H-160-350 | REP-P | 94-01-091 | 132J-125-125 | NEW | 93-04-022 | 132N-156-530 | AMD-P | 93-15-081 |
| 132H-160-390 | REP-P | 94-01-091 | 132J-125-130 | NEW | 93-04-022 | 132N-156-530 | AMD | 93-20-080 |
| 132H-160-400 | REP-P | 94-01-091 | 132J-125-135 | NEW | 93-04-022 | 132N-156-540 | AMD-P | 93-15-081 |
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| 132J-120-100 | REP | 93-04-022 | 132N-156-320 | AMD | 93-20-080 | 132R-190-030 | AMD-P | 94-01-049 |
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| 132J-125-030 | NEW | 93-04-022 | 132N-156-420 | AMD | 93-20-080 | 132R-190-080 | AMD-P | 94-01-049 |
| 132J-125-055 | NEW | 93-04-022 | 132N-156-430 | AMD-P | 93-15-081 | 132R-190-090 | AMD-P | 94-01-049 |
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| 132T-20-060 | REP | 93-19-046 | 136-320-010 | AMD | 93-14-003 | 162-18-030 | REP-P | 93-15-122 |
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| 132T-20-070 | REP | 93-19-046 | 136-320-020 | AMD | 93-14-003 | 162-18-050 | REP-P | 93-15-122 |
| 132T-20-075 | REP-P | 93-15-079 | 136-320-030 | AMD-P | 93-07-045 | 162-18-060 | REP-P | 93-15-122 |
| 132T-20-075 | REP | 93-19-046 | 136-320-030 | AMD | 93-14-003 | 162-18-070 | REP-P | 93-15-122 |
| 132T-20-090 | REP-P | 93-15-079 | 136-320-040 | AMD-P | 93-07-045 | 162-18-080 | REP-P | 93-15-122 |
| 132T-20-090 | REP | 93-19-046 | 136-320-040 | AMD | 93-14-003 | 162-18-090 | REP-P | 93-15-122 |
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| 132T-20-140 | REP | 93-19-046 | 137-95-020 | NEW | 93-19-029 | 162-22-080 | AMD-P | 93-15-122 |
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| 132T-20-190 | REP-P | 93-15-079 | 137-95-070 | NEW | 93-19-029 | 162-26-020 | AMD-P | 93-15-122 |
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| 132T-20-200 | REP | 93-19-046 | 137-95-100 | NEW | 93-19-029 | 162-26-050 | AMD-P | 93-15-122 |
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| 180-51-055 | AMD | 93-04-115 | 180-96-070 | REP-P | 93-24-112 | 192-10-170 | REP-P | 93-17-012 |
| 180-51-075 | AMD-P | 93-23-058 | 180-96-075 | REP-P | 93-24-112 | 192-10-170 | REP | 93-20-037 |
| 180-51-100 | AMD | 93-04-115 | 182-08-160 | AMD-E | 93-17-001 | 192-10-180 | REP-P | 93-17-012 |
| 180-51-105 | AMD-P | 93-23-057 | 182-08-160 | AMD-P | 93-19-047 | 192-10-180 | REP | 93-20-037 |
| 180-72-040 | AMD-E | 93-14-009 | 182-08-160 | AMD | 93-23-065 | 192-10-190 | REP-P | 93-17-012 |
| 180-72-040 | AMD-P | 93-18-068 | 182-08-175 | NEW-E | 93-17-001 | 192-10-190 | REP | 93-20-037 |
| 180-72-040 | AMD | 93-22-007 | 182-08-175 | NEW-P | 93-19-047 | 192-10-200 | REP-P | 93-17-012 |
| 180-72-045 | AMD-E | 93-14-009 | 182-08-175 | NEW | 93-23-065 | 192-10-200 | REP | 93-20-037 |
| 180-72-045 | AMD-P | 93-18-068 | 182-08-190 | AMD-E | 93-17-001 | 192-10-210 | REP-P | 93-17-012 |
| 180-72-045 | AMD | 93-22-007 | 182-08-190 | AMD-P | 93-19-047 | 192-10-210 | REP | 93-20-037 |
| 180-72-050 | AMD-E | 93-14-009 | 182-08-190 | AMD | 93-23-065 | 192-10-220 | REP-P | 93-17-012 |
| 180-72-050 | AMD-P | 93-18-068 | 182-12-110 | AMD-E | 93-17-091 | 192-10-220 | REP | 93-20-037 |
| 180-72-050 | AMD | 93-22-007 | 182-12-110 | AMD-E | 93-24-104 | 192-10-230 | REP-P | 93-17-012 |
| 180-72-060 | AMD-E | 93-14-009 | 182-12-111 | AMD-E | 93-17-091 | 192-10-230 | REP | 93-20-037 |
| 180-72-060 | AMD-P | 93-18-068 | 182-12-111 | AMD-E | 93-24-104 | 192-10-240 | REP-P | 93-17-012 |
| 180-72-060 | AMD | 93-22-007 | 182-12-115 | AMD-E | 93-17-091 | 192-10-240 | REP | 93-20-037 |
| 180-72-065 | AMD-E | 93-14-009 | 182-12-115 | AMD-E | 93-24-104 | 192-10-250 | REP-P | 93-17-012 |
| 180-72-065 | AMD-P | 93-18-068 | 182-12-122 | AMD-E | 93-17-091 | 192-10-250 | REP | 93-20-037 |
| 180-72-065 | AMD | 93-22-007 | 182-12-122 | AMD-E | 93-24-104 | 192-10-265 | REP-P | 93-17-012 |
| 180-72-070 | AMD-E | 93-14-009 | 182-14-010 | NEW-E | 93-18-059 | 192-10-265 | REP | 93-20-037 |
| 180-72-070 | AMD-P | 93-18-068 | 182-14-010 | NEW-E | 93-24-103A | 192-10-280 | REP-P | 93-17-012 |
| 180-72-070 | AMD | 93-22-007 | 182-14-020 | NEW-E | 93-18-059 | 192-10-280 | REP | 93-20-037 |
| 180-78-010 | AMD-P | 93-04-120 | 182-14-020 | NEW-E | 93-24-103A | 192-10-290 | REP-P | 93-17-012 |
| 180-78-010 | AMD | 93-07-101 | 182-14-030 | NEW-E | 93-18-059 | 192-10-290 | REP | 93-20-037 |
| 180-78-191 | REP-P | 93-20-094 | 182-14-030 | NEW-E | 93-24-103A | 192-10-300 | REP-P | 93-17-012 |
| 180-78-191 | REP | 94-01-102 | 182-14-040 | NEW-E | 93-18-059 | 192-10-300 | REP | 93-20-037 |
| 180-78-196 | REP-P | 93-20-094 | 182-14-040 | NEW-E | 93-24-103A | 192-10-310 | REP-P | 93-17-012 |
| 180-78-196 | REP | 94-01-102 | 182-14-050 | NEW-E | 93-18-059 | 192-10-310 | REP | 93-20-037 |
| 180-79-010 | AMD-P | 93-04-120 | 182-14-050 | NEW-E | 93-24-103A | 192-10-330 | REP-P | 93-17-012 |
| 180-79-010 | AMD | 93-07-101 | 182-14-060 | NEW-E | 93-18-059 | 192-10-330 | REP | 93-20-037 |
| 180-79-065 | AMD-P | 93-20-095 | 182-14-060 | NEW-E | 93-24-103A | 192-12-141 | AMD-P | 93-07-086 |
| 180-79-065 | AMD | 94-01-101 | 182-14-070 | NEW-E | 93-18-059 | 192-12-141 | AMD | 93-10-025 |
| 180-79-115 | AMD-P | 93-20-095 | 182-14-070 | NEW-E | 93-24-103A | 192-12-158 | REP-P | 93-17-012 |
| 180-79-115 | AMD | 94-01-101 | 182-14-080 | NEW-E | 93-18-059 | 192-12-158 | REP | 93-20-037 |
| 180-79-120 | AMD-P | 93-20-095 | 182-14-080 | NEW-E | 93-24-103A | 192-12-180 | AMD-P | 93-13-137 |
| 180-79-120 | AMD | 94-01-101 | 182-14-090 | NEW-E | 93-18-059 | 192-12-180 | AMD | 93-16-053 |
| 180-79-124 | NEW-P | 93-20-095 | 182-14-090 | NEW-E | 93-24-103A | 192-12-182 | AMD-P | 93-13-137 |
| 180-79-124 | NEW | 94-01-101 | 182-14-100 | NEW-E | 93-18-059 | 192-12-182 | AMD | 93-16-053 |
| 180-79-125 | AMD-P | 93-20-095 | 182-14-100 | NEW-E | 93-24-103A | 192-12-184 | AMD-P | 93-13-137 |
| 180-79-125 | AMD | 94-01-101 | 192-10-010 | REP-P | 93-17-012 | 192-12-184 | AMD | 93-16-053 |
| 180-79-126 | NEW-P | 93-20-095 | 192-10-010 | REP | 93-20-037 | 192-12-186 | AMD-P | 93-13-137 |
| 180-79-126 | NEW | 94-01-101 | 192-10-015 | REP-P | 93-17-012 | 192-12-186 | AMD | 93-16-053 |
| 180-79-236 | AMD | 93-05-007 | 192-10-015 | REP | 93-20-037 | 192-16-070 | NEW-E | 93-13-007 |
| 180-79-245 | AMD-P | 93-20-095 | 192-10-020 | REP-P | 93-17-012 | 192-16-070 | NEW-P | 93-15-115 |
| 180-79-245 | AMD | 94-01-101 | 192-10-020 | REP | 93-20-037 | 192-30-010 | REP-P | 93-17-012 |
| 180-79-247 | NEW-P | 93-20-095 | 192-10-030 | REP-P | 93-17-012 | 192-30-010 | REP | 93-20-037 |
| 180-79-247 | NEW | 94-01-101 | 192-10-030 | REP | 93-20-037 | 192-30-020 | REP-P | 93-17-012 |
| 180-79-303 | AMD-P | 93-20-095 | 192-10-040 | REP-P | 93-17-012 | 192-30-020 | REP | 93-20-037 |
| 180-79-303 | AMD | 94-01-101 | 192-10-040 | REP | 93-20-037 | 192-30-030 | REP-P | 93-17-012 |
| 180-85-025 | AMD-P | 93-20-093 | 192-10-050 | REP-P | 93-17-012 | 192-30-030 | REP | 93-20-037 |
| 180-85-025 | AMD | 94-01-104 | 192-10-050 | REP | 93-20-037 | 192-30-040 | REP-P | 93-17-012 |
| 180-87-001 | REP-P | 93-17-077 | 192-10-060 | REP-P | 93-17-012 | 192-30-040 | REP | 93-20-037 |
| 180-87-001 | REP | 93-20-068 | 192-10-060 | REP | 93-20-037 | 192-30-100 | REP-P | 93-17-012 |
| 180-95-010 | AMD-P | 93-23-057 | 192-10-070 | REP-P | 93-17-012 | 192-30-100 | REP | 93-20-037 |
| 180-95-020 | AMD-P | 93-23-057 | 192-10-070 | REP | 93-20-037 | 192-30-200 | REP-P | 93-17-012 |
| 180-95-030 | AMD-P | 93-23-057 | 192-10-080 | REP-P | 93-17-012 | 192-30-200 | REP | 93-20-037 |
| 180-95-040 | AMD-P | 93-23-057 | 192-10-080 | REP | 93-20-037 | 192-30-210 | REP-P | 93-17-012 |
| 180-95-050 | AMD-P | 93-23-057 | 192-10-090 | REP-P | 93-17-012 | 192-30-210 | REP | 93-20-037 |
| 180-95-060 | AMD-P | 93-23-057 | 192-10-090 | REP | 93-20-037 | 192-30-220 | REP-P | 93-17-012 |
| 180-96-005 | AMD-P | 93-24-112 | 192-10-100 | REP-P | 93-17-012 | 192-30-220 | REP | 93-20-037 |
| 180-96-010 | AMD-P | 93-24-112 | 192-10-100 | REP | 93-20-037 | 192-30-230 | REP-P | 93-17-012 |
| 180-96-015 | REP-P | 93-24-112 | 192-10-110 | REP-P | 93-17-012 | 192-30-230 | REP | 93-20-037 |
| 180-96-025 | REP-P | 93-24-112 | 192-10-110 | REP | 93-20-037 | 192-34-010 | NEW-P | 93-24-119 |
| 180-96-030 | REP-P | 93-24-112 | 192-10-120 | REP-P | 93-17-012 | 192-34-015 | NEW-P | 93-24-119 |
| 180-96-035 | AMD-P | 93-24-112 | 192-10-120 | REP | 93-20-037 | 192-34-020 | NEW-P | 93-24-119 |
| 180-96-045 | AMD-P | 93-24-112 | 192-10-130 | REP-P | 93-17-012 | 192-34-025 | NEW-P | 93-24-119 |
| 180-96-048 | NEW-P | 93-24-112 | 192-10-130 | REP | 93-20-037 | 194-10-030 | AMD | 93-02-033 |
| 180-96-050 | AMD-P | 93-24-112 | 192-10-140 | REP-P | 93-17-012 | 194-10-100 | AMD | 93-02-033 |
| 180-96-053 | NEW-P | 93-24-112 | 192-10-140 | REP | 93-20-037 | 194-10-110 | AMD | 93-02-033 |
| 180-96-055 | REP-P | 93-24-112 | 192-10-150 | REP-P | 93-17-012 | 194-10-130 | AMD | 93-02-033 |
| 180-96-058 | NEW-P | 93-24-112 | 192-10-150 | REP | 93-20-037 | 194-10-140 | AMD | 93-02-033 |
| 180-96-060 | REP-P | 93-24-112 | 192-10-160 | REP-P | 93-17-012 | 196-24-041 | NEW-P | 93-09-024 |
| 180-96-065 | REP-P | 93-24-112 | 192-10-160 | REP | 93-20-037 | | | |

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| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|-------------|-------|-----------|--------------|-------|-----------|------------|-------|-----------|
| 196-24-041 | NEW | 93-13-064 | 212-14-005 | REP | 93-05-032 | 212-26-070 | REP-E | 93-04-061 |
| 196-24-097 | NEW-P | 93-09-022 | 212-14-010 | REP-E | 93-04-061 | 212-26-070 | REP | 93-05-032 |
| 196-24-097 | NEW | 93-13-065 | 212-14-010 | REP | 93-05-032 | 212-26-075 | REP-E | 93-04-061 |
| 196-24-098 | NEW-P | 93-09-023 | 212-14-015 | REP-E | 93-04-061 | 212-26-075 | REP | 93-05-032 |
| 196-24-098 | NEW | 93-13-066 | 212-14-015 | REP | 93-05-032 | 212-26-080 | REP-E | 93-04-061 |
| 196-26-020 | AMD-P | 93-07-111 | 212-14-020 | REP-E | 93-04-061 | 212-26-080 | REP | 93-05-032 |
| 196-26-020 | AMD | 93-10-057 | 212-14-020 | REP | 93-05-032 | 212-26-085 | REP-E | 93-04-061 |
| 204-10-120 | AMD-P | 93-05-029 | 212-14-025 | REP-E | 93-04-061 | 212-26-085 | REP | 93-05-032 |
| 204-10-120 | AMD | 93-11-018 | 212-14-025 | REP | 93-05-032 | 212-26-090 | REP-E | 93-04-061 |
| 204-30-010 | REP-P | 93-16-067 | 212-14-030 | REP-E | 93-04-061 | 212-26-090 | REP | 93-05-032 |
| 204-30-020 | REP-P | 93-16-067 | 212-14-030 | REP | 93-05-032 | 212-26-095 | REP-E | 93-04-061 |
| 204-30-030 | REP-P | 93-16-067 | 212-14-035 | REP-E | 93-04-061 | 212-26-095 | REP | 93-05-032 |
| 204-30-040 | REP-P | 93-16-067 | 212-14-035 | REP | 93-05-032 | 212-26-100 | REP-E | 93-04-061 |
| 204-30-050 | REP-P | 93-16-067 | 212-14-040 | REP-E | 93-04-061 | 212-26-100 | REP | 93-05-032 |
| 204-30-060 | REP-P | 93-16-067 | 212-14-040 | REP | 93-05-032 | 212-26-105 | REP-E | 93-04-061 |
| 204-30-070 | REP-P | 93-16-067 | 212-14-045 | REP-E | 93-04-061 | 212-26-105 | REP | 93-05-032 |
| 204-30-080 | REP-P | 93-16-067 | 212-14-045 | REP | 93-05-032 | 212-28-001 | REP-E | 93-04-061 |
| 204-44-040 | NEW-P | 93-05-028 | 212-14-050 | REP-E | 93-04-061 | 212-28-001 | REP | 93-05-032 |
| 204-44-040 | NEW | 93-11-017 | 212-14-050 | REP | 93-05-032 | 212-28-010 | REP-E | 93-04-061 |
| 204-74A-050 | AMD-P | 93-20-034 | 212-14-055 | REP-E | 93-04-061 | 212-28-010 | REP | 93-05-032 |
| 204-74A-050 | AMD | 94-01-179 | 212-14-055 | REP | 93-05-032 | 212-28-015 | REP-E | 93-04-061 |
| 204-82A-070 | AMD-P | 93-10-002 | 212-14-060 | REP-E | 93-04-061 | 212-28-015 | REP | 93-05-032 |
| 204-82A-070 | AMD | 93-15-075 | 212-14-060 | REP | 93-05-032 | 212-28-020 | REP-E | 93-04-061 |
| 204-84-010 | REP-P | 93-05-029 | 212-14-070 | REP-E | 93-04-061 | 212-28-020 | REP | 93-05-032 |
| 204-84-010 | REP | 93-11-018 | 212-14-070 | REP | 93-05-032 | 212-28-025 | REP-E | 93-04-061 |
| 204-84-020 | REP-P | 93-05-029 | 212-14-080 | REP-E | 93-04-061 | 212-28-025 | REP | 93-05-032 |
| 204-84-020 | REP | 93-11-018 | 212-14-080 | REP | 93-05-032 | 212-28-030 | REP-E | 93-04-061 |
| 204-84-030 | REP-P | 93-05-029 | 212-14-090 | REP-E | 93-04-061 | 212-28-030 | REP | 93-05-032 |
| 204-84-030 | REP | 93-11-018 | 212-14-090 | REP | 93-05-032 | 212-28-035 | REP-E | 93-04-061 |
| 204-84-040 | REP-P | 93-05-029 | 212-14-100 | REP-E | 93-04-061 | 212-28-035 | REP | 93-05-032 |
| 204-84-040 | REP | 93-11-018 | 212-14-100 | REP | 93-05-032 | 212-28-040 | REP-E | 93-04-061 |
| 204-84-050 | REP-P | 93-05-029 | 212-14-105 | REP-E | 93-04-061 | 212-28-040 | REP | 93-05-032 |
| 204-84-050 | REP | 93-11-018 | 212-14-105 | REP | 93-05-032 | 212-28-045 | REP-E | 93-04-061 |
| 204-84-060 | REP-P | 93-05-029 | 212-14-110 | REP-E | 93-04-061 | 212-28-045 | REP | 93-05-032 |
| 204-84-060 | REP | 93-11-018 | 212-14-110 | REP | 93-05-032 | 212-28-050 | REP-E | 93-04-061 |
| 204-84-070 | REP-P | 93-05-029 | 212-14-115 | REP-E | 93-04-061 | 212-28-050 | REP | 93-05-032 |
| 204-84-070 | REP | 93-11-018 | 212-14-115 | REP | 93-05-032 | 212-28-055 | REP-E | 93-04-061 |
| 204-84-080 | REP-P | 93-05-029 | 212-14-120 | REP-E | 93-04-061 | 212-28-055 | REP | 93-05-032 |
| 204-84-080 | REP | 93-11-018 | 212-14-120 | REP | 93-05-032 | 212-28-060 | REP-E | 93-04-061 |
| 204-84-090 | REP-P | 93-05-029 | 212-14-12001 | REP-E | 93-04-061 | 212-28-060 | REP | 93-05-032 |
| 204-84-090 | REP | 93-11-018 | 212-14-12001 | REP | 93-05-032 | 212-28-065 | REP-E | 93-04-061 |
| 204-84-100 | REP-P | 93-05-029 | 212-14-125 | REP-E | 93-04-061 | 212-28-065 | REP | 93-05-032 |
| 204-84-100 | REP | 93-11-018 | 212-14-125 | REP | 93-05-032 | 212-28-070 | REP-E | 93-04-061 |
| 208-04-010 | NEW-P | 93-20-040 | 212-14-130 | REP-E | 93-04-061 | 212-28-070 | REP | 93-05-032 |
| 208-04-010 | NEW-E | 93-20-041 | 212-14-130 | REP | 93-05-032 | 212-28-075 | REP-E | 93-04-061 |
| 208-04-020 | NEW-P | 93-20-040 | 212-26-001 | REP-E | 93-04-061 | 212-28-075 | REP | 93-05-032 |
| 208-04-020 | NEW-E | 93-20-041 | 212-26-001 | REP | 93-05-032 | 212-28-080 | REP-E | 93-04-061 |
| 208-04-030 | NEW-P | 93-20-040 | 212-26-005 | REP-E | 93-04-061 | 212-28-080 | REP | 93-05-032 |
| 208-04-030 | NEW-E | 93-20-041 | 212-26-005 | REP | 93-05-032 | 212-28-085 | REP-E | 93-04-061 |
| 212-12 | NEW-C | 93-04-060 | 212-26-010 | REP-E | 93-04-061 | 212-28-085 | REP | 93-05-032 |
| 212-12-001 | NEW-E | 93-04-061 | 212-26-010 | REP | 93-05-032 | 212-28-090 | REP-E | 93-04-061 |
| 212-12-001 | NEW | 93-05-032 | 212-26-015 | REP-E | 93-04-061 | 212-28-090 | REP | 93-05-032 |
| 212-12-005 | NEW-E | 93-04-061 | 212-26-015 | REP | 93-05-032 | 212-28-095 | REP-E | 93-04-061 |
| 212-12-005 | NEW | 93-05-032 | 212-26-020 | REP-E | 93-04-061 | 212-28-095 | REP | 93-05-032 |
| 212-12-011 | NEW-E | 93-04-061 | 212-26-020 | REP | 93-05-032 | 212-28-100 | REP-E | 93-04-061 |
| 212-12-011 | NEW | 93-05-032 | 212-26-025 | REP-E | 93-04-061 | 212-28-100 | REP | 93-05-032 |
| 212-12-015 | NEW-E | 93-04-061 | 212-26-025 | REP | 93-05-032 | 212-28-105 | REP-E | 93-04-061 |
| 212-12-015 | NEW | 93-05-032 | 212-26-030 | REP-E | 93-04-061 | 212-28-105 | REP | 93-05-032 |
| 212-12-020 | NEW-E | 93-04-061 | 212-26-030 | REP | 93-05-032 | 212-28-110 | REP-E | 93-04-061 |
| 212-12-020 | NEW | 93-05-032 | 212-26-035 | REP-E | 93-04-061 | 212-28-110 | REP | 93-05-032 |
| 212-12-025 | NEW-E | 93-04-061 | 212-26-035 | REP | 93-05-032 | 212-32-001 | REP-E | 93-04-061 |
| 212-12-025 | NEW | 93-05-032 | 212-26-040 | REP-E | 93-04-061 | 212-32-001 | REP | 93-05-032 |
| 212-12-030 | NEW-E | 93-04-061 | 212-26-040 | REP | 93-05-032 | 212-32-005 | REP-E | 93-04-061 |
| 212-12-030 | NEW | 93-05-032 | 212-26-045 | REP-E | 93-04-061 | 212-32-005 | REP | 93-05-032 |
| 212-12-035 | NEW-E | 93-04-061 | 212-26-045 | REP | 93-05-032 | 212-32-010 | REP-E | 93-04-061 |
| 212-12-035 | NEW | 93-05-032 | 212-26-050 | REP-E | 93-04-061 | 212-32-010 | REP | 93-05-032 |
| 212-12-040 | NEW-E | 93-04-061 | 212-26-050 | REP | 93-05-032 | 212-32-015 | REP-E | 93-04-061 |
| 212-12-040 | NEW | 93-05-032 | 212-26-055 | REP-E | 93-04-061 | 212-32-015 | REP | 93-05-032 |
| 212-12-044 | NEW-E | 93-04-061 | 212-26-055 | REP | 93-05-032 | 212-32-020 | REP-E | 93-04-061 |
| 212-12-044 | NEW | 93-05-032 | 212-26-060 | REP-E | 93-04-061 | 212-32-020 | REP | 93-05-032 |
| 212-14-001 | REP-E | 93-04-061 | 212-26-060 | REP | 93-05-032 | 212-32-025 | REP-E | 93-04-061 |
| 212-14-001 | REP | 93-05-032 | 212-26-065 | REP-E | 93-04-061 | 212-32-025 | REP | 93-05-032 |
| 212-14-005 | REP-E | 93-04-061 | 212-26-065 | REP | 93-05-032 | 212-32-030 | REP-E | 93-04-061 |

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| WAC # | WSR # | WAC # | WSR # | WAC # | WSR # | | | |
|------------|-------|-----------|---------------|-------|-----------|---------------|-------|-----------|
| 212-64-043 | REP | 93-05-032 | 212-70-070 | REP-E | 93-04-061 | 220-24-02000Y | NEW-E | 93-18-030 |
| 212-64-045 | REP-E | 93-04-061 | 212-70-070 | REP | 93-05-032 | 220-24-02000Y | REP-E | 93-18-077 |
| 212-64-045 | REP | 93-05-032 | 212-70-080 | REP-E | 93-04-061 | 220-24-02000Z | NEW-E | 93-18-077 |
| 212-64-050 | REP-E | 93-04-061 | 212-70-080 | REP | 93-05-032 | 220-24-02000Z | REP-E | 93-19-042 |
| 212-64-050 | REP | 93-05-032 | 212-70-090 | REP-E | 93-04-061 | 220-32-05100A | NEW-E | 93-18-045 |
| 212-64-055 | REP-E | 93-04-061 | 212-70-090 | REP | 93-05-032 | 220-32-05100A | REP-E | 93-19-059 |
| 212-64-055 | REP | 93-05-032 | 212-70-100 | REP-E | 93-04-061 | 220-32-05100B | NEW-E | 93-19-059 |
| 212-64-060 | REP-E | 93-04-061 | 212-70-100 | REP | 93-05-032 | 220-32-05100B | REP-E | 93-19-132 |
| 212-64-060 | REP | 93-05-032 | 212-70-110 | REP-E | 93-04-061 | 220-32-05100C | NEW-E | 93-19-132 |
| 212-64-065 | REP-E | 93-04-061 | 212-70-110 | REP | 93-05-032 | 220-32-05100C | REP-E | 93-20-025 |
| 212-64-065 | REP | 93-05-032 | 212-70-120 | REP-E | 93-04-061 | 220-32-05100D | NEW-E | 93-20-025 |
| 212-64-067 | REP-E | 93-04-061 | 212-70-120 | REP | 93-05-032 | 220-32-05100T | REP-E | 93-04-073 |
| 212-64-067 | REP | 93-05-032 | 212-70-130 | REP-E | 93-04-061 | 220-32-05100U | NEW-E | 93-04-073 |
| 212-64-068 | REP-E | 93-04-061 | 212-70-130 | REP | 93-05-032 | 220-32-05100U | REP-E | 93-06-015 |
| 212-64-068 | REP | 93-05-032 | 212-70-140 | REP-E | 93-04-061 | 220-32-05100V | NEW-E | 93-06-015 |
| 212-64-069 | REP-E | 93-04-061 | 212-70-140 | REP | 93-05-032 | 220-32-05100V | REP-E | 93-06-069 |
| 212-64-069 | REP | 93-05-032 | 212-70-150 | REP-E | 93-04-061 | 220-32-05100W | NEW-E | 93-06-069 |
| 212-64-070 | REP-E | 93-04-061 | 212-70-150 | REP | 93-05-032 | 220-32-05100Y | NEW-E | 93-15-098 |
| 212-64-070 | REP | 93-05-032 | 212-70-160 | REP-E | 93-04-061 | 220-32-05100Y | REP-E | 93-17-008 |
| 212-65-001 | REP-E | 93-04-061 | 212-70-160 | REP | 93-05-032 | 220-32-05100X | NEW-E | 93-15-049 |
| 212-65-001 | REP | 93-05-032 | 212-70-170 | REP-E | 93-04-061 | 220-32-05100X | REP-E | 93-15-098 |
| 212-65-005 | REP-E | 93-04-061 | 212-70-170 | REP | 93-05-032 | 220-32-05100Z | NEW-E | 93-17-008 |
| 212-65-005 | REP | 93-05-032 | 212-70-180 | REP-E | 93-04-061 | 220-32-05100Z | REP-E | 93-18-045 |
| 212-65-010 | REP-E | 93-04-061 | 212-70-180 | REP | 93-05-032 | 220-32-05500C | NEW-E | 93-10-061 |
| 212-65-010 | REP | 93-05-032 | 212-70-190 | REP-E | 93-04-061 | 220-32-05500C | REP-E | 93-12-010 |
| 212-65-015 | REP-E | 93-04-061 | 212-70-190 | REP | 93-05-032 | 220-32-05500D | NEW-E | 93-12-010 |
| 212-65-015 | REP | 93-05-032 | 212-70-200 | REP-E | 93-04-061 | 220-32-05500D | REP-E | 93-13-030 |
| 212-65-020 | REP-E | 93-04-061 | 212-70-200 | REP | 93-05-032 | 220-32-05500E | NEW-E | 93-13-030 |
| 212-65-020 | REP | 93-05-032 | 212-70-210 | REP-E | 93-04-061 | 220-32-05900T | NEW-E | 93-21-011 |
| 212-65-025 | REP-E | 93-04-061 | 212-70-210 | REP | 93-05-032 | 220-33-01000M | REP-E | 93-05-017 |
| 212-65-025 | REP | 93-05-032 | 212-70-220 | REP-E | 93-04-061 | 220-33-01000N | NEW-E | 93-05-017 |
| 212-65-030 | REP-E | 93-04-061 | 212-70-220 | REP | 93-05-032 | 220-33-01000N | REP-E | 93-06-014 |
| 212-65-030 | REP | 93-05-032 | 212-70-230 | REP-E | 93-04-061 | 220-33-01000P | NEW-E | 93-06-070 |
| 212-65-035 | REP-E | 93-04-061 | 212-70-230 | REP | 93-05-032 | 220-33-01000P | REP-E | 93-07-001 |
| 212-65-035 | REP | 93-05-032 | 212-70-240 | REP-E | 93-04-061 | 220-33-01000Q | NEW-E | 93-07-001 |
| 212-65-040 | REP-E | 93-04-061 | 212-70-240 | REP | 93-05-032 | 220-33-01000R | NEW-E | 93-19-116 |
| 212-65-040 | REP | 93-05-032 | 212-70-250 | REP-E | 93-04-061 | 220-33-01000R | REP-E | 93-20-024 |
| 212-65-045 | REP-E | 93-04-061 | 212-70-250 | REP | 93-05-032 | 220-33-01000S | NEW-E | 93-20-024 |
| 212-65-045 | REP | 93-05-032 | 212-70-260 | REP-E | 93-04-061 | 220-33-01000S | REP-E | 93-21-018 |
| 212-65-050 | REP-E | 93-04-061 | 212-70-260 | REP | 93-05-032 | 220-33-01000T | NEW-E | 93-21-018 |
| 212-65-050 | REP | 93-05-032 | 220-16-015 | AMD-P | 93-12-092 | 220-33-03000E | NEW-E | 93-12-041 |
| 212-65-055 | REP-E | 93-04-061 | 220-16-015 | AMD | 93-15-051 | 220-33-03000E | REP-E | 93-13-078 |
| 212-65-055 | REP | 93-05-032 | 220-16-460 | NEW-P | 93-04-096 | 220-33-03000F | NEW-E | 93-13-078 |
| 212-65-060 | REP-E | 93-04-061 | 220-16-460 | NEW-W | 93-17-065 | 220-36-02100L | NEW-E | 93-14-108 |
| 212-65-060 | REP | 93-05-032 | 220-20-010 | AMD-P | 93-12-092 | 220-36-02100L | REP-E | 93-16-034 |
| 212-65-065 | REP-E | 93-04-061 | 220-20-010 | AMD | 93-15-051 | 220-36-023 | AMD-P | 93-09-074 |
| 212-65-065 | REP | 93-05-032 | 220-20-01000A | NEW-E | 93-23-071 | 220-36-023 | AMD-C | 93-13-006 |
| 212-65-070 | REP-E | 93-04-061 | 220-20-017 | REP-P | 93-20-109 | 220-36-023 | AMD | 93-14-042 |
| 212-65-070 | REP | 93-05-032 | 220-20-017 | REP | 94-01-001 | 220-36-02300M | NEW-E | 93-21-046 |
| 212-65-075 | REP-E | 93-04-061 | 220-20-020 | AMD-P | 93-09-074 | 220-40-02100U | NEW-E | 93-14-108 |
| 212-65-075 | REP | 93-05-032 | 220-20-020 | AMD-C | 93-13-006 | 220-40-02100U | REP-E | 93-16-034 |
| 212-65-080 | REP-E | 93-04-061 | 220-20-020 | AMD | 93-14-042 | 220-40-027 | AMD-P | 93-09-074 |
| 212-65-080 | REP | 93-05-032 | 220-20-02500A | NEW-E | 93-11-040 | 220-40-027 | AMD-C | 93-13-006 |
| 212-65-085 | REP-E | 93-04-061 | 220-20-026 | NEW-P | 93-12-092 | 220-40-027 | AMD | 93-14-042 |
| 212-65-085 | REP | 93-05-032 | 220-20-026 | NEW-C | 93-15-050 | 220-40-02700H | NEW-E | 93-19-030 |
| 212-65-090 | REP-E | 93-04-061 | 220-20-026 | NEW | 93-17-021 | 220-40-02700H | REP-E | 93-19-068 |
| 212-65-090 | REP | 93-05-032 | 220-20-050 | AMD-P | 93-20-109 | 220-40-02700I | NEW-E | 93-19-068 |
| 212-65-095 | REP-E | 93-04-061 | 220-20-050 | AMD | 94-01-001 | 220-44-04000D | NEW-E | 93-11-010 |
| 212-65-095 | REP | 93-05-032 | 220-20-051 | NEW-P | 93-20-109 | 220-44-050 | AMD-P | 93-04-095 |
| 212-65-100 | REP-E | 93-04-061 | 220-20-051 | NEW | 94-01-001 | 220-44-050 | AMD | 93-07-093 |
| 212-65-100 | REP | 93-05-032 | 220-24-02000A | NEW-E | 93-19-042 | 220-44-05000B | REP-E | 93-09-067 |
| 212-70-010 | REP-E | 93-04-061 | 220-24-02000A | REP-E | 93-19-089 | 220-44-05000C | NEW-E | 93-09-067 |
| 212-70-010 | REP | 93-05-032 | 220-24-02000B | NEW-E | 93-19-089 | 220-44-05000C | REP-E | 93-10-094 |
| 212-70-020 | REP-E | 93-04-061 | 220-24-02000T | NEW-E | 93-10-043 | 220-44-05000D | NEW-E | 93-10-094 |
| 212-70-020 | REP | 93-05-032 | 220-24-02000T | REP-E | 93-15-008 | 220-44-05000D | REP-E | 93-12-078 |
| 212-70-030 | REP-E | 93-04-061 | 220-24-02000U | NEW-E | 93-15-008 | 220-44-05000E | NEW-E | 93-12-078 |
| 212-70-030 | REP | 93-05-032 | 220-24-02000U | REP-E | 93-15-097 | 220-44-05000E | REP-E | 93-18-078 |
| 212-70-040 | REP-E | 93-04-061 | 220-24-02000V | NEW-E | 93-15-097 | 220-44-05000F | NEW-E | 93-18-078 |
| 212-70-040 | REP | 93-05-032 | 220-24-02000V | REP-E | 93-16-031 | 220-44-05000F | REP-E | 93-19-027 |
| 212-70-050 | REP-E | 93-04-061 | 220-24-02000W | NEW-E | 93-16-031 | 220-44-05000G | NEW-E | 93-19-027 |
| 212-70-050 | REP | 93-05-032 | 220-24-02000W | REP-E | 93-16-082 | 220-44-05000G | REP-E | 93-24-063 |
| 212-70-060 | REP-E | 93-04-061 | 220-24-02000X | NEW-E | 93-16-082 | 220-44-05000H | NEW-E | 93-24-063 |
| 212-70-060 | REP | 93-05-032 | 220-24-02000X | REP-E | 93-18-030 | 220-44-09000B | NEW-E | 93-10-094 |

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|---------------|-------|-----------|---------------|-------|-----------|---------------|-------|-----------|
| 220-47-302 | AMD-P | 93-09-073 | 220-52-07100K | NEW-E | 93-09-028 | 220-56-126 | AMD | 93-08-034 |
| 220-47-302 | AMD | 93-14-041 | 220-52-07100K | REP-E | 93-10-044 | 220-56-128 | AMD-P | 93-04-096 |
| 220-47-304 | AMD-P | 93-09-073 | 220-52-07100L | NEW-E | 93-10-044 | 220-56-128 | AMD | 93-08-034 |
| 220-47-304 | AMD | 93-14-041 | 220-52-07100L | REP-E | 93-13-089 | 220-56-12800G | NEW-E | 93-17-052 |
| 220-47-307 | AMD-P | 93-09-073 | 220-52-07100M | NEW-E | 93-13-058 | 220-56-12800G | REP-E | 94-01-012 |
| 220-47-307 | AMD-W | 93-22-087 | 220-52-07100M | REP-E | 93-13-089 | 220-56-12800H | NEW-E | 94-01-012 |
| 220-47-311 | AMD-P | 93-09-073 | 220-52-07100N | NEW-E | 93-13-089 | 220-56-131 | AMD-P | 93-04-096 |
| 220-47-311 | AMD | 93-14-041 | 220-52-07300M | REP-E | 93-05-006 | 220-56-131 | AMD | 93-08-034 |
| 220-47-401 | AMD-P | 93-09-073 | 220-52-07300N | NEW-E | 93-05-006 | 220-56-132 | AMD-P | 93-04-096 |
| 220-47-401 | AMD | 93-14-041 | 220-52-07300N | REP-E | 93-07-006 | 220-56-132 | AMD | 93-08-034 |
| 220-47-411 | AMD-P | 93-09-073 | 220-52-07300P | NEW-E | 93-23-061 | 220-56-180 | AMD-P | 93-04-096 |
| 220-47-411 | AMD | 93-14-041 | 220-52-07300P | REP-E | 94-01-109 | 220-56-180 | AMD | 93-08-034 |
| 220-47-901 | NEW-E | 93-17-009 | 220-52-07300Q | NEW-E | 94-01-109 | 220-56-190 | AMD-P | 93-04-096 |
| 220-47-901 | REP-E | 93-17-053 | 220-52-07300Q | REP-E | 94-01-152 | 220-56-190 | AMD-C | 93-08-033 |
| 220-47-902 | NEW-E | 93-17-053 | 220-52-07300R | NEW-E | 94-01-152 | 220-56-190 | AMD | 93-14-043 |
| 220-47-902 | REP-E | 93-17-108 | 220-52-075 | AMD-P | 93-12-092 | 220-56-19000P | NEW-E | 93-10-045 |
| 220-47-903 | NEW-E | 93-17-108 | 220-52-075 | AMD | 93-15-051 | 220-56-19000P | REP-E | 93-14-012 |
| 220-47-903 | REP-E | 93-18-040 | 220-55-00100A | NEW-E | 93-13-028 | 220-56-19000Q | NEW-E | 93-14-012 |
| 220-47-904 | NEW-E | 93-18-040 | 220-55-005 | NEW-P | 93-20-109 | 220-56-19000Q | REP-E | 93-15-017 |
| 220-47-904 | REP-E | 93-19-026 | 220-55-005 | NEW | 94-01-001 | 220-56-19000R | NEW-E | 93-15-017 |
| 220-47-905 | NEW-E | 93-19-026 | 220-55-010 | AMD-P | 93-04-096 | 220-56-19000R | REP-E | 93-17-092 |
| 220-47-905 | REP-E | 93-19-031 | 220-55-010 | AMD | 93-08-034 | 220-56-19000S | NEW-E | 93-17-092 |
| 220-47-906 | NEW-E | 93-19-031 | 220-55-010 | AMD-P | 93-20-109 | 220-56-19000S | REP-E | 93-18-009 |
| 220-47-906 | REP-E | 93-19-057 | 220-55-010 | AMD | 94-01-001 | 220-56-19000T | NEW-E | 93-18-009 |
| 220-47-907 | NEW-E | 93-19-057 | 220-55-015 | AMD-P | 93-20-109 | 220-56-19000T | REP-E | 93-19-058 |
| 220-47-907 | REP-E | 93-19-103 | 220-55-015 | AMD | 94-01-001 | 220-56-19000U | NEW-E | 93-19-058 |
| 220-47-908 | NEW-E | 93-19-103 | 220-55-040 | AMD-P | 93-20-109 | 220-56-19000U | REP-E | 93-20-002 |
| 220-47-908 | REP-E | 93-20-023 | 220-55-040 | AMD | 94-01-001 | 220-56-19000V | NEW-E | 93-20-002 |
| 220-47-909 | NEW-E | 93-20-023 | 220-55-050 | AMD-P | 93-20-109 | 220-56-19000V | REP-E | 93-20-022 |
| 220-47-909 | REP-E | 93-20-073 | 220-55-050 | AMD | 94-01-001 | 220-56-19000W | NEW-E | 93-20-022 |
| 220-47-910 | NEW-E | 93-20-073 | 220-55-055 | AMD-P | 93-20-109 | 220-56-191 | NEW-P | 93-04-096 |
| 220-47-910 | REP-E | 93-21-012 | 220-55-055 | AMD | 94-01-001 | 220-56-191 | NEW-C | 93-08-033 |
| 220-47-911 | NEW-E | 93-21-012 | 220-55-060 | AMD-P | 93-20-109 | 220-56-191 | NEW | 93-14-043 |
| 220-47-911 | REP-E | 93-21-035 | 220-55-060 | AMD | 94-01-001 | 220-56-19100A | NEW-E | 93-13-036 |
| 220-47-912 | NEW-E | 93-21-035 | 220-55-065 | AMD-P | 93-20-109 | 220-56-19100A | REP-E | 93-15-016 |
| 220-47-912 | REP-E | 93-22-011 | 220-55-065 | AMD | 94-01-001 | 220-56-19100B | NEW-E | 93-15-016 |
| 220-47-913 | NEW-E | 93-22-011 | 220-55-070 | AMD-P | 93-20-109 | 220-56-19100B | REP-E | 93-20-045 |
| 220-47-913 | REP-E | 93-22-065 | 220-55-070 | AMD | 94-01-001 | 220-56-19100C | NEW-E | 93-17-093 |
| 220-47-914 | NEW-E | 93-22-065 | 220-55-075 | AMD-P | 93-20-109 | 220-56-19100D | NEW-E | 93-20-026 |
| 220-47-914 | REP-E | 93-23-001 | 220-55-075 | AMD | 94-01-001 | 220-56-195 | AMD-P | 93-04-096 |
| 220-47-915 | NEW-E | 93-23-001 | 220-55-080 | REP-P | 93-20-109 | 220-56-195 | AMD-C | 93-08-033 |
| 220-47-915 | REP-E | 93-23-017 | 220-55-080 | REP | 94-01-001 | 220-56-195 | AMD | 93-14-043 |
| 220-47-916 | NEW-E | 93-23-017 | 220-55-086 | REP-P | 93-20-109 | 220-56-19500J | NEW-E | 93-14-071 |
| 220-47-916 | REP-E | 93-23-051 | 220-55-086 | REP | 94-01-001 | 220-56-19500K | NEW-E | 93-20-026 |
| 220-47-917 | NEW-E | 93-23-051 | 220-55-090 | REP-P | 93-20-109 | 220-56-220 | AMD-P | 93-04-096 |
| 220-47-917 | REP-E | 93-24-025 | 220-55-090 | REP | 94-01-001 | 220-56-220 | AMD-W | 93-17-065 |
| 220-47-918 | NEW-E | 93-24-025 | 220-55-100 | AMD-P | 93-20-109 | 220-56-220 | AMD-P | 93-04-096 |
| 220-48-005 | AMD-P | 93-12-092 | 220-55-100 | AMD | 94-01-001 | 220-56-235 | AMD | 93-08-034 |
| 220-48-005 | AMD | 93-15-051 | 220-55-105 | AMD-P | 93-20-109 | 220-56-240 | AMD-P | 93-04-096 |
| 220-49-02000E | NEW-E | 93-06-044 | 220-55-105 | AMD | 94-01-001 | 220-56-240 | AMD | 93-08-034 |
| 220-52-019 | AMD-P | 93-12-092 | 220-55-110 | AMD-P | 93-20-109 | 220-56-240 | AMD-P | 93-10-095 |
| 220-52-019 | AMD | 93-15-051 | 220-55-110 | AMD | 94-01-001 | 220-56-240 | AMD-C | 93-15-009 |
| 220-52-01901 | AMD-P | 93-12-092 | 220-55-115 | AMD-P | 93-20-109 | 220-56-240 | AMD-C | 93-15-010 |
| 220-52-01901 | AMD | 93-15-051 | 220-55-115 | AMD | 94-01-001 | 220-56-240 | AMD-C | 93-18-076 |
| 220-52-04000A | NEW-E | 93-20-001 | 220-55-120 | AMD-P | 93-20-109 | 220-56-240 | AMD | 93-22-004 |
| 220-52-043 | AMD-P | 93-12-092 | 220-55-120 | AMD | 94-01-001 | 220-56-24000A | NEW-E | 93-09-026 |
| 220-52-043 | AMD | 93-15-051 | 220-55-125 | REP-P | 93-20-109 | 220-56-245 | AMD-P | 93-04-096 |
| 220-52-046 | AMD-P | 93-12-092 | 220-55-125 | AMD | 94-01-001 | 220-56-245 | AMD | 93-08-034 |
| 220-52-046 | AMD | 93-15-051 | 220-55-130 | REP-P | 93-20-109 | 220-56-255 | AMD-P | 93-04-096 |
| 220-52-050 | AMD-P | 93-12-092 | 220-55-130 | REP | 94-01-001 | 220-56-255 | AMD | 93-08-034 |
| 220-52-050 | AMD | 93-15-051 | 220-55-140 | REP-P | 93-20-109 | 220-56-255 | AMD-P | 93-10-095 |
| 220-52-051 | AMD-P | 93-12-092 | 220-55-140 | REP | 94-01-001 | 220-56-255 | AMD-C | 93-15-009 |
| 220-52-051 | AMD | 93-15-051 | 220-55-150 | REP-P | 93-20-109 | 220-56-255 | AMD | 93-15-011 |
| 220-52-05100N | NEW-E | 93-09-028 | 220-55-150 | REP | 94-01-001 | 220-56-25500R | NEW-E | 93-13-002 |
| 220-52-05100P | NEW-E | 93-11-057 | 220-56-100 | AMD-P | 93-04-096 | 220-56-25500R | REP-E | 93-15-015 |
| 220-52-05100Q | NEW-E | 93-19-067 | 220-56-105 | AMD-P | 93-04-096 | 220-56-25500S | NEW-E | 93-15-015 |
| 220-52-068 | NEW-P | 93-12-092 | 220-56-105 | AMD | 93-08-034 | 220-56-25500S | REP-E | 93-15-068 |
| 220-52-068 | NEW | 93-15-051 | 220-56-116 | NEW-E | 93-08-016 | 220-56-25500T | NEW-E | 93-15-068 |
| 220-52-069 | AMD-P | 93-12-092 | 220-56-116 | AMD-P | 93-04-096 | 220-56-270 | AMD-P | 93-04-096 |
| 220-52-069 | AMD | 93-15-051 | 220-56-116 | AMD-W | 93-17-065 | 220-56-270 | AMD | 93-08-034 |
| 220-52-06900A | NEW-E | 93-07-043 | 220-56-124 | NEW-P | 93-04-096 | 220-56-285 | AMD-P | 93-04-096 |
| 220-52-071 | AMD-P | 93-12-092 | 220-56-124 | NEW | 93-08-034 | 220-56-285 | AMD | 93-08-034 |
| 220-52-071 | AMD | 93-15-051 | 220-56-126 | AMD-P | 93-04-096 | 220-56-28500A | NEW-E | 93-09-026 |

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| 220-56-307 | AMD | 93-08-034 | 220-57-210 | AMD | 93-14-043 | 220-69-273 | AMD-P | 93-20-109 |
| 220-56-310 | AMD-P | 93-04-096 | 220-57-235 | AMD-P | 93-04-096 | 220-69-273 | AMD | 94-01-001 |
| 220-56-310 | AMD | 93-08-034 | 220-57-235 | AMD | 93-08-034 | 220-88-030 | AMD-P | 93-12-092 |
| 220-56-315 | AMD-P | 93-04-096 | 220-57-25000A | NEW-E | 93-22-019 | 220-88-030 | AMD-P | 93-15-051 |
| 220-56-315 | AMD | 93-08-034 | 220-57-255 | AMD-P | 93-04-096 | 222-08-030 | AMD-P | 93-20-077 |
| 220-56-320 | AMD-P | 93-04-096 | 220-57-255 | AMD | 93-08-034 | 222-08-030 | AMD | 94-01-134 |
| 220-56-320 | AMD | 93-08-034 | 220-57-25500A | NEW-E | 93-22-019 | 222-08-040 | AMD-P | 93-05-010 |
| 220-56-325 | AMD-P | 93-04-096 | 220-57-270 | AMD-P | 93-04-096 | 222-08-040 | AMD | 93-12-001 |
| 220-56-325 | AMD | 93-08-034 | 220-57-270 | AMD-W | 93-17-065 | 222-10-110 | AMD-P | 93-05-010 |
| 220-56-32500W | NEW-E | 93-11-057 | 220-57-29000N | NEW-E | 93-08-016 | 222-10-110 | AMD | 93-12-001 |
| 220-56-32500X | NEW-E | 93-11-063 | 220-57-310 | AMD-P | 93-04-096 | 222-12-020 | AMD-P | 93-05-010 |
| 220-56-32500X | REP-E | 93-12-079 | 220-57-310 | AMD | 93-08-034 | 222-12-020 | AMD | 93-12-001 |
| 220-56-32500Y | NEW-E | 93-12-079 | 220-57-315 | AMD-P | 93-04-096 | 222-12-020 | AMD-P | 93-20-077 |
| 220-56-32500Y | REP-E | 93-13-057 | 220-57-315 | AMD | 93-08-034 | 222-12-020 | AMD | 94-01-134 |
| 220-56-330 | AMD-P | 93-04-096 | 220-57-31500W | NEW-E | 93-08-016 | 222-12-050 | AMD-P | 93-05-010 |
| 220-56-330 | AMD | 93-08-034 | 220-57-31500W | REP-E | 93-13-009 | 222-12-050 | AMD | 93-12-001 |
| 220-56-335 | AMD-P | 93-04-096 | 220-57-31500X | NEW-E | 93-13-009 | 222-16-010 | AMD-P | 93-05-010 |
| 220-56-335 | AMD | 93-08-034 | 220-57-319 | AMD-P | 93-04-096 | 222-16-010 | AMD-E | 93-07-060 |
| 220-56-350 | AMD-P | 93-04-096 | 220-57-319 | AMD | 93-08-034 | 222-16-010 | AMD | 93-12-001 |
| 220-56-350 | AMD | 93-08-034 | 220-57-33500G | NEW-E | 93-21-036 | 222-16-010 | AMD-E | 93-15-071 |
| 220-56-350 | AMD-P | 93-10-095 | 220-57-33500G | REP-E | 93-22-005 | 222-16-010 | AMD-P | 93-23-048 |
| 220-56-350 | AMD-C | 93-15-009 | 220-57-34000G | NEW-E | 93-21-013 | 222-16-010 | AMD-E | 93-23-049 |
| 220-56-350 | AMD | 93-15-011 | 220-57-34000G | REP-E | 93-22-005 | 222-16-010 | AMD-E | 93-24-024 |
| 220-56-35000R | NEW-E | 93-08-059 | 220-57-350 | AMD-P | 93-04-096 | 222-16-010 | AMD-E | 94-01-124 |
| 220-56-35000R | REP-E | 93-15-022 | 220-57-350 | AMD | 93-08-034 | 222-16-030 | AMD-P | 93-20-077 |
| 220-56-35000S | NEW-E | 93-09-025 | 220-57-370 | AMD-P | 93-10-095 | 222-16-030 | AMD | 94-01-134 |
| 220-56-35000T | NEW-E | 93-15-022 | 220-57-370 | AMD-C | 93-15-009 | 222-16-035 | AMD-P | 93-20-077 |
| 220-56-35000T | REP-E | 93-17-016 | 220-57-370 | AMD | 93-15-011 | 222-16-035 | AMD-E | 93-24-024 |
| 220-56-35000U | NEW-E | 93-15-032 | 220-57-37000E | NEW-E | 93-15-016 | 222-16-035 | AMD-E | 94-01-124 |
| 220-56-35000U | REP-E | 93-17-016 | 220-57-380 | AMD-P | 93-04-096 | 222-16-035 | AMD | 94-01-134 |
| 220-56-35000V | NEW-E | 93-17-016 | 220-57-380 | AMD | 93-08-034 | 222-16-050 | AMD-P | 93-05-010 |
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| 220-56-36000C | REP-E | 93-08-017 | 220-57-400 | AMD-W | 93-17-065 | 222-16-060 | AMD | 94-01-134 |
| 220-56-36000D | NEW-E | 93-08-017 | 220-57-425 | AMD-P | 93-04-096 | 222-16-070 | AMD-P | 93-05-010 |
| 220-56-36000D | REP-E | 93-10-096 | 220-57-425 | AMD-C | 93-08-033 | 222-16-070 | AMD | 93-12-001 |
| 220-56-36000E | NEW-E | 93-10-096 | 220-57-425 | AMD | 93-14-043 | 222-16-080 | AMD-P | 93-05-010 |
| 220-56-36000F | NEW-E | 93-20-038 | 220-57-42500A | NEW-E | 93-15-016 | 222-16-080 | AMD-E | 93-07-060 |
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| 220-56-36000G | NEW-E | 93-23-022 | 220-57-42500B | NEW-E | 93-20-003 | 222-16-080 | AMD-E | 93-15-071 |
| 220-56-36000G | REP-E | 93-23-052 | 220-57-430 | AMD-P | 93-04-096 | 222-16-080 | AMD-P | 93-23-048 |
| 220-56-380 | AMD-P | 93-04-096 | 220-57-430 | AMD-C | 93-08-033 | 222-16-080 | AMD-E | 93-23-049 |
| 220-56-380 | AMD | 93-08-034 | 220-57-430 | AMD | 93-14-043 | 222-20-010 | AMD-P | 93-05-010 |
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| 220-56-38000L | REP-E | 93-15-022 | 220-57-43500I | NEW-E | 93-19-076 | 222-22-010 | AMD-P | 93-20-077 |
| 220-56-38000M | NEW-E | 93-15-022 | 220-57-445 | AMD-P | 93-04-096 | 222-22-010 | AMD | 94-01-134 |
| 220-56-38000M | REP-E | 93-17-016 | 220-57-445 | AMD | 93-08-034 | 222-22-020 | AMD-P | 93-20-077 |
| 220-56-38000N | NEW-E | 93-15-032 | 220-57-45500D | NEW-E | 93-19-076 | 222-22-020 | AMD | 94-01-134 |
| 220-56-38000N | REP-E | 93-17-016 | 220-57-460 | AMD-P | 93-04-096 | 222-22-030 | AMD-P | 93-20-077 |
| 220-56-38000P | NEW-E | 93-17-016 | 220-57-460 | AMD | 93-08-034 | 222-22-030 | AMD | 94-01-134 |
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| 220-56-382 | AMD-P | 93-04-096 | 220-57-465 | AMD-P | 93-04-096 | 222-22-040 | AMD | 94-01-134 |
| 220-56-382 | AMD | 93-08-034 | 220-57-465 | AMD | 93-08-034 | 222-22-050 | AMD-P | 93-20-077 |
| 220-56-390 | AMD-P | 93-04-096 | 220-57-46500G | NEW-E | 93-20-026 | 222-22-050 | AMD | 94-01-134 |
| 220-56-390 | AMD | 93-08-034 | 220-57-495 | AMD-P | 93-04-096 | 222-22-060 | AMD-P | 93-20-077 |
| 220-57-13000R | NEW-E | 93-21-036 | 220-57-495 | AMD | 93-08-034 | 222-22-060 | AMD | 94-01-134 |
| 220-57-13500P | NEW-E | 93-21-036 | 220-57-49700 | NEW-E | 93-08-016 | 222-22-070 | AMD-P | 93-20-077 |
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| 220-57-137 | AMD | 93-08-034 | 220-57-51000I | NEW-E | 93-21-036 | 222-22-080 | AMD-P | 93-20-077 |
| 220-57-14000N | NEW-E | 93-14-040 | 220-57-51000I | REP-E | 93-22-005 | 222-22-080 | AMD | 94-01-134 |
| 220-57-14000N | REP-E | 93-20-107 | 220-57-51500I | NEW-E | 93-08-016 | 222-22-090 | AMD-P | 93-20-077 |
| 220-57-14000P | NEW-E | 93-20-107 | 220-57-51500I | REP-E | 93-13-029 | 222-22-090 | AMD | 94-01-134 |
| 220-57-160 | AMD-P | 93-04-096 | 220-57-51500J | NEW-E | 93-13-029 | 222-22-100 | AMD-P | 93-20-077 |
| 220-57-160 | AMD | 93-08-034 | 220-57A-183 | AMD-P | 93-04-096 | 222-22-100 | AMD | 94-01-134 |
| 220-57-16000Q | NEW-E | 93-04-043 | 220-57A-183 | AMD | 93-08-034 | 222-24-010 | AMD-P | 93-20-077 |
| 220-57-16000R | NEW-E | 93-06-013 | 220-69-220 | AMD-P | 93-20-109 | 222-24-010 | AMD | 94-01-134 |
| 220-57-16000R | REP-E | 93-06-068 | 220-69-220 | AMD | 94-01-001 | 222-24-025 | AMD-P | 93-20-077 |
| 220-57-16000S | NEW-E | 93-08-018 | 220-69-245 | AMD-P | 93-20-109 | 222-24-025 | AMD | 94-01-134 |
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| 220-57-175 | AMD | 93-08-034 | 220-69-260 | AMD-P | 93-20-109 | 222-24-040 | AMD | 94-01-134 |
| 220-57-20000H | NEW-E | 93-21-036 | 220-69-260 | AMD | 94-01-001 | 222-24-050 | AMD-P | 93-05-010 |
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| 222-30-020 | AMD | 93-12-001 | 230-08-010 | AMD | 93-13-063 | 230-30-060 | AMD | 93-12-082 |
| 222-30-020 | AMD-E | 93-24-024 | 230-08-017 | AMD-P | 93-20-006 | 230-30-072 | AMD-P | 93-08-066 |
| 222-30-020 | AMD-E | 94-01-124 | 230-08-017 | AMD | 94-01-033 | 230-30-072 | AMD | 93-13-063 |
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| 222-30-040 | AMD | 93-12-001 | 230-08-040 | NEW-P | 93-20-006 | 230-30-080 | AMD | 93-12-082 |
| 222-34-030 | AMD-P | 93-20-077 | 230-08-040 | NEW | 94-01-033 | 230-30-095 | REP-P | 93-07-083 |
| 222-34-030 | AMD | 94-01-134 | 230-08-060 | AMD-P | 93-15-042 | 230-30-095 | REP | 93-12-082 |
| 222-34-040 | AMD-P | 93-05-010 | 230-08-060 | AMD | 93-19-090 | 230-30-097 | NEW-P | 93-07-087 |
| 222-34-040 | AMD | 93-12-001 | 230-08-080 | AMD-P | 93-20-007 | 230-30-097 | NEW | 93-12-082 |
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| 222-38-020 | AMD | 93-12-001 | 230-08-090 | AMD-P | 93-06-036 | 230-30-100 | AMD | 93-12-082 |
| 222-38-030 | AMD-P | 93-05-010 | 230-08-090 | AMD | 93-10-005 | 230-30-106 | AMD-P | 93-06-036 |
| 222-38-030 | AMD | 93-12-001 | 230-08-095 | AMD-P | 93-10-042 | 230-30-106 | AMD | 93-10-005 |
| 222-46 | AMD-P | 93-20-077 | 230-08-095 | AMD | 93-13-062 | 230-30-300 | AMD-P | 93-06-036 |
| 222-46 | AMD | 94-01-134 | 230-08-105 | NEW-P | 93-20-007 | 230-30-300 | AMD | 93-10-005 |
| 222-46-010 | AMD-P | 93-20-077 | 230-08-105 | NEW | 94-01-034 | 230-30-998 | NEW-P | 93-20-005 |
| 222-46-010 | AMD | 94-01-134 | 230-08-140 | AMD-P | 93-20-006 | 230-30-998 | NEW | 94-01-032 |
| 222-46-020 | AMD-P | 93-05-010 | 230-08-140 | AMD | 94-01-033 | 230-40-055 | AMD-P | 93-07-082 |
| 222-46-020 | AMD | 93-12-001 | 230-08-150 | AMD-P | 93-20-006 | 230-40-055 | AMD | 93-12-082 |
| 222-46-020 | AMD-P | 93-20-077 | 230-08-150 | AMD | 94-01-033 | 230-40-120 | AMD-P | 93-04-044 |
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| 222-46-030 | AMD-P | 93-20-077 | 230-08-255 | NEW | 94-01-035 | 230-40-125 | AMD-P | 93-10-042 |
| 222-46-030 | AMD | 94-01-134 | 230-12-020 | AMD-P | 93-15-042 | 230-40-125 | AMD | 93-13-062 |
| 222-46-040 | AMD-P | 93-20-077 | 230-12-020 | AMD | 93-19-090 | 232-12-001 | AMD-P | 93-13-140 |
| 222-46-040 | AMD | 94-01-134 | 230-12-030 | AMD-P | 93-13-061 | 232-12-001 | AMD | 93-21-070 |
| 222-46-060 | AMD-P | 93-20-077 | 230-12-030 | AMD | 93-17-098 | 232-12-007 | AMD-P | 93-14-110 |
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| 222-46-065 | NEW-P | 93-20-077 | 230-12-078 | NEW | 94-01-035 | 232-12-007 | AMD | 93-21-025 |
| 222-46-065 | NEW | 94-01-134 | 230-20-010 | AMD-P | 93-10-042 | 232-12-011 | AMD-P | 93-14-111 |
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| 230-02-230 | AMD | 94-01-033 | 230-20-240 | AMD | 94-01-033 | 232-12-074 | REP | 93-04-075 |
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| 230-02-250 | AMD | 94-01-033 | 230-20-241 | AMD | 94-01-033 | 232-12-166 | NEW | 93-10-013 |
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| 230-02-278 | NEW | 94-01-035 | 230-20-243 | NEW | 94-01-033 | 232-12-619 | AMD | 93-10-054 |
| 230-02-400 | AMD-P | 93-13-061 | 230-20-246 | AMD-P | 93-10-042 | 232-12-619 | AMD-P | 93-13-140 |
| 230-02-400 | AMD | 93-17-098 | 230-20-246 | AMD | 93-13-062 | 232-12-619 | AMD | 93-21-070 |
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| 230-02-514 | NEW-P | 93-20-008 | 230-20-509 | NEW-P | 93-20-008 | 232-28-022 | AMD-P | 93-17-112 |
| 230-02-514 | NEW | 94-01-036 | 230-20-509 | NEW | 94-01-036 | 232-28-022 | AMD | 93-20-070 |
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| 230-04-110 | AMD | 94-01-033 | 230-20-630 | AMD | 94-01-036 | 232-28-228 | AMD | 93-11-014 |
| 230-04-120 | AMD-P | 93-20-006 | 230-20-670 | AMD-P | 93-07-082 | 232-28-233 | REP-P | 93-06-062 |
| 230-04-120 | AMD | 94-01-033 | 230-20-670 | AMD | 93-12-082 | 232-28-233 | REP | 93-11-011 |
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| 230-04-135 | AMD | 93-19-090 | 230-20-670 | AMD | 93-19-090 | 232-28-234 | REP | 93-11-012 |
| 230-04-138 | AMD-P | 93-15-042 | 230-20-685 | AMD-P | 93-07-082 | 232-28-235 | REP-P | 93-06-060 |
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| 230-04-201 | AMD | 93-19-090 | 230-20-700 | AMD | 94-01-036 | 232-28-236 | NEW | 93-11-013 |
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| 232-28-238 | NEW | 93-11-011 | 232-28-61933 | REP | 93-21-070 | 236-22-038 | NEW | 93-16-079 |
| 232-28-239 | NEW-P | 93-24-097 | 232-28-61934 | NEW-E | 93-06-061 | 236-22-040 | NEW-P | 93-09-030 |
| 232-28-416 | REP-P | 93-13-136 | 232-28-61935 | NEW-P | 93-06-057 | 236-22-040 | NEW | 93-16-079 |
| 232-28-416 | REP | 93-19-101 | 232-28-61935 | NEW | 93-10-056 | 236-22-050 | NEW-P | 93-09-030 |
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| 232-28-417 | NEW | 93-19-101 | 232-28-61935 | REP | 93-21-070 | 236-22-060 | NEW-P | 93-09-030 |
| 232-28-619 | AMD-P | 93-13-140 | 232-28-61936 | NEW-E | 93-12-002 | 236-22-060 | NEW | 93-16-079 |
| 232-28-619 | AMD | 93-21-070 | 232-28-61936 | NEW-P | 93-14-134 | 236-22-070 | NEW-P | 93-09-030 |
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| 232-28-61902 | REP | 93-21-070 | 232-28-61939 | NEW-E | 93-24-082 | 236-22-100 | AMD-P | 93-09-030 |
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| 232-28-61904 | REP | 93-21-070 | 232-28-61941 | NEW-P | 93-24-084 | 236-22-200 | NEW-P | 93-09-030 |
| 232-28-61905 | REP-P | 93-13-140 | 232-28-61942 | NEW-P | 93-24-085 | 236-22-200 | NEW | 93-16-079 |
| 232-28-61905 | REP | 93-21-070 | 236-14-010 | NEW-W | 93-05-041 | 236-22-210 | NEW-P | 93-09-030 |
| 232-28-61906 | REP-P | 93-13-140 | 236-14-010 | NEW-P | 93-09-068 | 236-22-210 | NEW | 93-16-079 |
| 232-28-61906 | REP | 93-21-070 | 236-14-010 | NEW-W | 93-10-090 | 240-10-030 | AMD-P | 93-20-097 |
| 232-28-61907 | REP-P | 93-13-140 | 236-14-010 | NEW-P | 93-15-126 | 240-10-030 | AMD | 94-01-038 |
| 232-28-61907 | REP | 93-21-070 | 236-14-010 | NEW | 93-20-027 | 240-20-010 | NEW-E | 93-22-050 |
| 232-28-61908 | REP-P | 93-13-140 | 236-14-015 | NEW-W | 93-05-041 | 240-20-020 | NEW-E | 93-22-050 |
| 232-28-61908 | REP | 93-21-070 | 236-14-015 | NEW-P | 93-09-068 | 240-20-030 | NEW-E | 93-22-050 |
| 232-28-61909 | REP-P | 93-13-140 | 236-14-015 | NEW-W | 93-10-090 | 240-20-030 | NEW-E | 93-23-072 |
| 232-28-61909 | REP | 93-21-070 | 236-14-015 | NEW-P | 93-15-126 | 240-20-040 | NEW-E | 93-22-050 |
| 232-28-61910 | REP-P | 93-13-140 | 236-14-015 | NEW | 93-20-027 | 240-20-050 | NEW-E | 93-22-050 |
| 232-28-61910 | REP | 93-21-070 | 236-14-050 | NEW-W | 93-05-041 | 240-20-060 | NEW-E | 93-22-050 |
| 232-28-61911 | REP-P | 93-13-140 | 236-14-050 | NEW-P | 93-09-068 | 240-20-070 | NEW-E | 93-22-050 |
| 232-28-61911 | REP | 93-21-070 | 236-14-050 | NEW-W | 93-10-090 | 240-20-080 | NEW-E | 93-22-050 |
| 232-28-61912 | REP-P | 93-13-140 | 236-14-050 | NEW-P | 93-15-126 | 240-20-090 | NEW-E | 93-22-050 |
| 232-28-61912 | REP | 93-21-070 | 236-14-050 | NEW | 93-20-027 | 240-20-100 | NEW-E | 93-22-050 |
| 232-28-61913 | REP-P | 93-13-140 | 236-14-100 | NEW-W | 93-05-041 | 240-20-110 | NEW-E | 93-22-050 |
| 232-28-61913 | REP | 93-21-070 | 236-14-100 | NEW-P | 93-09-068 | 240-20-120 | NEW-E | 93-22-050 |
| 232-28-61914 | NEW-W | 93-03-015 | 236-14-100 | NEW-W | 93-10-090 | 240-20-120 | NEW-E | 94-01-069 |
| 232-28-61916 | REP-P | 93-13-140 | 236-14-100 | NEW-P | 93-15-126 | 240-20-130 | NEW-E | 93-22-050 |
| 232-28-61916 | REP | 93-21-070 | 236-14-100 | NEW | 93-20-027 | 240-20-130 | NEW-E | 93-23-072 |
| 232-28-61917 | REP-P | 93-13-140 | 236-14-200 | NEW-W | 93-05-041 | 240-20-140 | NEW-E | 93-22-050 |
| 232-28-61917 | REP | 93-21-070 | 236-14-200 | NEW-P | 93-09-068 | 240-20-150 | NEW-E | 93-23-072 |
| 232-28-61918 | REP-P | 93-13-140 | 236-14-200 | NEW-W | 93-10-090 | 240-20-160 | NEW-E | 94-01-069 |
| 232-28-61918 | REP | 93-21-070 | 236-14-200 | NEW-P | 93-15-126 | 240-20-165 | NEW-E | 94-01-069 |
| 232-28-61919 | REP-P | 93-13-140 | 236-14-200 | NEW | 93-20-027 | 240-20-170 | NEW-E | 94-01-069 |
| 232-28-61919 | REP | 93-21-070 | 236-14-300 | NEW-W | 93-05-041 | 242-02 | PREP | 93-23-080 |
| 232-28-61923 | NEW | 93-04-046 | 236-14-300 | NEW-P | 93-09-068 | 242-02-040 | AMD-P | 94-01-097 |
| 232-28-61923 | REP-P | 93-13-140 | 236-14-300 | NEW-W | 93-10-090 | 242-02-052 | AMD-P | 94-01-097 |
| 232-28-61923 | REP | 93-21-070 | 236-14-300 | NEW-P | 93-15-126 | 242-02-072 | AMD-P | 94-01-097 |
| 232-28-61924 | NEW | 93-04-047 | 236-14-300 | NEW | 93-20-027 | 242-02-110 | AMD-P | 94-01-097 |
| 232-28-61924 | REP-P | 93-13-140 | 236-14-800 | NEW-P | 93-15-126 | 242-02-140 | AMD-P | 94-01-097 |
| 232-28-61924 | REP | 93-21-070 | 236-14-800 | NEW | 93-20-027 | 242-02-210 | AMD-P | 94-01-097 |
| 232-28-61925 | NEW | 93-04-049 | 236-14-900 | NEW-W | 93-05-041 | 242-02-220 | AMD-P | 93-08-032 |
| 232-28-61925 | REP-P | 93-13-140 | 236-14-900 | NEW-P | 93-09-068 | 242-02-220 | AMD | 93-11-068 |
| 232-28-61925 | REP | 93-21-070 | 236-14-900 | NEW-W | 93-10-090 | 242-02-220 | AMD-P | 94-01-097 |
| 232-28-61926 | NEW | 93-04-050 | 236-14-900 | NEW-P | 93-15-126 | 242-02-240 | AMD-P | 94-01-097 |
| 232-28-61926 | REP-P | 93-13-140 | 236-14-900 | NEW | 93-20-027 | 242-02-250 | AMD-P | 94-01-097 |
| 232-28-61926 | REP | 93-21-070 | 236-22-010 | AMD-P | 93-09-030 | 242-02-270 | AMD-P | 94-01-097 |
| 232-28-61927 | NEW | 93-04-051 | 236-22-010 | AMD | 93-16-079 | 242-02-280 | AMD-P | 94-01-097 |
| 232-28-61927 | REP-P | 93-13-140 | 236-22-020 | NEW-P | 93-09-030 | 242-02-310 | AMD-P | 94-01-097 |
| 232-28-61927 | REP | 93-21-070 | 236-22-020 | NEW | 93-16-079 | 242-02-320 | AMD-P | 94-01-097 |
| 232-28-61928 | NEW | 93-04-048 | 236-22-030 | NEW-P | 93-09-030 | 242-02-330 | AMD-P | 94-01-097 |
| 232-28-61928 | REP-P | 93-13-140 | 236-22-030 | NEW | 93-16-079 | 242-02-340 | AMD-P | 94-01-097 |
| 232-28-61928 | REP | 93-21-070 | 236-22-031 | NEW-P | 93-09-030 | 242-02-410 | AMD-P | 94-01-097 |
| 232-28-61929 | NEW | 93-04-052 | 236-22-031 | NEW | 93-16-079 | 242-02-440 | AMD-P | 94-01-097 |
| 232-28-61929 | REP-P | 93-13-140 | 236-22-032 | NEW-P | 93-09-030 | 242-02-510 | AMD-P | 94-01-097 |
| 232-28-61929 | REP | 93-21-070 | 236-22-032 | NEW | 93-16-079 | 242-02-520 | AMD-P | 94-01-097 |
| 232-28-61930 | NEW | 93-04-053 | 236-22-033 | NEW-P | 93-09-030 | 242-02-522 | AMD-P | 94-01-097 |
| 232-28-61930 | REP-P | 93-13-140 | 236-22-033 | NEW | 93-16-079 | 242-02-530 | AMD-P | 94-01-097 |
| 232-28-61930 | REP | 93-21-070 | 236-22-034 | NEW-P | 93-09-030 | 242-02-540 | AMD-P | 94-01-097 |
| 232-28-61931 | NEW-E | 93-03-039 | 236-22-034 | NEW | 93-16-079 | 242-02-550 | AMD-P | 94-01-097 |
| 232-28-61932 | NEW-P | 93-06-021 | 236-22-035 | NEW-P | 93-09-030 | 242-02-554 | AMD-P | 94-01-097 |
| 232-28-61932 | NEW | 93-10-055 | 236-22-035 | NEW | 93-16-079 | 242-02-558 | AMD-P | 94-01-097 |
| 232-28-61932 | REP-P | 93-13-140 | 236-22-036 | NEW-P | 93-09-030 | 242-02-562 | NEW-W | 93-06-045 |
| 232-28-61932 | REP | 93-21-070 | 236-22-036 | NEW | 93-16-079 | 242-02-570 | AMD-P | 94-01-097 |
| 232-28-61933 | NEW-P | 93-06-022 | 236-22-037 | NEW-P | 93-09-030 | 242-02-580 | AMD-P | 94-01-097 |
| 232-28-61933 | NEW | 93-10-053 | 236-22-037 | NEW | 93-16-079 | 242-02-620 | AMD-P | 94-01-097 |

Table of WAC Sections Affected

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|------------|-------|-----------|------------|-------|-----------|------------|-------|-----------|
| 242-02-680 | AMD-P | 94-01-097 | 246-08-101 | NEW | 93-13-005 | 246-10-109 | NEW | 93-13-005 |
| 242-02-830 | AMD-P | 94-01-097 | 246-08-102 | NEW-P | 93-08-071 | 246-10-109 | AMD-P | 93-24-106 |
| 242-02-850 | AMD-P | 94-01-097 | 246-08-102 | NEW | 93-13-005 | 246-10-110 | NEW-P | 93-08-071 |
| 242-02-880 | AMD-P | 94-01-097 | 246-08-103 | NEW-P | 93-08-071 | 246-10-110 | NEW | 93-13-005 |
| 242-02-892 | AMD-P | 94-01-097 | 246-08-103 | NEW | 93-13-005 | 246-10-110 | AMD-P | 93-24-106 |
| 242-02-910 | AMD-P | 94-01-097 | 246-08-104 | NEW-P | 93-08-071 | 246-10-111 | NEW-P | 93-08-071 |
| 242-02-920 | AMD-P | 94-01-097 | 246-08-104 | NEW | 93-13-005 | 246-10-111 | NEW | 93-13-005 |
| 242-04 | PREP | 93-23-080 | 246-08-105 | NEW-P | 93-08-071 | 246-10-112 | NEW-P | 93-08-071 |
| 242-04-050 | AMD-P | 94-01-097 | 246-08-105 | NEW | 93-13-005 | 246-10-112 | NEW | 93-13-005 |
| 244-12-060 | AMD-P | 93-07-038 | 246-08-106 | NEW-P | 93-08-071 | 246-10-113 | NEW-P | 93-08-071 |
| 244-12-060 | AMD-W | 93-09-049 | 246-08-106 | NEW | 93-13-005 | 246-10-113 | NEW | 93-13-005 |
| 244-12-060 | AMD-P | 93-09-053 | 246-08-110 | REP-P | 93-08-071 | 246-10-114 | NEW-P | 93-08-071 |
| 244-12-060 | AMD | 93-13-013 | 246-08-110 | REP | 93-13-005 | 246-10-114 | NEW | 93-13-005 |
| 244-12-100 | NEW-P | 93-07-038 | 246-08-120 | REP-P | 93-08-071 | 246-10-114 | AMD-P | 93-24-106 |
| 244-12-100 | NEW-W | 93-09-049 | 246-08-120 | REP | 93-13-005 | 246-10-115 | NEW-P | 93-08-071 |
| 244-12-100 | NEW-P | 93-09-053 | 246-08-130 | REP-P | 93-08-071 | 246-10-115 | NEW | 93-13-005 |
| 244-12-100 | NEW | 93-13-013 | 246-08-130 | REP | 93-13-005 | 246-10-115 | AMD-P | 93-24-106 |
| 245-01-010 | NEW-P | 94-01-141 | 246-08-140 | REP-P | 93-08-071 | 246-10-116 | NEW-P | 93-08-071 |
| 245-01-020 | NEW-P | 94-01-141 | 246-08-140 | REP | 93-13-005 | 246-10-116 | NEW | 93-13-005 |
| 245-01-030 | NEW-P | 94-01-141 | 246-08-150 | REP-P | 93-08-071 | 246-10-117 | NEW-P | 93-08-071 |
| 245-01-040 | NEW-P | 94-01-141 | 246-08-150 | REP | 93-13-005 | 246-10-117 | NEW | 93-13-005 |
| 245-01-050 | NEW-P | 94-01-141 | 246-08-160 | REP-P | 93-08-071 | 246-10-118 | NEW-P | 93-08-071 |
| 245-01-060 | NEW-P | 94-01-141 | 246-08-160 | REP | 93-13-005 | 246-10-118 | NEW | 93-13-005 |
| 245-01-070 | NEW-P | 94-01-141 | 246-08-170 | REP-P | 93-08-071 | 246-10-119 | NEW-P | 93-08-071 |
| 245-01-080 | NEW-P | 94-01-141 | 246-08-170 | REP | 93-13-005 | 246-10-119 | NEW | 93-13-005 |
| 245-01-090 | NEW-P | 94-01-141 | 246-08-180 | REP-P | 93-08-071 | 246-10-120 | NEW-P | 93-08-071 |
| 245-01-100 | NEW-P | 94-01-141 | 246-08-180 | REP | 93-13-005 | 246-10-120 | NEW | 93-13-005 |
| 245-01-110 | NEW-P | 94-01-141 | 246-08-190 | REP-P | 93-08-071 | 246-10-121 | NEW-P | 93-08-071 |
| 245-01-120 | NEW-P | 94-01-141 | 246-08-190 | REP | 93-13-005 | 246-10-121 | NEW | 93-13-005 |
| 245-01-130 | NEW-P | 94-01-141 | 246-08-200 | REP-P | 93-08-071 | 246-10-122 | NEW-P | 93-08-071 |
| 245-01-140 | NEW-P | 94-01-141 | 246-08-200 | REP | 93-13-005 | 246-10-122 | NEW | 93-13-005 |
| 245-01-150 | NEW-P | 94-01-141 | 246-08-210 | REP-P | 93-08-071 | 246-10-123 | NEW-P | 93-08-071 |
| 246-01-001 | NEW | 93-08-004 | 246-08-210 | REP | 93-13-005 | 246-10-123 | NEW | 93-13-005 |
| 246-01-010 | NEW | 93-08-004 | 246-08-320 | REP-P | 93-08-071 | 246-10-123 | AMD-P | 93-24-106 |
| 246-01-020 | NEW | 93-08-004 | 246-08-320 | REP | 93-13-005 | 246-10-124 | NEW-P | 93-08-071 |
| 246-01-030 | NEW | 93-08-004 | 246-08-330 | REP-P | 93-08-071 | 246-10-124 | NEW | 93-13-005 |
| 246-01-040 | NEW | 93-08-004 | 246-08-330 | REP | 93-13-005 | 246-10-124 | AMD-P | 93-24-106 |
| 246-01-050 | NEW | 93-08-004 | 246-08-340 | REP-P | 93-08-071 | 246-10-201 | NEW-P | 93-08-071 |
| 246-01-060 | NEW | 93-08-004 | 246-08-340 | REP | 93-13-005 | 246-10-201 | NEW | 93-13-005 |
| 246-01-070 | NEW | 93-08-004 | 246-08-350 | REP-P | 93-08-071 | 246-10-201 | AMD-P | 93-24-106 |
| 246-01-080 | NEW | 93-08-004 | 246-08-350 | REP | 93-13-005 | 246-10-202 | NEW-P | 93-08-071 |
| 246-01-090 | NEW | 93-08-004 | 246-08-360 | REP-P | 93-08-071 | 246-10-202 | NEW | 93-13-005 |
| 246-01-100 | NEW | 93-08-004 | 246-08-360 | REP | 93-13-005 | 246-10-202 | AMD-P | 93-24-106 |
| 246-05-001 | NEW-E | 93-15-012 | 246-08-370 | REP-P | 93-08-071 | 246-10-203 | NEW-P | 93-08-071 |
| 246-05-001 | NEW-P | 93-15-091 | 246-08-370 | REP | 93-13-005 | 246-10-203 | NEW | 93-13-005 |
| 246-05-001 | NEW | 93-19-061 | 246-08-380 | REP-P | 93-08-071 | 246-10-203 | AMD-P | 93-24-106 |
| 246-05-010 | NEW-E | 93-15-012 | 246-08-380 | REP | 93-13-005 | 246-10-204 | NEW-P | 93-08-071 |
| 246-05-010 | NEW-P | 93-15-091 | 246-08-420 | NEW | 93-08-004 | 246-10-204 | NEW | 93-13-005 |
| 246-05-010 | NEW | 93-19-061 | 246-08-440 | NEW | 93-08-004 | 246-10-204 | AMD-P | 93-24-106 |
| 246-05-030 | NEW-E | 93-15-012 | 246-08-450 | NEW | 93-08-004 | 246-10-205 | NEW-P | 93-08-071 |
| 246-05-030 | NEW-P | 93-15-091 | 246-08-450 | AMD-P | 93-24-106 | 246-10-205 | NEW | 93-13-005 |
| 246-05-030 | NEW | 93-19-061 | 246-08-520 | AMD | 93-08-004 | 246-10-205 | AMD-P | 93-24-106 |
| 246-08-001 | REP-P | 93-08-071 | 246-08-560 | AMD | 93-08-004 | 246-10-301 | NEW-P | 93-08-071 |
| 246-08-001 | REP | 93-13-005 | 246-10-101 | NEW-P | 93-08-071 | 246-10-301 | NEW | 93-13-005 |
| 246-08-020 | REP-P | 93-08-071 | 246-10-101 | NEW | 93-13-005 | 246-10-302 | NEW-P | 93-08-071 |
| 246-08-020 | REP | 93-13-005 | 246-10-102 | NEW-P | 93-08-071 | 246-10-302 | NEW | 93-13-005 |
| 246-08-030 | REP-P | 93-08-071 | 246-10-102 | NEW | 93-13-005 | 246-10-303 | NEW-P | 93-08-071 |
| 246-08-030 | REP | 93-13-005 | 246-10-102 | AMD-P | 93-24-106 | 246-10-303 | NEW | 93-13-005 |
| 246-08-040 | REP-P | 93-08-071 | 246-10-103 | NEW-P | 93-08-071 | 246-10-303 | AMD-P | 93-24-106 |
| 246-08-040 | REP | 93-13-005 | 246-10-103 | NEW | 93-13-005 | 246-10-304 | NEW-P | 93-08-071 |
| 246-08-050 | REP-P | 93-08-071 | 246-10-103 | AMD-P | 93-24-106 | 246-10-304 | NEW | 93-13-005 |
| 246-08-050 | REP | 93-13-005 | 246-10-104 | NEW-P | 93-08-071 | 246-10-304 | AMD-P | 93-24-106 |
| 246-08-060 | REP-P | 93-08-071 | 246-10-104 | NEW | 93-13-005 | 246-10-305 | NEW-P | 93-08-071 |
| 246-08-060 | REP | 93-13-005 | 246-10-105 | NEW-P | 93-08-071 | 246-10-305 | NEW | 93-13-005 |
| 246-08-070 | REP-P | 93-08-071 | 246-10-105 | NEW | 93-13-005 | 246-10-305 | AMD-P | 93-24-106 |
| 246-08-070 | REP | 93-13-005 | 246-10-106 | NEW-P | 93-08-071 | 246-10-306 | NEW-P | 93-08-071 |
| 246-08-080 | REP-P | 93-08-071 | 246-10-106 | NEW | 93-13-005 | 246-10-306 | NEW | 93-13-005 |
| 246-08-080 | REP | 93-13-005 | 246-10-107 | NEW-P | 93-08-071 | 246-10-401 | NEW-P | 93-08-071 |
| 246-08-090 | REP-P | 93-08-071 | 246-10-107 | NEW | 93-13-005 | 246-10-401 | NEW | 93-13-005 |
| 246-08-090 | REP | 93-13-005 | 246-10-107 | AMD-P | 93-24-106 | 246-10-401 | AMD-P | 93-24-106 |
| 246-08-100 | REP-P | 93-08-071 | 246-10-108 | NEW-P | 93-08-071 | 246-10-402 | NEW-P | 93-08-071 |
| 246-08-100 | REP | 93-13-005 | 246-10-108 | NEW | 93-13-005 | 246-10-402 | NEW | 93-13-005 |
| 246-08-101 | NEW-P | 93-08-071 | 246-10-109 | NEW-P | 93-08-071 | 246-10-402 | AMD-P | 93-24-106 |

TABLE

Table of WAC Sections Affected

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|------------|-------|-----------|------------|-------|-----------|------------|-------|-----------|
| 246-10-403 | NEW-P | 93-08-071 | 246-11-050 | NEW-P | 93-04-102 | 246-11-330 | NEW-P | 93-04-102 |
| 246-10-403 | NEW | 93-13-005 | 246-11-050 | NEW | 93-08-003 | 246-11-330 | NEW | 93-08-003 |
| 246-10-403 | AMD-P | 93-24-106 | 246-11-050 | AMD-P | 93-24-105 | 246-11-330 | AMD-P | 93-24-105 |
| 246-10-404 | NEW-P | 93-08-071 | 246-11-060 | NEW-P | 93-04-102 | 246-11-340 | NEW-P | 93-04-102 |
| 246-10-404 | NEW | 93-13-005 | 246-11-060 | NEW | 93-08-003 | 246-11-340 | NEW | 93-08-003 |
| 246-10-404 | AMD-P | 93-24-106 | 246-11-060 | AMD-P | 93-24-105 | 246-11-340 | AMD-P | 93-24-105 |
| 246-10-405 | NEW-P | 93-08-071 | 246-11-070 | NEW-P | 93-04-102 | 246-11-350 | NEW-P | 93-04-102 |
| 246-10-405 | NEW | 93-13-005 | 246-11-070 | NEW | 93-08-003 | 246-11-350 | NEW | 93-08-003 |
| 246-10-501 | NEW-P | 93-08-071 | 246-11-080 | NEW-P | 93-04-102 | 246-11-360 | NEW-P | 93-04-102 |
| 246-10-501 | NEW | 93-13-005 | 246-11-080 | NEW | 93-08-003 | 246-11-360 | NEW | 93-08-003 |
| 246-10-501 | AMD-P | 93-24-106 | 246-11-080 | AMD-P | 93-24-105 | 246-11-360 | AMD-P | 93-24-105 |
| 246-10-502 | NEW-P | 93-08-071 | 246-11-090 | NEW-P | 93-04-102 | 246-11-370 | NEW-P | 93-04-102 |
| 246-10-502 | NEW | 93-13-005 | 246-11-090 | NEW | 93-08-003 | 246-11-370 | NEW | 93-08-003 |
| 246-10-502 | AMD-P | 93-24-106 | 246-11-090 | AMD-P | 93-24-105 | 246-11-370 | AMD-P | 93-24-105 |
| 246-10-503 | NEW-P | 93-08-071 | 246-11-100 | NEW-P | 93-04-102 | 246-11-380 | NEW-P | 93-04-102 |
| 246-10-503 | NEW | 93-13-005 | 246-11-100 | NEW | 93-08-003 | 246-11-380 | NEW | 93-08-003 |
| 246-10-503 | AMD-P | 93-24-106 | 246-11-100 | AMD-P | 93-24-105 | 246-11-380 | AMD-P | 93-24-105 |
| 246-10-504 | NEW-P | 93-08-071 | 246-11-110 | NEW-P | 93-04-102 | 246-11-390 | NEW-P | 93-04-102 |
| 246-10-504 | NEW | 93-13-005 | 246-11-110 | NEW | 93-08-003 | 246-11-390 | NEW | 93-08-003 |
| 246-10-504 | AMD-P | 93-24-106 | 246-11-110 | AMD-P | 93-24-105 | 246-11-390 | AMD-P | 93-24-105 |
| 246-10-505 | NEW-P | 93-08-071 | 246-11-120 | NEW-P | 93-04-102 | 246-11-400 | NEW-P | 93-04-102 |
| 246-10-505 | NEW | 93-13-005 | 246-11-120 | NEW | 93-08-003 | 246-11-400 | NEW | 93-08-003 |
| 246-10-601 | NEW-P | 93-08-071 | 246-11-130 | NEW-P | 93-04-102 | 246-11-400 | AMD-P | 93-24-105 |
| 246-10-601 | NEW | 93-13-005 | 246-11-130 | NEW | 93-08-003 | 246-11-420 | NEW-P | 93-04-102 |
| 246-10-602 | NEW-P | 93-08-071 | 246-11-130 | AMD-P | 93-24-105 | 246-11-420 | NEW | 93-08-003 |
| 246-10-602 | NEW | 93-13-005 | 246-11-140 | NEW-P | 93-04-102 | 246-11-420 | AMD-P | 93-24-105 |
| 246-10-603 | NEW-P | 93-08-071 | 246-11-140 | NEW | 93-08-003 | 246-11-425 | NEW-P | 93-24-105 |
| 246-10-603 | NEW | 93-13-005 | 246-11-140 | AMD-P | 93-24-105 | 246-11-430 | NEW-P | 93-04-102 |
| 246-10-604 | NEW-P | 93-08-071 | 246-11-150 | NEW-P | 93-04-102 | 246-11-430 | NEW | 93-08-003 |
| 246-10-604 | NEW | 93-13-005 | 246-11-150 | NEW | 93-08-003 | 246-11-430 | AMD-P | 93-24-105 |
| 246-10-604 | AMD-P | 93-24-106 | 246-11-160 | NEW-P | 93-04-102 | 246-11-440 | NEW-P | 93-04-102 |
| 246-10-605 | NEW-P | 93-08-071 | 246-11-160 | NEW | 93-08-003 | 246-11-440 | NEW | 93-08-003 |
| 246-10-605 | NEW | 93-13-005 | 246-11-160 | AMD-P | 93-24-105 | 246-11-440 | AMD-P | 93-24-105 |
| 246-10-606 | NEW-P | 93-08-071 | 246-11-170 | NEW-P | 93-04-102 | 246-11-450 | NEW-P | 93-04-102 |
| 246-10-606 | NEW | 93-13-005 | 246-11-170 | NEW | 93-08-003 | 246-11-450 | NEW | 93-08-003 |
| 246-10-607 | NEW-P | 93-08-071 | 246-11-180 | NEW-P | 93-04-102 | 246-11-450 | AMD-P | 93-24-105 |
| 246-10-607 | NEW | 93-13-005 | 246-11-180 | NEW | 93-08-003 | 246-11-470 | NEW-P | 93-04-102 |
| 246-10-607 | AMD-P | 93-24-106 | 246-11-180 | AMD-P | 93-24-105 | 246-11-470 | NEW | 93-08-003 |
| 246-10-608 | NEW-P | 93-08-071 | 246-11-190 | NEW-P | 93-04-102 | 246-11-480 | NEW-P | 93-04-102 |
| 246-10-608 | NEW | 93-13-005 | 246-11-190 | NEW | 93-08-003 | 246-11-480 | NEW | 93-08-003 |
| 246-10-701 | NEW-P | 93-08-071 | 246-11-200 | NEW-P | 93-04-102 | 246-11-480 | AMD-P | 93-24-105 |
| 246-10-701 | NEW | 93-13-005 | 246-11-200 | NEW | 93-08-003 | 246-11-490 | NEW-P | 93-04-102 |
| 246-10-701 | AMD-P | 93-24-106 | 246-11-210 | NEW-P | 93-04-102 | 246-11-490 | NEW | 93-08-003 |
| 246-10-702 | NEW-P | 93-08-071 | 246-11-210 | NEW | 93-08-003 | 246-11-500 | NEW-P | 93-04-102 |
| 246-10-702 | NEW | 93-13-005 | 246-11-220 | NEW-P | 93-04-102 | 246-11-500 | NEW | 93-08-003 |
| 246-10-702 | AMD-P | 93-24-106 | 246-11-220 | NEW | 93-08-003 | 246-11-500 | AMD-P | 93-24-105 |
| 246-10-703 | NEW-P | 93-08-071 | 246-11-220 | AMD-P | 93-24-105 | 246-11-510 | NEW-P | 93-04-102 |
| 246-10-703 | NEW | 93-13-005 | 246-11-230 | NEW-P | 93-04-102 | 246-11-510 | NEW | 93-08-003 |
| 246-10-704 | NEW-P | 93-08-071 | 246-11-230 | NEW | 93-08-003 | 246-11-510 | AMD-P | 93-24-105 |
| 246-10-704 | NEW | 93-13-005 | 246-11-230 | AMD-P | 93-24-105 | 246-11-520 | NEW-P | 93-04-102 |
| 246-10-704 | AMD-P | 93-24-106 | 246-11-250 | NEW-P | 93-04-102 | 246-11-520 | NEW | 93-08-003 |
| 246-10-705 | NEW-P | 93-08-071 | 246-11-250 | NEW | 93-08-003 | 246-11-530 | NEW-P | 93-04-102 |
| 246-10-705 | NEW | 93-13-005 | 246-11-250 | AMD-P | 93-24-105 | 246-11-530 | NEW | 93-08-003 |
| 246-10-705 | AMD-P | 93-24-106 | 246-11-260 | NEW-P | 93-04-102 | 246-11-530 | AMD-P | 93-24-105 |
| 246-10-706 | NEW-P | 93-08-071 | 246-11-260 | NEW | 93-08-003 | 246-11-540 | NEW-P | 93-04-102 |
| 246-10-706 | NEW | 93-13-005 | 246-11-260 | AMD-P | 93-24-105 | 246-11-540 | NEW | 93-08-003 |
| 246-10-706 | AMD-P | 93-24-106 | 246-11-270 | NEW-P | 93-04-102 | 246-11-540 | AMD-P | 93-24-105 |
| 246-10-707 | NEW-P | 93-08-071 | 246-11-270 | NEW | 93-08-003 | 246-11-550 | NEW-P | 93-04-102 |
| 246-10-707 | NEW | 93-13-005 | 246-11-270 | AMD-P | 93-24-105 | 246-11-550 | NEW | 93-08-003 |
| 246-10-707 | AMD-P | 93-24-106 | 246-11-280 | NEW-P | 93-04-102 | 246-11-560 | NEW-P | 93-04-102 |
| 246-11-001 | NEW-P | 93-04-102 | 246-11-280 | NEW | 93-08-003 | 246-11-560 | NEW | 93-08-003 |
| 246-11-001 | NEW | 93-08-003 | 246-11-280 | AMD-P | 93-24-105 | 246-11-560 | AMD-P | 93-24-105 |
| 246-11-010 | NEW-P | 93-04-102 | 246-11-290 | NEW-P | 93-04-102 | 246-11-570 | NEW-P | 93-04-102 |
| 246-11-010 | NEW | 93-08-003 | 246-11-290 | NEW | 93-08-003 | 246-11-570 | NEW | 93-08-003 |
| 246-11-010 | AMD-P | 93-24-105 | 246-11-290 | AMD-P | 93-24-105 | 246-11-580 | NEW-P | 93-04-102 |
| 246-11-020 | NEW-P | 93-04-102 | 246-11-300 | NEW-P | 93-04-102 | 246-11-580 | NEW | 93-08-003 |
| 246-11-020 | NEW | 93-08-003 | 246-11-300 | NEW | 93-08-003 | 246-11-580 | AMD-P | 93-24-105 |
| 246-11-020 | AMD-P | 93-24-105 | 246-11-300 | AMD-P | 93-24-105 | 246-11-590 | NEW-P | 93-04-102 |
| 246-11-030 | NEW-P | 93-04-102 | 246-11-310 | NEW-P | 93-04-102 | 246-11-590 | NEW | 93-08-003 |
| 246-11-030 | NEW | 93-08-003 | 246-11-310 | NEW | 93-08-003 | 246-11-590 | AMD-P | 93-24-105 |
| 246-11-030 | AMD-P | 93-24-105 | 246-11-320 | NEW-P | 93-04-102 | 246-11-600 | NEW-P | 93-04-102 |
| 246-11-040 | NEW-P | 93-04-102 | 246-11-320 | NEW | 93-08-003 | 246-11-600 | NEW | 93-08-003 |
| 246-11-040 | NEW | 93-08-003 | 246-11-320 | AMD-P | 93-24-105 | 246-11-600 | AMD-P | 93-24-105 |

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| 246-11-610 | NEW-P | 93-04-102 | 246-221-106 | NEW | 94-01-073 | 246-225-160 | AMD | 94-01-073 |
| 246-11-610 | NEW | 93-08-003 | 246-221-110 | AMD-P | 93-19-048 | 246-225-99910 | AMD-P | 93-19-048 |
| 246-11-610 | AMD-P | 93-24-105 | 246-221-110 | AMD | 94-01-073 | 246-225-99910 | AMD | 94-01-073 |
| 246-100-011 | AMD-P | 93-03-003 | 246-221-113 | NEW-P | 93-19-048 | 246-227-001 | NEW-P | 93-19-048 |
| 246-100-011 | AMD | 93-08-036 | 246-221-113 | NEW | 94-01-073 | 246-227-001 | NEW | 94-01-073 |
| 246-100-041 | AMD-P | 93-03-003 | 246-221-117 | NEW-P | 93-19-048 | 246-227-010 | NEW-P | 93-19-048 |
| 246-100-041 | AMD | 93-08-036 | 246-221-117 | NEW | 94-01-073 | 246-227-010 | NEW | 94-01-073 |
| 246-100-042 | NEW-P | 93-06-094 | 246-221-120 | AMD-P | 93-19-048 | 246-227-020 | NEW-P | 93-19-048 |
| 246-100-042 | NEW | 93-10-038 | 246-221-120 | AMD | 94-01-073 | 246-227-020 | NEW | 94-01-073 |
| 246-100-076 | AMD-P | 93-03-003 | 246-221-130 | AMD-P | 93-19-048 | 246-227-030 | NEW-P | 93-19-048 |
| 246-100-076 | AMD | 93-08-036 | 246-221-130 | AMD | 94-01-073 | 246-227-040 | NEW-P | 93-19-048 |
| 246-100-236 | AMD-P | 93-03-003 | 246-221-150 | AMD-P | 93-19-048 | 246-227-040 | NEW | 94-01-073 |
| 246-100-236 | AMD | 93-08-036 | 246-221-150 | AMD | 94-01-073 | 246-227-050 | NEW-P | 93-19-048 |
| 246-130-040 | AMD-E | 93-04-015 | 246-221-160 | AMD-P | 93-19-048 | 246-227-050 | NEW | 94-01-073 |
| 246-130-040 | AMD-P | 93-06-095 | 246-221-160 | AMD | 94-01-073 | 246-227-060 | NEW-P | 93-19-048 |
| 246-130-040 | AMD-W | 93-11-006 | 246-221-170 | AMD-P | 93-19-048 | 246-227-060 | NEW | 94-01-073 |
| 246-130-070 | AMD-E | 93-04-015 | 246-221-170 | AMD | 94-01-073 | 246-227-070 | NEW-P | 93-19-048 |
| 246-130-070 | AMD-P | 93-06-095 | 246-221-180 | AMD-P | 93-19-048 | 246-227-070 | NEW | 94-01-073 |
| 246-130-070 | AMD-W | 93-11-006 | 246-221-180 | AMD | 94-01-073 | 246-227-080 | NEW-P | 93-19-048 |
| 246-132-020 | REP-P | 94-01-057 | 246-221-190 | AMD-P | 93-19-048 | 246-227-080 | NEW | 94-01-073 |
| 246-132-030 | REP-P | 94-01-057 | 246-221-190 | AMD | 94-01-073 | 246-227-090 | NEW-P | 93-19-048 |
| 246-201-005 | NEW-W | 93-11-075 | 246-221-220 | AMD-P | 93-19-048 | 246-227-090 | NEW | 94-01-073 |
| 246-203-005 | NEW-W | 93-11-075 | 246-221-220 | AMD | 94-01-073 | 246-227-095 | NEW-P | 93-19-048 |
| 246-205-005 | NEW-W | 93-11-075 | 246-221-230 | AMD-P | 93-19-048 | 246-227-095 | NEW | 94-01-073 |
| 246-215-005 | NEW-W | 93-11-075 | 246-221-230 | AMD | 94-01-073 | 246-227-100 | NEW-P | 93-19-048 |
| 246-217-005 | NEW-W | 93-11-075 | 246-221-240 | AMD-P | 93-19-048 | 246-227-120 | NEW-P | 93-19-048 |
| 246-220-002 | AMD-P | 93-19-048 | 246-221-240 | AMD | 94-01-073 | 246-227-120 | NEW | 94-01-073 |
| 246-220-002 | AMD | 94-01-073 | 246-221-250 | AMD-P | 93-19-048 | 246-227-130 | NEW-P | 93-19-048 |
| 246-220-007 | AMD-P | 93-19-048 | 246-221-250 | AMD | 94-01-073 | 246-227-130 | NEW | 94-01-073 |
| 246-220-007 | AMD | 94-01-073 | 246-221-260 | AMD-P | 93-19-048 | 246-227-150 | NEW-P | 93-19-048 |
| 246-220-010 | AMD-P | 93-19-048 | 246-221-260 | AMD | 94-01-073 | 246-227-150 | NEW | 94-01-073 |
| 246-220-010 | AMD | 94-01-073 | 246-221-265 | NEW-P | 93-19-048 | 246-227-170 | NEW-P | 93-19-048 |
| 246-220-080 | AMD-P | 93-19-048 | 246-221-265 | NEW | 94-01-073 | 246-227-170 | NEW | 94-01-073 |
| 246-220-080 | AMD | 94-01-073 | 246-221-270 | AMD-P | 93-19-048 | 246-235-055 | NEW-P | 93-19-048 |
| 246-220-090 | AMD-P | 93-19-048 | 246-221-270 | AMD | 94-01-073 | 246-235-055 | NEW | 94-01-073 |
| 246-220-090 | AMD | 94-01-073 | 246-221-275 | NEW-P | 93-19-048 | 246-235-130 | AMD-P | 93-19-048 |
| 246-220-120 | AMD-P | 93-19-048 | 246-221-275 | NEW | 94-01-073 | 246-235-130 | AMD | 94-01-073 |
| 246-220-120 | AMD | 94-01-073 | 246-221-285 | NEW-P | 93-19-048 | 246-239-020 | AMD-P | 93-19-048 |
| 246-220-130 | AMD-P | 93-19-048 | 246-221-285 | NEW | 94-01-073 | 246-239-020 | AMD-C | 94-01-059 |
| 246-220-130 | AMD | 94-01-073 | 246-221-290 | AMD-P | 93-19-048 | 246-239-022 | NEW-P | 93-19-048 |
| 246-221-001 | AMD-P | 93-19-048 | 246-221-290 | AMD | 94-01-073 | 246-239-022 | NEW-C | 94-01-059 |
| 246-221-001 | AMD | 94-01-073 | 246-221-300 | AMD-P | 93-19-048 | 246-239-030 | AMD-P | 93-19-048 |
| 246-221-005 | NEW-P | 93-19-048 | 246-221-300 | AMD | 94-01-073 | 246-239-030 | AMD-C | 94-01-059 |
| 246-221-005 | NEW | 94-01-073 | 246-222-020 | AMD-P | 93-19-048 | 246-239-035 | NEW-P | 93-19-048 |
| 246-221-010 | AMD-P | 93-19-048 | 246-222-020 | AMD | 94-01-073 | 246-239-035 | NEW-C | 94-01-059 |
| 246-221-010 | AMD | 94-01-073 | 246-222-030 | AMD-P | 93-19-048 | 246-239-050 | AMD-P | 93-19-048 |
| 246-221-015 | NEW-P | 93-19-048 | 246-222-030 | AMD | 94-01-073 | 246-239-050 | AMD-C | 94-01-059 |
| 246-221-015 | NEW | 94-01-073 | 246-222-040 | AMD-P | 93-19-048 | 246-239-070 | AMD-P | 93-19-048 |
| 246-221-020 | AMD-P | 93-19-048 | 246-222-040 | AMD | 94-01-073 | 246-239-070 | AMD-C | 94-01-059 |
| 246-221-020 | AMD | 94-01-073 | 246-222-070 | AMD-P | 93-19-048 | 246-239-080 | AMD-P | 93-19-048 |
| 246-221-030 | AMD-P | 93-19-048 | 246-222-070 | AMD | 94-01-073 | 246-239-080 | AMD-C | 94-01-059 |
| 246-221-030 | AMD | 94-01-073 | 246-222-080 | AMD-P | 93-19-048 | 246-239-090 | AMD-P | 93-19-048 |
| 246-221-040 | AMD-P | 93-19-048 | 246-222-080 | AMD | 94-01-073 | 246-239-090 | AMD-C | 94-01-059 |
| 246-221-040 | AMD | 94-01-073 | 246-224-030 | REP-P | 93-19-048 | 246-239-100 | AMD-P | 93-19-048 |
| 246-221-050 | AMD-P | 93-19-048 | 246-224-030 | REP | 94-01-073 | 246-239-100 | AMD-C | 94-01-059 |
| 246-221-050 | AMD | 94-01-073 | 246-224-040 | AMD-P | 93-19-048 | 246-240-020 | AMD-P | 93-19-048 |
| 246-221-055 | NEW-P | 93-19-048 | 246-224-040 | AMD | 94-01-073 | 246-240-020 | AMD-C | 94-01-059 |
| 246-221-055 | NEW | 94-01-073 | 246-224-050 | AMD-P | 93-19-048 | 246-243-010 | AMD-P | 93-19-048 |
| 246-221-060 | AMD-P | 93-19-048 | 246-224-050 | AMD | 94-01-073 | 246-243-010 | AMD | 94-01-073 |
| 246-221-060 | AMD | 94-01-073 | 246-224-070 | AMD-P | 93-19-048 | 246-243-020 | AMD-P | 93-19-048 |
| 246-221-070 | AMD-P | 93-19-048 | 246-224-070 | AMD | 94-01-073 | 246-243-020 | AMD | 94-01-073 |
| 246-221-070 | AMD | 94-01-073 | 246-225-020 | AMD-P | 93-19-048 | 246-243-040 | AMD-P | 93-19-048 |
| 246-221-080 | AMD-P | 93-19-048 | 246-225-020 | AMD-C | 94-01-059 | 246-243-040 | AMD | 94-01-073 |
| 246-221-080 | AMD | 94-01-073 | 246-225-030 | AMD-P | 93-19-048 | 246-243-070 | AMD-P | 93-19-048 |
| 246-221-090 | AMD-P | 93-19-048 | 246-225-030 | AMD | 94-01-073 | 246-243-070 | AMD | 94-01-073 |
| 246-221-090 | AMD | 94-01-073 | 246-225-040 | AMD-P | 93-19-048 | 246-243-080 | AMD-P | 93-19-048 |
| 246-221-100 | AMD-P | 93-19-048 | 246-225-040 | AMD | 94-01-073 | 246-243-080 | AMD | 94-01-073 |
| 246-221-100 | AMD | 94-01-073 | 246-225-050 | AMD-P | 93-19-048 | 246-243-090 | AMD-P | 93-19-048 |
| 246-221-102 | NEW-P | 93-19-048 | 246-225-050 | AMD-C | 94-01-059 | 246-243-090 | AMD | 94-01-073 |
| 246-221-102 | NEW | 94-01-073 | 246-225-050 | AMD | 94-01-073 | 246-243-100 | AMD-P | 93-19-048 |
| 246-221-104 | NEW-P | 93-19-048 | 246-225-150 | AMD-P | 93-19-048 | 246-243-100 | AMD | 94-01-073 |
| 246-221-104 | NEW | 94-01-073 | 246-225-150 | AMD | 94-01-073 | 246-243-110 | AMD-P | 93-19-048 |
| 246-221-106 | NEW-P | 93-19-048 | 246-225-160 | AMD-P | 93-19-048 | 246-243-110 | AMD | 94-01-073 |

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| 246-243-120 | AMD | 94-01-073 | 246-272-01001 | NEW-P | 93-21-062 | 246-290-120 | AMD | 93-08-011 |
| 246-243-130 | AMD-P | 93-19-048 | 246-272-020 | REP-P | 93-21-062 | 246-290-130 | AMD-P | 93-04-122 |
| 246-243-130 | AMD | 94-01-073 | 246-272-02001 | NEW-P | 93-21-062 | 246-290-130 | AMD | 93-08-011 |
| 246-243-140 | AMD-P | 93-19-048 | 246-272-030 | REP-P | 93-21-062 | 246-290-135 | NEW-P | 93-04-122 |
| 246-243-140 | AMD | 94-01-073 | 246-272-03001 | NEW-P | 93-21-062 | 246-290-135 | NEW | 93-08-011 |
| 246-243-150 | AMD-P | 93-19-048 | 246-272-040 | REP-P | 93-21-062 | 246-290-200 | AMD-P | 93-04-122 |
| 246-243-150 | AMD | 94-01-073 | 246-272-04001 | NEW-P | 93-21-062 | 246-290-200 | AMD | 93-08-011 |
| 246-243-160 | AMD-P | 93-19-048 | 246-272-050 | REP-P | 93-21-062 | 246-290-210 | REP-P | 93-04-122 |
| 246-243-160 | AMD | 94-01-073 | 246-272-05001 | NEW-P | 93-21-062 | 246-290-210 | REP | 93-08-011 |
| 246-243-170 | AMD-P | 93-19-048 | 246-272-060 | REP-P | 93-21-062 | 246-290-230 | AMD-P | 93-04-122 |
| 246-243-170 | AMD | 94-01-073 | 246-272-070 | REP-P | 93-21-062 | 246-290-230 | AMD | 93-08-011 |
| 246-243-180 | AMD-P | 93-19-048 | 246-272-07001 | NEW-P | 93-21-062 | 246-290-250 | AMD-P | 93-04-122 |
| 246-243-180 | AMD | 94-01-073 | 246-272-080 | REP-P | 93-21-062 | 246-290-250 | AMD | 93-08-011 |
| 246-243-190 | AMD-P | 93-19-048 | 246-272-08001 | NEW-P | 93-21-062 | 246-290-300 | AMD-P | 93-04-122 |
| 246-243-190 | AMD | 94-01-073 | 246-272-090 | REP-P | 93-21-062 | 246-290-300 | AMD | 93-08-011 |
| 246-243-195 | NEW-P | 93-19-048 | 246-272-09001 | NEW-P | 93-21-062 | 246-290-310 | AMD-P | 93-04-122 |
| 246-243-195 | NEW | 94-01-073 | 246-272-09501 | NEW-P | 93-21-062 | 246-290-310 | AMD | 93-08-011 |
| 246-243-200 | AMD-P | 93-19-048 | 246-272-100 | REP-P | 93-21-062 | 246-290-320 | AMD-P | 93-04-122 |
| 246-243-200 | AMD | 94-01-073 | 246-272-110 | REP-P | 93-21-062 | 246-290-320 | AMD | 93-08-011 |
| 246-243-205 | NEW-P | 93-19-048 | 246-272-11001 | NEW-P | 93-21-062 | 246-290-330 | AMD-P | 93-04-122 |
| 246-243-205 | NEW | 94-01-073 | 246-272-11501 | NEW-P | 93-21-062 | 246-290-330 | AMD | 93-08-011 |
| 246-243-210 | AMD-P | 93-19-048 | 246-272-120 | REP-P | 93-21-062 | 246-290-400 | REP-P | 93-04-122 |
| 246-243-210 | AMD | 94-01-073 | 246-272-12501 | NEW-P | 93-21-062 | 246-290-400 | REP | 93-08-011 |
| 246-243-220 | AMD-P | 93-19-048 | 246-272-130 | REP-P | 93-21-062 | 246-290-420 | AMD-P | 93-04-122 |
| 246-243-220 | AMD | 94-01-073 | 246-272-13501 | NEW-P | 93-21-062 | 246-290-420 | AMD | 93-08-011 |
| 246-243-230 | AMD-P | 93-19-048 | 246-272-140 | REP-P | 93-21-062 | 246-290-440 | AMD-P | 93-04-122 |
| 246-243-230 | AMD | 94-01-073 | 246-272-14501 | NEW-P | 93-21-062 | 246-290-440 | AMD | 93-08-011 |
| 246-243-240 | AMD-P | 93-19-048 | 246-272-150 | REP-P | 93-21-062 | 246-290-450 | REP-P | 93-04-122 |
| 246-243-240 | AMD | 94-01-073 | 246-272-15501 | NEW-P | 93-21-062 | 246-290-450 | REP | 93-08-011 |
| 246-247-001 | AMD-P | 94-01-142 | 246-272-160 | REP-P | 93-21-062 | 246-290-470 | AMD-P | 93-04-122 |
| 246-247-002 | NEW-P | 94-01-142 | 246-272-16501 | NEW-P | 93-21-062 | 246-290-470 | AMD | 93-08-011 |
| 246-247-010 | AMD-P | 94-01-142 | 246-272-170 | REP-P | 93-21-062 | 246-290-480 | AMD-P | 93-04-122 |
| 246-247-020 | AMD-P | 94-01-142 | 246-272-17501 | NEW-P | 93-21-062 | 246-290-480 | AMD | 93-08-011 |
| 246-247-030 | AMD-P | 94-01-142 | 246-272-180 | REP-P | 93-21-062 | 246-290-601 | NEW-P | 93-04-122 |
| 246-247-040 | AMD-P | 94-01-142 | 246-272-18501 | NEW-P | 93-21-062 | 246-290-601 | NEW | 93-08-011 |
| 246-247-050 | REP-P | 94-01-142 | 246-272-190 | REP-P | 93-21-062 | 246-290-610 | NEW-P | 93-04-122 |
| 246-247-060 | AMD-P | 94-01-142 | 246-272-19501 | NEW-P | 93-21-062 | 246-290-610 | NEW | 93-08-011 |
| 246-247-065 | NEW-P | 94-01-142 | 246-272-200 | REP-P | 93-21-062 | 246-290-620 | NEW-P | 93-04-122 |
| 246-247-070 | REP-P | 94-01-142 | 246-272-20501 | NEW-P | 93-21-062 | 246-290-620 | NEW | 93-08-011 |
| 246-247-075 | NEW-P | 94-01-142 | 246-272-210 | REP-P | 93-21-062 | 246-290-630 | NEW-P | 93-04-122 |
| 246-247-080 | AMD-P | 94-01-142 | 246-272-21501 | NEW-P | 93-21-062 | 246-290-630 | NEW | 93-08-011 |
| 246-247-085 | NEW-P | 94-01-142 | 246-272-220 | REP-P | 93-21-062 | 246-290-632 | NEW-P | 93-04-122 |
| 246-247-090 | REP-P | 94-01-142 | 246-272-22501 | NEW-P | 93-21-062 | 246-290-632 | NEW | 93-08-011 |
| 246-247-100 | AMD-P | 94-01-142 | 246-272-230 | REP-P | 93-21-062 | 246-290-634 | NEW-P | 93-04-122 |
| 246-247-110 | NEW-P | 94-01-142 | 246-272-23501 | NEW-P | 93-21-062 | 246-290-634 | NEW | 93-08-011 |
| 246-247-120 | NEW-P | 94-01-142 | 246-272-240 | REP-P | 93-21-062 | 246-290-636 | NEW-P | 93-04-122 |
| 246-247-130 | NEW-P | 94-01-142 | 246-272-24001 | NEW-P | 93-21-062 | 246-290-636 | NEW | 93-08-011 |
| 246-250-001 | AMD-P | 93-19-048 | 246-272-25001 | NEW-P | 93-21-062 | 246-290-638 | NEW-P | 93-04-122 |
| 246-250-001 | AMD | 94-01-073 | 246-272-26001 | NEW-P | 93-21-062 | 246-290-638 | NEW | 93-08-011 |
| 246-252-030 | AMD-P | 93-19-048 | 246-272-27001 | NEW-P | 93-21-062 | 246-290-639 | NEW-P | 93-04-122 |
| 246-252-030 | AMD | 94-01-073 | 246-272-28001 | NEW-P | 93-21-062 | 246-290-639 | NEW | 93-08-011 |
| 246-254-053 | AMD-P | 93-08-069 | 246-282-005 | NEW-W | 93-11-075 | 246-290-640 | NEW-P | 93-04-122 |
| 246-254-053 | AMD | 93-13-019 | 246-282-990 | AMD-P | 93-13-125 | 246-290-640 | NEW | 93-08-011 |
| 246-254-070 | AMD-P | 93-08-069 | 246-282-990 | AMD | 93-17-096 | 246-290-650 | NEW-P | 93-04-122 |
| 246-254-070 | AMD | 93-13-019 | 246-290-001 | AMD-P | 93-04-122 | 246-290-650 | NEW | 93-08-011 |
| 246-254-080 | AMD-P | 93-08-069 | 246-290-001 | AMD | 93-08-011 | 246-290-652 | NEW-P | 93-04-122 |
| 246-254-080 | AMD | 93-13-019 | 246-290-010 | AMD-P | 93-04-122 | 246-290-652 | NEW | 93-08-011 |
| 246-254-090 | AMD-P | 93-08-069 | 246-290-010 | AMD | 93-08-011 | 246-290-654 | NEW-P | 93-04-122 |
| 246-254-090 | AMD | 93-13-019 | 246-290-020 | AMD-P | 93-04-122 | 246-290-654 | NEW | 93-08-011 |
| 246-254-100 | AMD-P | 93-08-069 | 246-290-020 | AMD | 93-08-011 | 246-290-660 | NEW-P | 93-04-122 |
| 246-254-100 | AMD | 93-13-019 | 246-290-030 | AMD-P | 93-04-122 | 246-290-660 | NEW | 93-08-011 |
| 246-254-120 | AMD-P | 93-08-069 | 246-290-030 | AMD | 93-08-011 | 246-290-662 | NEW-P | 93-04-122 |
| 246-254-120 | AMD | 93-13-019 | 246-290-040 | AMD-P | 93-04-122 | 246-290-662 | NEW | 93-08-011 |
| 246-254-160 | AMD-P | 94-01-142 | 246-290-040 | AMD | 93-08-011 | 246-290-664 | NEW-P | 93-04-122 |
| 246-260-005 | NEW-W | 93-11-075 | 246-290-050 | AMD-P | 93-04-122 | 246-290-664 | NEW | 93-08-011 |
| 246-262-005 | NEW-W | 93-11-075 | 246-290-050 | AMD | 93-08-011 | 246-290-666 | NEW-P | 93-04-122 |
| 246-264-005 | NEW-W | 93-11-075 | 246-290-060 | AMD-P | 93-04-122 | 246-290-666 | NEW | 93-08-011 |
| 246-272-001 | REP-P | 93-21-062 | 246-290-060 | AMD | 93-08-011 | 246-290-668 | NEW-P | 93-04-122 |
| 246-272-00101 | NEW-P | 93-21-062 | 246-290-100 | AMD-P | 93-04-122 | 246-290-668 | NEW | 93-08-011 |
| 246-272-002 | REP-P | 93-21-062 | 246-290-100 | AMD | 93-08-011 | 246-290-670 | NEW-P | 93-04-122 |
| 246-272-005 | REP-P | 93-21-062 | 246-290-110 | AMD-P | 93-04-122 | 246-290-670 | NEW | 93-08-011 |
| 246-272-00501 | NEW-P | 93-21-062 | 246-290-110 | AMD | 93-08-011 | 246-290-672 | NEW-P | 93-04-122 |

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| 246-290-674 | NEW-P | 93-04-122 | 246-316-260 | AMD-P | 93-19-060 | 246-331-990 | AMD | 93-21-034 |
| 246-290-674 | NEW | 93-08-011 | 246-316-260 | AMD-E | 93-19-062 | 246-336-100 | NEW-W | 93-04-091 |
| 246-290-676 | NEW-P | 93-04-122 | 246-316-260 | AMD | 94-01-058 | 246-336-100 | NEW-P | 93-08-078 |
| 246-290-676 | NEW | 93-08-011 | 246-318-010 | AMD | 93-07-011 | 246-336-100 | NEW | 93-16-030 |
| 246-290-678 | NEW-P | 93-04-122 | 246-318-040 | AMD-W | 93-04-091 | 246-336-990 | AMD-E | 93-14-093 |
| 246-290-678 | NEW | 93-08-011 | 246-318-040 | AMD-P | 93-08-078 | 246-336-990 | AMD-P | 93-17-045 |
| 246-290-680 | NEW-P | 93-04-122 | 246-318-040 | AMD | 93-16-030 | 246-336-990 | AMD | 93-21-034 |
| 246-290-680 | NEW | 93-08-011 | 246-318-042 | NEW-W | 93-04-091 | 246-338-010 | AMD-P | 93-14-036 |
| 246-290-686 | NEW-P | 93-04-122 | 246-318-042 | NEW-P | 93-08-078 | 246-338-010 | AMD | 93-18-091 |
| 246-290-686 | NEW | 93-08-011 | 246-318-042 | NEW | 93-16-030 | 246-338-020 | AMD-P | 93-14-036 |
| 246-290-690 | NEW-P | 93-04-122 | 246-318-500 | AMD | 93-07-011 | 246-338-020 | AMD | 93-18-091 |
| 246-290-690 | NEW | 93-08-011 | 246-318-510 | AMD | 93-07-011 | 246-338-030 | AMD-P | 93-14-036 |
| 246-290-692 | NEW-P | 93-04-122 | 246-318-520 | AMD | 93-07-011 | 246-338-030 | AMD | 93-18-091 |
| 246-290-692 | NEW | 93-08-011 | 246-318-530 | AMD | 93-07-011 | 246-338-040 | AMD-P | 93-14-036 |
| 246-290-694 | NEW-P | 93-04-122 | 246-318-540 | AMD | 93-07-011 | 246-338-040 | AMD | 93-18-091 |
| 246-290-694 | NEW | 93-08-011 | 246-318-550 | AMD | 93-07-011 | 246-338-050 | AMD-P | 93-14-036 |
| 246-290-696 | NEW-P | 93-04-122 | 246-318-560 | AMD | 93-07-011 | 246-338-050 | AMD | 93-18-091 |
| 246-290-696 | NEW | 93-08-011 | 246-318-570 | AMD | 93-07-011 | 246-338-060 | AMD-P | 93-14-036 |
| 246-292-001 | AMD-P | 93-23-081 | 246-318-580 | AMD | 93-07-011 | 246-338-060 | AMD | 93-18-091 |
| 246-292-010 | AMD-P | 93-23-081 | 246-318-590 | AMD | 93-07-011 | 246-338-070 | AMD-P | 93-14-036 |
| 246-292-020 | AMD-P | 93-23-081 | 246-318-600 | AMD | 93-07-011 | 246-338-070 | AMD | 93-18-091 |
| 246-292-030 | AMD-P | 93-23-081 | 246-318-610 | AMD | 93-07-011 | 246-338-080 | AMD-P | 93-14-036 |
| 246-292-040 | AMD-P | 93-23-081 | 246-318-620 | AMD | 93-07-011 | 246-338-080 | AMD | 93-18-091 |
| 246-292-050 | AMD-P | 93-23-081 | 246-318-630 | AMD | 93-07-011 | 246-338-090 | AMD-P | 93-14-036 |
| 246-292-055 | NEW-P | 93-23-081 | 246-318-640 | AMD | 93-07-011 | 246-338-090 | AMD | 93-18-091 |
| 246-292-060 | AMD-P | 93-23-081 | 246-318-650 | AMD | 93-07-011 | 246-338-100 | AMD-P | 93-14-036 |
| 246-292-070 | AMD-P | 93-23-081 | 246-318-660 | AMD | 93-07-011 | 246-338-100 | AMD | 93-18-091 |
| 246-292-075 | NEW-P | 93-23-081 | 246-318-670 | AMD | 93-07-011 | 246-338-110 | AMD-P | 93-14-036 |
| 246-292-080 | AMD-P | 93-23-081 | 246-318-680 | AMD | 93-07-011 | 246-338-110 | AMD | 93-18-091 |
| 246-292-090 | AMD-P | 93-23-081 | 246-318-690 | AMD | 93-07-011 | 246-338-990 | AMD-P | 93-14-036 |
| 246-292-100 | AMD-P | 93-23-081 | 246-318-700 | AMD | 93-07-011 | 246-338-990 | AMD | 93-18-091 |
| 246-292-110 | AMD-P | 93-23-081 | 246-318-710 | AMD | 93-07-011 | 246-340-001 | REP-E | 93-14-034 |
| 246-292-120 | REP-P | 93-23-081 | 246-318-720 | AMD | 93-07-011 | 246-340-001 | REP-P | 93-14-035 |
| 246-292-130 | REP-P | 93-23-081 | 246-318-730 | AMD | 93-07-011 | 246-340-001 | REP | 93-19-109 |
| 246-292-140 | REP-P | 93-23-081 | 246-318-740 | AMD | 93-07-011 | 246-340-010 | REP-E | 93-14-034 |
| 246-292-150 | REP-P | 93-23-081 | 246-318-750 | AMD | 93-07-011 | 246-340-010 | REP-P | 93-14-035 |
| 246-292-160 | NEW-P | 93-23-081 | 246-318-760 | AMD | 93-07-011 | 246-340-010 | REP | 93-19-109 |
| 246-292-170 | NEW-P | 93-23-081 | 246-318-770 | AMD | 93-07-011 | 246-340-020 | REP-E | 93-14-034 |
| 246-292-990 | REP-P | 93-23-081 | 246-318-780 | AMD | 93-07-011 | 246-340-020 | REP-P | 93-14-035 |
| 246-293-440 | REP-P | 93-08-071 | 246-318-790 | AMD | 93-07-011 | 246-340-020 | REP | 93-19-109 |
| 246-293-440 | REP | 93-13-005 | 246-318-799 | REP | 93-07-011 | 246-340-030 | REP-E | 93-14-034 |
| 246-294-001 | NEW | 93-03-047 | 246-318-800 | AMD | 93-07-011 | 246-340-030 | REP-P | 93-14-035 |
| 246-294-010 | NEW | 93-03-047 | 246-318-810 | AMD | 93-07-011 | 246-340-030 | REP | 93-19-109 |
| 246-294-020 | NEW | 93-03-047 | 246-318-820 | AMD | 93-07-011 | 246-340-040 | REP-E | 93-14-034 |
| 246-294-030 | NEW | 93-03-047 | 246-318-830 | AMD | 93-07-011 | 246-340-040 | REP-P | 93-14-035 |
| 246-294-040 | NEW | 93-03-047 | 246-318-840 | AMD | 93-07-011 | 246-340-040 | REP | 93-19-109 |
| 246-294-050 | NEW | 93-03-047 | 246-318-850 | AMD | 93-07-011 | 246-340-050 | REP-E | 93-14-034 |
| 246-294-060 | NEW | 93-03-047 | 246-318-860 | AMD | 93-07-011 | 246-340-050 | REP-P | 93-14-035 |
| 246-294-070 | NEW | 93-03-047 | 246-318-870 | AMD | 93-07-011 | 246-340-050 | REP | 93-19-109 |
| 246-294-080 | NEW | 93-03-047 | 246-318-99902 | AMD | 93-07-011 | 246-340-060 | REP-E | 93-14-034 |
| 246-294-090 | NEW | 93-03-047 | 246-321-018 | NEW-W | 93-04-091 | 246-340-060 | REP-P | 93-14-035 |
| 246-294-100 | NEW | 93-03-047 | 246-321-018 | NEW-P | 93-08-078 | 246-340-060 | REP | 93-19-109 |
| 246-310-280 | AMD-P | 93-08-070 | 246-321-018 | NEW | 93-16-030 | 246-340-070 | REP-E | 93-14-034 |
| 246-310-280 | AMD | 93-13-015 | 246-323-022 | NEW-W | 93-04-091 | 246-340-070 | REP-P | 93-14-035 |
| 246-310-381 | NEW-E | 93-13-044 | 246-323-022 | NEW-P | 93-08-078 | 246-340-070 | REP | 93-19-109 |
| 246-310-381 | NEW-E | 93-21-033 | 246-323-022 | NEW | 93-16-030 | 246-340-080 | REP-E | 93-14-034 |
| 246-316-020 | AMD-W | 93-04-091 | 246-325-022 | NEW-W | 93-04-091 | 246-340-080 | REP-P | 93-14-035 |
| 246-316-020 | AMD-P | 93-08-078 | 246-325-022 | NEW-P | 93-08-078 | 246-340-080 | REP | 93-19-109 |
| 246-316-020 | AMD | 93-16-030 | 246-325-022 | NEW | 93-16-030 | 246-340-085 | NEW-W | 93-04-091 |
| 246-316-040 | AMD-W | 93-04-091 | 246-327-090 | NEW-W | 93-04-091 | 246-340-085 | NEW-P | 93-08-078 |
| 246-316-040 | AMD-P | 93-08-078 | 246-327-090 | NEW-P | 93-08-078 | 246-340-085 | NEW | 93-16-030 |
| 246-316-040 | AMD | 93-16-030 | 246-327-090 | NEW | 93-16-030 | 246-340-090 | REP-E | 93-14-034 |
| 246-316-045 | NEW-W | 93-04-091 | 246-327-990 | AMD-E | 93-14-093 | 246-340-090 | REP-P | 93-14-035 |
| 246-316-045 | NEW-P | 93-08-078 | 246-327-990 | AMD-P | 93-17-045 | 246-340-090 | REP | 93-19-109 |
| 246-316-045 | NEW | 93-16-030 | 246-327-990 | AMD | 93-21-034 | 246-340-100 | REP-E | 93-14-034 |
| 246-316-050 | AMD-W | 93-04-091 | 246-329-035 | NEW-W | 93-04-091 | 246-340-100 | REP-P | 93-14-035 |
| 246-316-050 | AMD-P | 93-08-078 | 246-329-035 | NEW-P | 93-08-078 | 246-340-100 | REP | 93-19-109 |
| 246-316-050 | AMD | 93-16-030 | 246-329-035 | NEW | 93-16-030 | 246-340-110 | REP-E | 93-14-034 |
| 246-316-240 | AMD-E | 93-12-004 | 246-331-100 | NEW-W | 93-04-091 | 246-340-110 | REP-P | 93-14-035 |
| 246-316-240 | AMD-P | 93-19-060 | 246-331-100 | NEW-P | 93-08-078 | 246-340-110 | REP | 93-19-109 |
| 246-316-240 | AMD-E | 93-19-062 | 246-331-100 | NEW | 93-16-030 | 246-340-990 | REP-E | 93-14-034 |
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| 246-358-001 | AMD | 93-03-032 | 246-806-150 | REP-P | 93-06-090 | 246-824-073 | NEW | 93-14-011 |
| 246-358-001 | AMD-E | 93-07-052 | 246-806-150 | REP | 93-09-055 | 246-824-200 | NEW-P | 93-02-066 |
| 246-358-001 | AMD-P | 93-07-106 | 246-806-160 | AMD-P | 93-06-090 | 246-824-200 | NEW-W | 93-16-023 |
| 246-358-001 | AMD | 93-12-043 | 246-806-160 | AMD | 93-09-055 | 246-824-210 | NEW-P | 93-02-066 |
| 246-358-010 | AMD | 93-03-032 | 246-806-190 | AMD-P | 93-06-090 | 246-824-210 | NEW-W | 93-16-023 |
| 246-358-020 | NEW | 93-03-032 | 246-806-190 | AMD | 93-09-055 | 246-824-220 | NEW-P | 93-02-066 |
| 246-358-025 | AMD | 93-03-031 | 246-807-210 | AMD-P | 93-14-094 | 246-824-220 | NEW-W | 93-16-023 |
| 246-358-030 | NEW | 93-03-031 | 246-807-210 | AMD-C | 93-17-094 | 246-824-230 | NEW-P | 93-02-066 |
| 246-358-035 | REP | 93-03-032 | 246-807-280 | AMD-P | 93-14-094 | 246-824-230 | NEW-W | 93-16-023 |
| 246-358-045 | AMD | 93-03-032 | 246-807-280 | AMD-C | 93-17-094 | 246-824-240 | NEW-P | 93-02-066 |
| 246-358-055 | AMD | 93-03-032 | 246-807-280 | AMD | 93-24-107 | 246-824-240 | NEW-W | 93-16-023 |
| 246-358-065 | AMD | 93-03-032 | 246-807-290 | AMD-P | 93-14-094 | 246-824-990 | AMD-P | 93-10-071 |
| 246-358-075 | AMD | 93-03-032 | 246-807-290 | AMD-C | 93-17-094 | 246-824-990 | AMD | 93-14-011 |
| 246-358-085 | AMD | 93-03-032 | 246-807-290 | AMD | 93-24-107 | 246-828-005 | NEW | 93-07-009 |
| 246-358-095 | AMD | 93-03-032 | 246-807-311 | NEW-P | 93-14-094 | 246-828-340 | AMD | 93-07-010 |
| 246-358-105 | AMD | 93-03-032 | 246-807-311 | NEW-C | 93-17-094 | 246-828-400 | NEW | 93-07-008 |
| 246-358-115 | AMD | 93-03-032 | 246-807-311 | NEW | 93-24-107 | 246-828-410 | NEW | 93-07-008 |
| 246-358-125 | AMD | 93-03-032 | 246-807-320 | AMD-P | 93-14-094 | 246-828-420 | NEW | 93-07-008 |
| 246-358-135 | AMD | 93-03-032 | 246-807-320 | AMD-C | 93-17-094 | 246-828-430 | NEW | 93-07-008 |
| 246-358-140 | NEW | 93-03-032 | 246-807-320 | AMD | 93-24-107 | 246-838-500 | NEW | 93-07-007 |
| 246-358-145 | AMD | 93-03-032 | 246-807-395 | NEW-E | 93-10-006 | 246-828-510 | NEW | 93-07-007 |
| 246-358-155 | AMD | 93-03-032 | 246-807-395 | NEW-P | 93-14-094 | 246-828-520 | NEW | 93-07-007 |
| 246-358-165 | AMD | 93-03-032 | 246-807-395 | NEW-C | 93-17-094 | 246-828-530 | NEW | 93-07-007 |
| 246-358-175 | AMD | 93-03-032 | 246-807-395 | NEW-E | 93-18-016 | 246-828-540 | NEW | 93-07-007 |
| 246-358-990 | AMD | 93-03-031 | 246-807-395 | NEW | 93-24-107 | 246-828-550 | NEW | 93-07-007 |
| 246-360-005 | NEW-W | 93-11-075 | 246-807-396 | NEW-E | 93-10-006 | 246-828-560 | NEW | 93-07-007 |
| 246-374-005 | NEW-W | 93-11-075 | 246-807-396 | NEW-P | 93-14-094 | 246-828-570 | NEW-P | 93-13-145 |
| 246-376-005 | NEW-W | 93-11-075 | 246-807-396 | NEW-C | 93-17-094 | 246-828-570 | NEW | 93-17-044 |
| 246-378-005 | NEW-W | 93-11-075 | 246-807-396 | NEW-E | 93-18-016 | 246-828-990 | AMD-P | 93-10-071 |
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| 246-388-070 | AMD | 93-16-030 | 246-807-500 | NEW-C | 93-17-094 | 246-828-990 | AMD-P | 93-20-060 |
| 246-388-072 | NEW-W | 93-04-091 | 246-807-500 | NEW | 93-24-107 | 246-830-460 | NEW-P | 93-14-133 |
| 246-388-072 | NEW-P | 93-08-078 | 246-807-510 | NEW-P | 93-14-094 | 246-830-460 | NEW-W | 94-01-055 |
| 246-388-072 | NEW | 93-16-030 | 246-807-510 | NEW-C | 93-17-094 | 246-830-465 | NEW-P | 93-14-133 |
| 246-420-005 | NEW-W | 93-11-075 | 246-807-510 | NEW | 93-24-107 | 246-830-465 | NEW-W | 94-01-055 |
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| 246-520-005 | NEW-W | 93-11-075 | 246-810-020 | AMD-P | 93-10-071 | 246-830-485 | NEW-P | 93-14-133 |
| 246-520-010 | REP-P | 93-16-099 | 246-810-020 | AMD | 93-14-011 | 246-830-485 | NEW-W | 94-01-055 |
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| 246-520-070 | REP-P | 93-16-099 | 246-815-990 | AMD-P | 93-12-121 | 246-836-990 | AMD | 93-14-011 |
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| 246-650-005 | NEW-W | 93-11-075 | 246-815-990 | AMD-P | 93-23-004 | 246-838-050 | AMD | 93-21-006 |
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| 246-760-005 | NEW-W | 93-11-075 | 246-816-220 | AMD-W | 93-13-014 | 246-838-090 | AMD | 93-21-006 |
| 246-762-005 | NEW-W | 93-11-075 | 246-816-225 | NEW-P | 93-08-106 | 246-838-110 | AMD-P | 93-16-101 |
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| 246-806-090 | AMD-P | 93-06-090 | 246-816-225 | NEW | 93-19-111 | 246-838-120 | AMD-P | 93-16-101 |
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| 246-806-090 | AMD-W | 93-20-062 | 246-818-120 | AMD | 93-07-108 | 246-838-121 | NEW | 93-21-006 |
| 246-806-091 | NEW-P | 93-16-100 | 246-818-130 | AMD-S | 93-07-107 | 246-838-130 | AMD-P | 93-16-101 |
| 246-806-091 | AMD-W | 93-20-062 | 246-818-130 | AMD | 93-12-005 | 246-838-130 | AMD | 93-21-006 |
| 246-806-092 | NEW-P | 93-16-100 | 246-818-140 | AMD | 93-07-108 | 246-838-270 | AMD-P | 93-16-101 |
| 246-806-092 | AMD-W | 93-20-062 | 246-818-990 | REP-P | 93-22-109 | 246-838-270 | AMD | 93-21-006 |
| 246-806-100 | AMD-P | 93-06-090 | 246-818-991 | NEW-P | 93-22-109 | 246-838-320 | REP-P | 93-16-101 |
| 246-806-100 | AMD | 93-09-055 | 246-824-040 | AMD-P | 93-10-040 | 246-838-320 | REP | 93-21-006 |
| 246-806-110 | AMD-P | 93-06-090 | 246-824-040 | AMD | 93-14-011 | 246-838-330 | NEW | 93-04-080 |
| 246-806-110 | AMD | 93-09-055 | 246-824-071 | NEW-P | 93-10-040 | 246-838-340 | NEW-P | 93-16-101 |
| 246-806-130 | AMD-P | 93-06-090 | 246-824-071 | NEW | 93-14-011 | 246-838-340 | NEW | 93-21-006 |
| 246-806-130 | AMD | 93-09-055 | 246-824-072 | NEW-P | 93-10-040 | 246-838-350 | NEW-P | 93-16-101 |
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| 246-838-360 | NEW | 93-21-006 | 246-847-070 | AMD | 93-18-093 | 246-854-115 | NEW | 93-24-028 |
| 246-838-990 | AMD | 93-07-023 | 246-847-080 | AMD-P | 93-12-089 | 246-857-020 | REP | 93-04-017 |
| 246-839-020 | AMD-P | 94-01-132 | 246-847-080 | AMD | 93-18-093 | 246-857-030 | REP | 93-04-017 |
| 246-839-030 | AMD-P | 94-01-132 | 246-847-115 | AMD-P | 93-12-089 | 246-857-040 | REP | 93-04-017 |
| 246-839-040 | AMD-P | 94-01-132 | 246-847-115 | AMD | 93-18-093 | 246-857-050 | REP | 93-04-017 |
| 246-839-050 | AMD-P | 94-01-132 | 246-847-125 | NEW-P | 93-12-089 | 246-857-060 | REP | 93-04-017 |
| 246-839-060 | AMD-P | 94-01-132 | 246-847-125 | NEW | 93-18-093 | 246-857-070 | REP | 93-04-017 |
| 246-839-070 | AMD-P | 94-01-132 | 246-847-130 | AMD-P | 93-12-089 | 246-857-080 | REP | 93-04-017 |
| 246-839-080 | AMD-P | 94-01-132 | 246-847-130 | AMD | 93-18-093 | 246-857-090 | REP | 93-04-017 |
| 246-839-090 | AMD-P | 94-01-132 | 246-847-200 | AMD-P | 93-12-089 | 246-857-100 | REP | 93-04-017 |
| 246-839-115 | NEW-P | 93-06-091 | 246-847-200 | AMD | 93-18-093 | 246-857-110 | REP | 93-04-017 |
| 246-839-115 | NEW | 93-11-007 | 246-849-200 | NEW-P | 93-03-046 | 246-857-120 | REP | 93-04-017 |
| 246-839-350 | AMD-P | 93-16-098 | 246-849-200 | NEW | 93-10-008 | 246-857-130 | REP | 93-04-017 |
| 246-839-350 | AMD | 93-22-052 | 246-849-210 | NEW-P | 93-03-046 | 246-857-140 | REP | 93-04-017 |
| 246-839-360 | AMD-P | 93-16-098 | 246-849-210 | NEW | 93-10-008 | 246-857-150 | REP | 93-04-017 |
| 246-839-360 | AMD | 93-22-052 | 246-849-220 | NEW-P | 93-03-046 | 246-857-160 | REP | 93-04-017 |
| 246-839-400 | AMD-P | 93-16-098 | 246-849-220 | NEW | 93-10-008 | 246-857-170 | REP | 93-04-017 |
| 246-839-400 | AMD | 93-22-052 | 246-849-230 | NEW-P | 93-03-046 | 246-857-180 | REP | 93-04-017 |
| 246-839-410 | AMD-P | 93-16-098 | 246-849-230 | NEW | 93-10-008 | 246-857-190 | REP | 93-04-017 |
| 246-839-410 | AMD | 93-22-052 | 246-849-240 | NEW-P | 93-03-046 | 246-857-200 | REP | 93-04-017 |
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| 246-839-420 | AMD | 93-22-052 | 246-849-250 | NEW-P | 93-03-046 | 246-857-220 | REP | 93-04-017 |
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| 246-839-745 | NEW | 93-20-113 | 246-849-260 | NEW-P | 93-03-046 | 246-857-240 | REP | 93-04-017 |
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| 246-839-990 | AMD | 93-12-125 | 246-849-270 | NEW-P | 93-03-046 | 246-857-260 | REP | 93-04-017 |
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| 246-843-010 | AMD-P | 93-08-105 | 246-849-990 | AMD | 93-14-011 | 246-857-290 | REP | 93-04-017 |
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| 246-843-080 | AMD-P | 93-19-149 | 246-851-110 | AMD | 93-18-092 | 246-857-310 | REP | 93-04-017 |
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| 246-845-070 | NEW | 93-14-011 | 246-854-030 | AMD | 93-24-028 | 246-901-065 | NEW-P | 93-08-107 |
| 246-845-080 | NEW-P | 93-10-039 | 246-854-040 | AMD-P | 93-17-095 | 246-901-065 | NEW | 93-17-097 |
| 246-845-080 | NEW | 93-14-011 | 246-854-040 | AMD | 93-24-028 | 246-903-010 | AMD | 93-04-016 |
| 246-845-090 | NEW-P | 93-10-039 | 246-854-050 | AMD-P | 93-17-095 | 246-903-020 | AMD | 93-04-016 |
| 246-845-090 | NEW | 93-14-011 | 246-854-050 | AMD | 93-24-028 | 246-907-030 | AMD | 93-05-045 |
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| 246-845-100 | NEW | 93-14-011 | 246-854-060 | AMD | 93-24-028 | 246-907-030 | AMD | 93-18-015 |
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| 246-915-140 | AMD-P | 93-20-058 | 246-924-352 | NEW | 93-07-036 | 246-935-990 | AMD | 93-14-011 |
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| 246-915-160 | AMD-P | 93-20-058 | 246-924-353 | NEW | 93-07-036 | 246-976-470 | AMD | 93-20-063 |
| 246-915-340 | NEW-P | 93-20-058 | 246-924-354 | NEW-P | 93-02-067 | 246-976-510 | AMD-P | 93-13-124 |
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| 246-917-100 | AMD | 93-21-017 | 246-924-355 | NEW-P | 93-02-067 | 246-976-520 | AMD-P | 93-13-124 |
| 246-917-110 | AMD-P | 93-17-043 | 246-924-355 | NEW | 93-07-036 | 246-976-520 | AMD | 93-20-063 |
| 246-917-110 | AMD | 93-21-017 | 246-924-356 | NEW-P | 93-02-067 | 246-976-560 | AMD-P | 93-13-124 |
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| 246-917-120 | AMD | 93-21-017 | 246-924-357 | NEW-P | 93-02-067 | 246-976-600 | AMD-P | 93-13-124 |
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| 246-917-220 | NEW-P | 93-17-043 | 246-924-358 | NEW | 93-07-036 | 246-976-610 | AMD | 93-20-063 |
| 246-917-220 | NEW | 93-21-017 | 246-924-359 | NEW-P | 93-02-067 | 246-976-650 | AMD-P | 93-13-124 |
| 246-917-990 | AMD-W | 93-11-073 | 246-924-359 | NEW | 93-07-036 | 246-976-650 | AMD | 93-20-063 |
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| 246-918-005 | AMD | 93-21-016 | 246-924-363 | NEW-P | 93-02-067 | 246-976-730 | AMD-P | 93-13-124 |
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| 246-922-235 | NEW | 93-18-036 | 246-924-430 | REP-P | 93-02-067 | 248-14-001 | AMD-P | 93-18-022 |
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| 248-172-203 | REP-E | 93-21-080 | 250-61-020 | REP-P | 93-12-106 | 250-62-200 | NEW-S | 93-18-027 |
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| 248-172-204 | REP-E | 93-21-080 | 250-61-030 | REP-P | 93-12-106 | 250-62-210 | NEW-S | 93-18-027 |
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| 248-172-206 | REP-E | 93-21-080 | 250-61-050 | REP-P | 93-12-106 | 250-65-040 | AMD-P | 93-11-089 |
| 248-172-301 | REP-P | 93-21-079 | 250-61-050 | REP-S | 93-18-027 | 250-65-040 | AMD | 93-19-022 |
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| 248-172-302 | REP-P | 93-21-079 | 250-61-060 | REP-S | 93-18-027 | 250-65-050 | AMD | 93-19-022 |
| 248-172-302 | REP-E | 93-21-080 | 250-61-070 | REP-P | 93-12-106 | 250-65-060 | AMD-P | 93-11-089 |
| 248-172-303 | REP-P | 93-21-079 | 250-61-070 | REP-S | 93-18-027 | 250-65-060 | AMD | 93-19-022 |
| 248-172-303 | REP-E | 93-21-080 | 250-61-080 | REP-P | 93-12-106 | 250-66-020 | AMD-P | 93-11-094 |
| 248-172-304 | REP-P | 93-21-079 | 250-61-080 | REP-S | 93-18-027 | 250-66-020 | AMD-C | 93-14-103 |
| 248-172-304 | REP-E | 93-21-080 | 250-61-090 | REP-P | 93-12-106 | 250-66-020 | AMD | 93-19-014 |
| 248-172-401 | REP-P | 93-21-079 | 250-61-090 | REP-S | 93-18-027 | 250-70-030 | AMD-P | 93-11-090 |
| 248-172-401 | REP-E | 93-21-080 | 250-61-100 | REP-P | 93-12-106 | 250-70-030 | AMD-C | 93-14-100 |
| 248-172-402 | REP-P | 93-21-079 | 250-61-100 | REP-S | 93-18-027 | 250-70-030 | AMD | 93-19-024 |
| 248-172-402 | REP-E | 93-21-080 | 250-61-110 | REP-P | 93-12-106 | 250-76-020 | AMD-P | 93-11-091 |
| 250-18-010 | AMD-P | 93-16-076 | 250-61-110 | REP-S | 93-18-027 | 250-76-020 | AMD-C | 93-14-101 |
| 250-18-010 | AMD | 93-20-004 | 250-61-120 | REP-P | 93-12-106 | 250-76-020 | AMD | 93-19-025 |
| 250-18-020 | AMD-P | 93-16-076 | 250-61-120 | REP-S | 93-18-027 | 250-76-070 | AMD-P | 93-11-091 |
| 250-18-020 | AMD | 93-20-004 | 250-61-130 | REP-P | 93-12-106 | 250-76-070 | AMD-C | 93-14-101 |
| 250-18-050 | AMD-P | 93-16-076 | 250-61-130 | REP-S | 93-18-027 | 250-76-070 | AMD | 93-19-025 |
| 250-18-050 | AMD | 93-20-004 | 250-61-140 | REP-P | 93-12-106 | 250-78-050 | AMD-P | 93-11-092 |
| 250-18-060 | AMD-P | 93-16-076 | 250-61-140 | REP-S | 93-18-027 | 250-78-050 | AMD-C | 93-14-102 |
| 250-18-060 | AMD | 93-20-004 | 250-61-150 | REP-P | 93-12-106 | 250-78-050 | AMD | 93-19-015 |
| 250-20-011 | AMD-P | 93-03-087 | 250-61-150 | REP-S | 93-18-027 | 250-78-060 | AMD-P | 93-11-092 |
| 250-20-011 | AMD-E | 93-04-070 | 250-61-160 | REP-P | 93-12-106 | 250-78-060 | AMD-C | 93-14-102 |
| 250-20-011 | AMD | 93-08-010 | 250-61-160 | REP-S | 93-18-027 | 250-78-060 | AMD | 93-19-015 |
| 250-20-015 | AMD-P | 93-03-087 | 250-61-170 | REP-P | 93-12-106 | 250-79-010 | NEW-P | 94-01-112 |
| 250-20-015 | AMD-E | 93-04-070 | 250-61-170 | REP-S | 93-18-027 | 251-04-030 | AMD-E | 93-14-092 |
| 250-20-015 | AMD | 93-08-010 | 250-61-180 | REP-P | 93-12-106 | 251-04-030 | AMD-P | 93-16-020 |
| 250-20-021 | AMD-P | 93-03-087 | 250-61-180 | REP-S | 93-18-027 | 251-04-030 | AMD | 93-19-147 |
| 250-20-021 | AMD-E | 93-04-070 | 250-62-010 | NEW-P | 93-12-106 | 251-04-040 | AMD-E | 93-14-092 |
| 250-20-021 | AMD | 93-08-010 | 250-62-010 | NEW-S | 93-18-027 | 251-04-040 | AMD-P | 93-16-020 |
| 250-20-031 | AMD-P | 93-03-087 | 250-62-020 | NEW-P | 93-12-106 | 251-04-040 | AMD | 93-19-147 |
| 250-20-031 | AMD-E | 93-04-070 | 250-62-020 | NEW-S | 93-18-027 | 251-04-040 | AMD-P | 93-22-105 |
| 250-20-031 | AMD | 93-08-010 | 250-62-030 | NEW-P | 93-12-106 | 251-04-050 | AMD-E | 93-14-092 |
| 250-20-041 | AMD-P | 93-03-087 | 250-62-030 | NEW-S | 93-18-027 | 251-04-050 | AMD-P | 93-16-020 |
| 250-20-041 | AMD-E | 93-04-070 | 250-62-040 | NEW-P | 93-12-106 | 251-04-050 | AMD | 93-19-147 |
| 250-20-041 | AMD | 93-08-010 | 250-62-040 | NEW-S | 93-18-027 | 251-05-010 | REP-P | 93-22-038 |
| 250-20-051 | AMD-P | 93-03-087 | 250-62-050 | NEW-P | 93-12-106 | 251-05-030 | REP-P | 93-22-038 |
| 250-20-051 | AMD-E | 93-04-070 | 250-62-050 | NEW-S | 93-18-027 | 251-05-040 | REP-P | 93-22-038 |
| 250-20-051 | AMD | 93-08-010 | 250-62-060 | NEW-P | 93-12-106 | 251-05-050 | REP-P | 93-22-038 |
| 250-25 | AMD-C | 93-14-098 | 250-62-060 | NEW-S | 93-18-027 | 251-05-060 | REP-P | 93-22-038 |
| 250-25-060 | AMD-P | 93-11-088 | 250-62-070 | NEW-P | 93-12-106 | 251-05-070 | REP-P | 93-22-038 |
| 250-25-060 | AMD | 93-19-023 | 250-62-070 | NEW-S | 93-18-027 | 251-05-080 | REP-P | 93-22-038 |
| 250-25-070 | AMD-P | 93-11-088 | 250-62-080 | NEW-P | 93-12-106 | 251-06-020 | AMD-E | 93-14-092 |
| 250-25-070 | AMD | 93-19-023 | 250-62-080 | NEW-S | 93-18-027 | 251-06-020 | AMD-E | 93-16-020 |
| 250-25-080 | AMD-P | 93-11-088 | 250-62-090 | NEW-P | 93-12-106 | 251-06-020 | AMD | 93-19-147 |
| 250-25-080 | AMD | 93-19-023 | 250-62-090 | NEW-S | 93-18-027 | 251-06-050 | AMD-P | 93-22-106 |
| 250-40 | AMD-C | 93-15-043 | 250-62-100 | NEW-P | 93-12-106 | 251-06-060 | AMD-P | 93-22-106 |
| 250-40-030 | AMD-P | 93-11-093 | 250-62-100 | NEW-S | 93-18-027 | 251-06-070 | AMD-P | 93-22-106 |
| 250-40-030 | AMD-E | 93-13-034 | 250-62-110 | NEW-P | 93-12-106 | 251-08-005 | AMD-E | 93-14-092 |
| 250-40-030 | AMD | 93-20-044 | 250-62-110 | NEW-S | 93-18-027 | 251-08-005 | AMD-P | 93-16-020 |
| 250-40-040 | AMD-P | 93-11-093 | 250-62-120 | NEW-P | 93-12-106 | 251-08-005 | AMD | 93-19-147 |
| 250-40-040 | AMD-E | 93-13-034 | 250-62-120 | NEW-S | 93-18-027 | 251-08-090 | AMD-E | 93-14-092 |
| 250-40-040 | AMD | 93-20-044 | 250-62-130 | NEW-P | 93-12-106 | 251-08-090 | AMD-P | 93-16-020 |
| 250-40-050 | AMD-P | 93-11-093 | 250-62-130 | NEW-S | 93-18-027 | 251-08-090 | AMD | 93-19-147 |
| 250-40-050 | AMD-E | 93-13-034 | 250-62-140 | NEW-P | 93-12-106 | 251-10-030 | AMD-P | 93-22-106 |
| 250-40-050 | AMD | 93-20-044 | 250-62-140 | NEW-S | 93-18-027 | 251-10-060 | AMD-E | 93-13-008 |
| 250-40-060 | AMD-P | 93-11-093 | 250-62-150 | NEW-P | 93-12-106 | 251-10-060 | AMD-P | 93-16-095 |
| 250-40-060 | AMD-E | 93-13-034 | 250-62-150 | NEW-S | 93-18-027 | 251-10-060 | AMD | 93-19-078 |
| 250-40-060 | AMD | 93-20-044 | 250-62-160 | NEW-P | 93-12-106 | 251-10-061 | NEW-E | 93-13-008 |
| 250-40-070 | AMD-P | 93-11-093 | 250-62-160 | NEW-S | 93-18-027 | 251-10-061 | NEW-P | 93-16-095 |
| 250-40-070 | AMD-E | 93-13-034 | 250-62-170 | NEW-P | 93-12-106 | 251-10-061 | NEW | 93-19-078 |
| 250-40-070 | AMD | 93-20-044 | 250-62-170 | NEW-S | 93-18-027 | 251-10-070 | AMD-P | 93-22-106 |
| 250-44-050 | AMD | 93-07-061 | 250-62-180 | NEW-P | 93-12-106 | 251-11-030 | AMD-P | 93-22-106 |
| 250-44-110 | AMD | 93-07-061 | 250-62-180 | NEW-S | 93-18-027 | 251-11-050 | AMD-P | 93-22-106 |
| 250-44-130 | AMD | 93-07-061 | 250-62-190 | NEW-P | 93-12-106 | 251-11-090 | AMD-P | 93-22-106 |
| 250-61-010 | REP-P | 93-12-106 | 250-62-190 | NEW-S | 93-18-027 | 251-11-110 | AMD-P | 93-22-106 |

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| 251-12-071 | AMD-P | 93-22-106 | 260-08-030 | REP | 93-24-015 | 260-08-480 | REP-P | 93-20-115 |
| 251-12-075 | AMD-P | 93-22-106 | 260-08-040 | REP-P | 93-20-115 | 260-08-480 | REP | 93-24-015 |
| 251-12-076 | AMD-P | 93-22-106 | 260-08-040 | REP | 93-24-015 | 260-08-490 | REP-P | 93-20-115 |
| 251-12-080 | AMD-P | 93-22-106 | 260-08-050 | REP-P | 93-20-115 | 260-08-490 | REP | 93-24-015 |
| 251-12-085 | REP-P | 93-22-106 | 260-08-050 | REP | 93-24-015 | 260-08-500 | REP-P | 93-20-115 |
| 251-12-096 | AMD-P | 93-22-106 | 260-08-060 | REP-P | 93-20-115 | 260-08-500 | REP | 93-24-015 |
| 251-12-097 | REP-P | 93-22-106 | 260-08-060 | REP | 93-24-015 | 260-08-510 | REP-P | 93-20-115 |
| 251-12-240 | AMD | 93-06-033 | 260-08-070 | REP-P | 93-20-115 | 260-08-510 | REP | 93-24-015 |
| 251-12-290 | AMD | 93-06-033 | 260-08-070 | REP | 93-24-015 | 260-08-520 | REP-P | 93-20-115 |
| 251-12-600 | AMD-P | 93-22-106 | 260-08-080 | REP-P | 93-20-115 | 260-08-520 | REP | 93-24-015 |
| 251-14-090 | AMD-P | 93-22-106 | 260-08-080 | REP | 93-24-015 | 260-08-530 | REP-P | 93-20-115 |
| 251-14-130 | NEW-P | 93-22-105 | 260-08-090 | REP-P | 93-20-115 | 260-08-530 | REP | 93-24-015 |
| 251-17-090 | AMD-E | 93-13-008 | 260-08-090 | REP | 93-24-015 | 260-08-540 | REP-P | 93-20-115 |
| 251-17-090 | AMD-P | 93-16-095 | 260-08-100 | REP-P | 93-20-115 | 260-08-540 | REP | 93-24-015 |
| 251-17-090 | AMD | 93-19-078 | 260-08-100 | REP | 93-24-015 | 260-08-550 | REP-P | 93-20-115 |
| 251-17-170 | AMD-P | 93-22-106 | 260-08-110 | REP-P | 93-20-115 | 260-08-550 | REP | 93-24-015 |
| 251-18-180 | AMD-E | 93-13-008 | 260-08-110 | REP | 93-24-015 | 260-08-560 | REP-P | 93-20-115 |
| 251-18-180 | AMD-P | 93-16-095 | 260-08-120 | REP-P | 93-20-115 | 260-08-560 | REP | 93-24-015 |
| 251-18-180 | AMD | 93-19-078 | 260-08-120 | REP | 93-24-015 | 260-08-570 | REP-P | 93-20-115 |
| 251-18-190 | AMD-E | 93-13-008 | 260-08-130 | REP-P | 93-20-115 | 260-08-570 | REP | 93-24-015 |
| 251-18-190 | AMD-P | 93-16-095 | 260-08-130 | REP | 93-24-015 | 260-08-580 | REP-P | 93-20-115 |
| 251-18-190 | AMD | 93-19-078 | 260-08-140 | REP-P | 93-20-115 | 260-08-580 | REP | 93-24-015 |
| 251-18-240 | AMD-E | 93-13-008 | 260-08-140 | REP | 93-24-015 | 260-08-590 | REP-P | 93-20-115 |
| 251-18-240 | AMD-E | 93-14-092 | 260-08-230 | REP-P | 93-20-115 | 260-08-590 | REP | 93-24-015 |
| 251-18-240 | AMD-P | 93-16-020 | 260-08-230 | REP | 93-24-015 | 260-08-600 | NEW-P | 93-20-114 |
| 251-18-240 | AMD-P | 93-16-095 | 260-08-240 | REP-P | 93-20-115 | 260-08-600 | NEW | 93-24-016 |
| 251-18-240 | AMD-W | 93-19-077 | 260-08-240 | REP | 93-24-015 | 260-08-610 | NEW-P | 93-20-114 |
| 251-18-240 | AMD | 93-19-147 | 260-08-250 | REP-P | 93-20-115 | 260-08-610 | NEW | 93-24-016 |
| 251-18-260 | AMD-E | 93-14-092 | 260-08-250 | REP | 93-24-015 | 260-08-620 | NEW-P | 93-20-114 |
| 251-18-260 | AMD-P | 93-16-020 | 260-08-260 | REP-P | 93-20-115 | 260-08-620 | NEW | 93-24-016 |
| 251-18-260 | AMD | 93-19-147 | 260-08-260 | REP | 93-24-015 | 260-08-630 | NEW-P | 93-20-114 |
| 251-18-280 | AMD-E | 93-14-092 | 260-08-270 | REP-P | 93-20-115 | 260-08-630 | NEW | 93-24-016 |
| 251-18-280 | AMD-P | 93-16-020 | 260-08-270 | REP | 93-24-015 | 260-08-640 | NEW-P | 93-20-114 |
| 251-18-280 | AMD | 93-19-147 | 260-08-280 | REP-P | 93-20-115 | 260-08-640 | NEW | 93-24-016 |
| 251-19-010 | AMD-E | 93-13-008 | 260-08-280 | REP | 93-24-015 | 260-08-650 | NEW-P | 93-20-114 |
| 251-19-010 | AMD-P | 93-16-095 | 260-08-290 | REP-P | 93-20-115 | 260-08-650 | NEW | 93-24-016 |
| 251-19-010 | AMD | 93-19-078 | 260-08-290 | REP | 93-24-015 | 260-08-660 | NEW-P | 93-20-114 |
| 251-19-060 | AMD-E | 93-13-008 | 260-08-300 | REP-P | 93-20-115 | 260-08-660 | NEW | 93-24-016 |
| 251-19-060 | AMD-P | 93-16-095 | 260-08-300 | REP | 93-24-015 | 260-08-670 | NEW-P | 93-20-114 |
| 251-19-060 | AMD | 93-19-078 | 260-08-310 | REP-P | 93-20-115 | 260-08-670 | NEW | 93-24-016 |
| 251-19-060 | AMD-P | 93-22-106 | 260-08-310 | REP | 93-24-015 | 260-08-680 | NEW-P | 93-20-114 |
| 251-19-100 | AMD-E | 93-13-008 | 260-08-320 | REP-P | 93-20-115 | 260-08-680 | NEW | 93-24-016 |
| 251-19-100 | AMD-P | 93-16-095 | 260-08-320 | REP | 93-24-015 | 260-08-690 | NEW-P | 93-20-123 |
| 251-19-100 | AMD | 93-19-078 | 260-08-330 | REP-P | 93-20-115 | 260-08-690 | NEW | 93-24-017 |
| 251-22-116 | NEW | 93-14-115 | 260-08-330 | REP | 93-24-015 | 260-08-700 | NEW-P | 93-20-123 |
| 251-22-167 | AMD-P | 93-11-103 | 260-08-340 | REP-P | 93-20-115 | 260-08-700 | NEW | 93-24-017 |
| 251-22-167 | AMD | 93-14-115 | 260-08-340 | REP | 93-24-015 | 260-08-710 | NEW-P | 93-20-123 |
| 251-22-167 | AMD | 93-16-061 | 260-08-350 | REP-P | 93-20-115 | 260-08-710 | NEW | 93-24-017 |
| 251-22-195 | AMD-P | 93-11-103 | 260-08-350 | REP | 93-24-015 | 260-08-720 | NEW-P | 93-20-123 |
| 251-22-195 | AMD | 93-14-115 | 260-08-360 | REP-P | 93-20-115 | 260-08-720 | NEW | 93-24-017 |
| 251-22-195 | AMD | 93-16-061 | 260-08-360 | REP | 93-24-015 | 260-08-730 | NEW-P | 93-20-123 |
| 251-22-197 | NEW-P | 93-11-103 | 260-08-370 | REP-P | 93-20-115 | 260-08-730 | NEW | 93-24-017 |
| 251-22-197 | NEW | 93-14-115 | 260-08-370 | REP | 93-24-015 | 260-08-740 | NEW-P | 93-20-123 |
| 251-22-200 | AMD-P | 93-11-103 | 260-08-380 | REP-P | 93-20-115 | 260-08-740 | NEW | 93-24-017 |
| 251-22-200 | AMD | 93-14-115 | 260-08-380 | REP | 93-24-015 | 260-08-750 | NEW-P | 93-20-123 |
| 251-22-215 | REP | 93-06-032 | 260-08-390 | REP-P | 93-20-115 | 260-08-750 | NEW | 93-24-017 |
| 251-23-010 | REP-P | 93-24-079 | 260-08-390 | REP | 93-24-015 | 260-08-760 | NEW-P | 93-20-124 |
| 251-23-015 | REP-P | 93-24-079 | 260-08-400 | REP-P | 93-20-115 | 260-08-760 | NEW | 93-24-018 |
| 251-23-020 | REP-P | 93-24-079 | 260-08-400 | REP | 93-24-015 | 260-08-770 | NEW-P | 93-20-124 |
| 251-23-030 | REP-P | 93-24-079 | 260-08-410 | REP-P | 93-20-115 | 260-08-770 | NEW | 93-24-018 |
| 251-23-040 | REP-P | 93-24-079 | 260-08-410 | REP | 93-24-015 | 260-08-780 | NEW-P | 93-20-124 |
| 251-23-050 | REP-P | 93-24-079 | 260-08-420 | REP-P | 93-20-115 | 260-08-780 | NEW | 93-24-018 |
| 251-23-060 | REP-P | 93-24-079 | 260-08-420 | REP | 93-24-015 | 260-08-790 | NEW-P | 93-20-124 |
| 251-25-010 | REP-P | 93-22-041 | 260-08-430 | REP-P | 93-20-115 | 260-08-790 | NEW | 93-24-018 |
| 251-25-020 | REP-P | 93-22-041 | 260-08-430 | REP | 93-24-015 | 260-08-800 | NEW-P | 93-20-124 |
| 251-25-030 | REP-P | 93-22-041 | 260-08-440 | REP-P | 93-20-115 | 260-08-800 | NEW | 93-24-018 |
| 251-25-040 | REP-P | 93-22-041 | 260-08-440 | REP | 93-24-015 | 260-08-810 | NEW-P | 93-20-124 |
| 251-25-050 | REP-P | 93-22-041 | 260-08-450 | REP-P | 93-20-115 | 260-08-810 | NEW | 93-24-018 |
| 260-08-005 | AMD-P | 93-20-121 | 260-08-450 | REP | 93-24-015 | 260-08-820 | NEW-P | 93-20-124 |
| 260-08-005 | AMD | 93-24-019 | 260-08-460 | REP-P | 93-20-115 | 260-08-820 | NEW | 93-24-018 |
| 260-08-010 | REP-P | 93-20-115 | 260-08-460 | REP | 93-24-015 | 260-08-830 | NEW-P | 93-20-124 |
| 260-08-010 | REP | 93-24-015 | 260-08-470 | REP-P | 93-20-115 | 260-08-830 | NEW | 93-24-018 |

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| 260-12-090 | REP-P | 93-20-115 | 275-19-220 | REP-P | 93-18-008 | 275-25-840 | REP-E | 93-11-051 |
| 260-24-010 | AMD-P | 93-20-117 | 275-19-230 | REP-P | 93-18-008 | 275-25-840 | REP-P | 93-11-053 |
| 260-24-080 | AMD-P | 93-20-117 | 275-19-240 | REP-P | 93-18-008 | 275-25-840 | REP | 93-15-013 |
| 260-24-110 | AMD-P | 93-20-117 | 275-19-250 | REP-P | 93-18-008 | 275-26-065 | AMD | 93-04-029 |
| 260-24-120 | AMD-P | 93-20-117 | 275-19-260 | REP-P | 93-18-008 | 275-27-220 | AMD-E | 93-21-077 |
| 260-24-140 | AMD-P | 93-20-117 | 275-19-270 | REP-P | 93-18-008 | 275-27-220 | AMD-P | 93-21-078 |
| 260-24-150 | AMD-P | 93-20-117 | 275-19-280 | REP-P | 93-18-008 | 275-27-220 | AMD-S | 94-01-062 |
| 260-24-170 | AMD-P | 93-20-117 | 275-19-300 | REP-P | 93-18-008 | 275-27-220 | RESCIND | 94-01-063 |
| 260-24-180 | AMD-P | 93-20-117 | 275-19-320 | REP-P | 93-18-008 | 275-27-220 | AMD-E | 94-01-064 |
| 260-24-200 | AMD-P | 93-20-117 | 275-19-400 | REP-P | 93-18-008 | 275-27-221 | NEW-E | 93-21-077 |
| 260-24-210 | AMD-P | 93-20-122 | 275-19-410 | REP-P | 93-18-008 | 275-27-221 | NEW-P | 93-21-078 |
| 260-24-285 | NEW-P | 93-20-118 | 275-19-430 | REP-P | 93-18-008 | 275-27-221 | NEW-S | 94-01-062 |
| 260-24-290 | AMD-P | 93-20-122 | 275-19-450 | REP-P | 93-18-008 | 275-27-221 | RESCIND | 94-01-063 |
| 260-24-315 | NEW-P | 93-20-118 | 275-19-455 | REP-P | 93-18-008 | 275-27-221 | NEW-E | 94-01-064 |
| 260-24-440 | AMD-P | 93-20-122 | 275-19-500 | REP-P | 93-18-008 | 275-27-223 | AMD-E | 93-21-077 |
| 260-24-460 | AMD-P | 93-20-122 | 275-19-530 | REP-P | 93-18-008 | 275-27-223 | AMD-P | 93-21-078 |
| 260-24-470 | AMD-P | 93-20-122 | 275-19-550 | REP-P | 93-18-008 | 275-27-223 | AMD-S | 94-01-062 |
| 260-24-500 | NEW-P | 93-20-118 | 275-19-560 | REP-P | 93-18-008 | 275-27-223 | RESCIND | 94-01-063 |
| 260-24-510 | NEW-P | 93-20-118 | 275-19-570 | REP-P | 93-18-008 | 275-27-223 | AMD-E | 94-01-064 |
| 260-24-520 | NEW-P | 93-20-118 | 275-19-580 | REP-P | 93-18-008 | 275-38-860 | AMD-P | 93-14-074 |
| 260-32-115 | NEW-P | 93-18-071 | 275-19-585 | REP-P | 93-18-008 | 275-38-860 | AMD-E | 93-14-076 |
| 260-32-115 | NEW | 93-23-010 | 275-19-590 | REP-P | 93-18-008 | 275-38-860 | AMD | 93-17-034 |
| 260-34-030 | AMD-P | 93-20-119 | 275-19-595 | REP-P | 93-18-008 | 275-38-906 | AMD-P | 93-14-074 |
| 260-36-080 | AMD-E | 93-24-021 | 275-19-600 | REP-P | 93-18-008 | 275-38-906 | AMD-E | 93-14-076 |
| 260-36-080 | AMD-P | 93-24-118 | 275-19-610 | REP-P | 93-18-008 | 275-38-906 | AMD | 93-17-034 |
| 260-44-060 | AMD-P | 93-18-070 | 275-19-650 | REP-P | 93-18-008 | 275-56 | AMD-C | 93-23-026 |
| 260-44-060 | AMD | 93-23-011 | 275-19-660 | REP-P | 93-18-008 | 275-56 | AMD-C | 93-23-078 |
| 260-48-110 | AMD-E | 93-09-008 | 275-19-675 | REP-P | 93-18-008 | 275-56 | AMD-C | 93-24-088 |
| 260-48-110 | AMD-P | 93-11-060 | 275-19-680 | REP-P | 93-18-008 | 275-56 | AMD-C | 94-01-079 |
| 260-48-110 | AMD | 93-14-124 | 275-19-700 | REP-P | 93-18-008 | 275-56 | AMD-C | 94-01-140 |
| 260-48-328 | AMD-P | 93-11-101 | 275-19-710 | REP-P | 93-18-008 | 275-56-015 | AMD-P | 93-19-095 |
| 260-48-328 | AMD | 93-14-125 | 275-19-750 | REP-P | 93-18-008 | 275-56-015 | AMD-E | 93-19-098 |
| 260-48-331 | NEW-P | 93-11-102 | 275-19-760 | REP-P | 93-18-008 | 275-56-015 | AMD-C | 93-24-088 |
| 260-48-331 | NEW | 93-14-126 | 275-19-770 | REP-P | 93-18-008 | 275-56-015 | AMD-C | 94-01-079 |
| 260-70-010 | AMD-P | 93-20-120 | 275-19-800 | REP-P | 93-18-008 | 275-56-600 | NEW-P | 93-19-095 |
| 260-70-025 | AMD-E | 93-15-020 | 275-19-810 | REP-P | 93-18-008 | 275-56-600 | NEW-E | 93-19-098 |
| 260-70-025 | AMD-P | 93-18-072 | 275-19-820 | REP-P | 93-18-008 | 275-56-610 | NEW-P | 93-19-095 |
| 260-70-025 | AMD | 93-23-009 | 275-19-830 | REP-P | 93-18-008 | 275-56-610 | NEW-E | 93-19-098 |
| 260-70-028 | AMD-E | 93-15-021 | 275-19-900 | REP-P | 93-18-008 | 275-56-620 | NEW-P | 93-19-095 |
| 260-70-028 | AMD-P | 93-18-073 | 275-19-910 | REP-P | 93-18-008 | 275-56-620 | NEW-E | 93-19-098 |
| 260-70-028 | AMD | 93-23-008 | 275-19-920 | REP-P | 93-18-008 | 275-56-630 | NEW-P | 93-19-095 |
| 260-70-040 | AMD-E | 93-24-020 | 275-19-930 | REP-P | 93-18-008 | 275-56-630 | NEW-E | 93-19-098 |
| 260-70-040 | AMD-P | 93-24-118 | 275-19-940 | REP-P | 93-18-008 | 275-56-640 | NEW-P | 93-19-095 |
| 260-72-020 | AMD-P | 93-24-022 | 275-19-950 | REP-P | 93-18-008 | 275-56-640 | NEW-E | 93-19-098 |
| 275-16-030 | AMD-P | 93-16-002 | 275-19-960 | REP-P | 93-18-008 | 275-56-650 | NEW-P | 93-19-095 |
| 275-16-030 | AMD-E | 93-16-004 | 275-19-970 | REP-P | 93-18-008 | 275-56-650 | NEW-E | 93-19-098 |
| 275-16-030 | AMD-S | 93-19-055 | 275-19-980 | REP-P | 93-18-008 | 275-56-660 | NEW-P | 93-19-095 |
| 275-16-030 | AMD-E | 93-20-052 | 275-19-985 | REP-P | 93-18-008 | 275-56-660 | NEW-E | 93-19-098 |
| 275-16-030 | RESCIND | 93-20-054 | 275-19-990 | REP-P | 93-18-008 | 275-56-670 | NEW-P | 93-19-095 |
| 275-16-030 | AMD | 93-22-031 | 275-25 | AMD-E | 93-11-051 | 275-56-670 | NEW-E | 93-19-098 |
| 275-19 | REP-C | 93-24-040 | 275-25 | AMD-P | 93-11-053 | 275-56-680 | NEW-P | 93-19-095 |
| 275-19-010 | REP-P | 93-18-008 | 275-25 | AMD | 93-15-013 | 275-56-680 | NEW-E | 93-19-098 |
| 275-19-020 | REP-P | 93-18-008 | 275-25-010 | AMD-E | 93-11-051 | 275-56-690 | NEW-P | 93-19-095 |
| 275-19-030 | REP-P | 93-18-008 | 275-25-010 | AMD-P | 93-11-053 | 275-56-690 | NEW-E | 93-19-098 |
| 275-19-040 | REP-P | 93-18-008 | 275-25-010 | AMD | 93-15-013 | 275-56-700 | NEW-P | 93-19-095 |
| 275-19-050 | REP-P | 93-18-008 | 275-25-040 | AMD-E | 93-11-051 | 275-56-700 | NEW-E | 93-19-098 |
| 275-19-060 | REP-P | 93-18-008 | 275-25-040 | AMD-P | 93-11-053 | 275-56-710 | NEW-P | 93-19-095 |
| 275-19-070 | REP-P | 93-18-008 | 275-25-040 | AMD | 93-15-013 | 275-56-710 | NEW-E | 93-19-098 |
| 275-19-075 | REP-P | 93-18-008 | 275-25-300 | REP-E | 93-11-051 | 275-56-720 | NEW-P | 93-19-095 |
| 275-19-080 | REP-P | 93-18-008 | 275-25-300 | REP-P | 93-11-053 | 275-56-720 | NEW-E | 93-19-098 |
| 275-19-100 | REP-P | 93-18-008 | 275-25-300 | REP | 93-15-013 | 275-155-020 | AMD-P | 93-14-073 |
| 275-19-110 | REP-P | 93-18-008 | 275-25-310 | REP-E | 93-11-051 | 275-155-020 | AMD | 93-17-027 |
| 275-19-130 | REP-P | 93-18-008 | 275-25-310 | REP-P | 93-11-053 | 275-155-050 | AMD-P | 93-14-073 |
| 275-19-135 | REP-P | 93-18-008 | 275-25-310 | REP | 93-15-013 | 275-155-050 | AMD | 93-17-027 |
| 275-19-140 | REP-P | 93-18-008 | 275-25-330 | REP-E | 93-11-051 | 284-07-060 | NEW-C | 93-04-062 |
| 275-19-145 | REP-P | 93-18-008 | 275-25-330 | REP-P | 93-11-053 | 284-07-060 | NEW | 93-07-020 |
| 275-19-150 | REP-P | 93-18-008 | 275-25-330 | REP | 93-15-013 | 284-07-060 | AMD-P | 94-01-192 |
| 275-19-160 | REP-P | 93-18-008 | 275-25-340 | REP-E | 93-11-051 | 284-07-070 | NEW-P | 93-15-105 |
| 275-19-165 | REP-P | 93-18-008 | 275-25-340 | REP-P | 93-11-053 | 284-07-070 | NEW | 93-19-003 |
| 275-19-170 | REP-P | 93-18-008 | 275-25-340 | REP | 93-15-013 | 284-07-100 | AMD-P | 94-01-192 |
| 275-19-180 | REP-P | 93-18-008 | 275-25-810 | REP-E | 93-11-051 | 284-07-110 | AMD-P | 94-01-192 |
| 275-19-200 | REP-P | 93-18-008 | 275-25-810 | REP-P | 93-11-053 | 284-07-130 | AMD-P | 94-01-192 |

TABLE

Table of WAC Sections Affected

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|------------|-------|-----------|------------|-------|-----------|--------------|-------|-----------|
| 284-07-140 | AMD-P | 94-01-192 | 284-13-510 | NEW | 93-19-002 | 284-18-410 | NEW-P | 93-15-107 |
| 284-07-180 | AMD-P | 94-01-192 | 284-13-520 | NEW-P | 93-15-104 | 284-18-410 | NEW | 93-19-005 |
| 284-07-220 | AMD-P | 94-01-192 | 284-13-520 | NEW | 93-19-002 | 284-18-420 | NEW-P | 93-15-107 |
| 284-10-010 | NEW-P | 93-23-073 | 284-13-540 | NEW-P | 93-15-104 | 284-18-420 | NEW | 93-19-005 |
| 284-10-015 | NEW-P | 93-23-073 | 284-13-540 | NEW | 93-19-002 | 284-18-430 | NEW-P | 93-15-107 |
| 284-10-020 | NEW-P | 93-23-073 | 284-13-550 | NEW-P | 93-15-104 | 284-18-430 | NEW | 93-19-005 |
| 284-10-030 | NEW-P | 93-23-073 | 284-13-550 | NEW | 93-19-002 | 284-18-440 | NEW-P | 93-15-107 |
| 284-10-060 | NEW-P | 93-23-073 | 284-13-560 | NEW-P | 93-15-104 | 284-18-440 | NEW | 93-19-005 |
| 284-10-070 | NEW-P | 93-23-073 | 284-13-560 | NEW | 93-19-002 | 284-18-450 | NEW-P | 93-15-107 |
| 284-10-080 | NEW-P | 93-23-073 | 284-13-570 | NEW-P | 93-15-104 | 284-18-450 | NEW | 93-19-005 |
| 284-10-090 | NEW-P | 93-23-073 | 284-13-570 | NEW | 93-19-002 | 284-18-460 | NEW-P | 93-15-107 |
| 284-10-100 | NEW-P | 93-23-073 | 284-13-580 | NEW-P | 93-15-104 | 284-18-460 | NEW | 93-19-005 |
| 284-10-110 | NEW-P | 93-23-073 | 284-13-580 | NEW | 93-19-002 | 284-18-910 | NEW-P | 93-15-107 |
| 284-10-120 | NEW-P | 93-23-073 | 284-13-590 | NEW-P | 93-15-104 | 284-18-910 | NEW | 93-19-005 |
| 284-10-130 | NEW-P | 93-23-073 | 284-13-590 | NEW | 93-19-002 | 284-18-920 | NEW-P | 93-15-107 |
| 284-10-140 | NEW-P | 93-23-073 | 284-13-700 | NEW-P | 93-15-113 | 284-18-920 | NEW | 93-19-005 |
| 284-10-150 | NEW-P | 93-23-073 | 284-13-700 | NEW | 93-19-011 | 284-18-930 | NEW-P | 93-15-107 |
| 284-10-160 | NEW-P | 93-23-073 | 284-13-710 | NEW-P | 93-15-113 | 284-18-930 | NEW | 93-19-005 |
| 284-10-170 | NEW-P | 93-23-073 | 284-13-710 | NEW | 93-19-011 | 284-18-940 | NEW-P | 93-15-107 |
| 284-10-180 | NEW-P | 93-23-073 | 284-13-720 | NEW-P | 93-15-113 | 284-18-940 | NEW | 93-19-005 |
| 284-10-190 | NEW-P | 93-23-073 | 284-13-720 | NEW | 93-19-011 | 284-18-990 | REP-P | 93-15-107 |
| 284-10-200 | NEW-P | 93-23-073 | 284-13-730 | NEW-P | 93-15-113 | 284-18-990 | REP | 93-19-005 |
| 284-12-200 | NEW-P | 93-15-111 | 284-13-730 | NEW | 93-19-011 | 284-18-99001 | REP-P | 93-15-107 |
| 284-12-200 | NEW | 93-19-009 | 284-13-740 | NEW-P | 93-15-113 | 284-18-99001 | REP | 93-19-005 |
| 284-12-210 | NEW-P | 93-15-111 | 284-13-740 | NEW | 93-19-011 | 284-22-010 | AMD-P | 93-14-072 |
| 284-12-210 | NEW | 93-19-009 | 284-15-100 | NEW-P | 93-15-110 | 284-22-010 | AMD-P | 93-17-105 |
| 284-12-220 | NEW-P | 93-15-111 | 284-15-100 | NEW | 93-19-008 | 284-22-010 | AMD | 93-20-019 |
| 284-12-220 | NEW | 93-19-009 | 284-18-010 | REP-P | 93-15-107 | 284-22-020 | AMD-P | 93-14-072 |
| 284-12-230 | NEW-P | 93-15-111 | 284-18-010 | REP | 93-19-005 | 284-22-020 | AMD-P | 93-17-105 |
| 284-12-230 | NEW | 93-19-009 | 284-18-020 | REP-P | 93-15-107 | 284-22-020 | AMD | 93-20-019 |
| 284-12-250 | NEW-P | 93-15-111 | 284-18-020 | REP | 93-19-005 | 284-22-030 | AMD-P | 93-14-072 |
| 284-12-250 | NEW | 93-19-009 | 284-18-030 | REP-P | 93-15-107 | 284-22-030 | AMD-P | 93-17-105 |
| 284-12-260 | NEW-P | 93-15-111 | 284-18-030 | REP | 93-19-005 | 284-22-030 | AMD | 93-20-019 |
| 284-12-260 | NEW | 93-19-009 | 284-18-040 | REP-P | 93-15-107 | 284-22-050 | AMD-P | 93-14-072 |
| 284-12-270 | NEW-P | 93-15-111 | 284-18-040 | REP | 93-19-005 | 284-22-050 | AMD-P | 93-17-105 |
| 284-12-270 | NEW | 93-19-009 | 284-18-050 | REP-P | 93-15-107 | 284-22-050 | AMD | 93-20-019 |
| 284-12-280 | NEW-P | 93-15-111 | 284-18-050 | REP | 93-19-005 | 284-22-060 | AMD-P | 93-14-072 |
| 284-12-280 | NEW | 93-19-009 | 284-18-060 | REP-P | 93-15-107 | 284-22-060 | AMD-P | 93-17-105 |
| 284-13-160 | NEW-P | 93-15-106 | 284-18-060 | REP | 93-19-005 | 284-22-060 | AMD | 93-20-019 |
| 284-13-160 | NEW | 93-19-004 | 284-18-070 | REP-P | 93-15-107 | 284-32-140 | AMD-P | 93-15-103 |
| 284-13-210 | NEW-P | 93-15-109 | 284-18-070 | REP | 93-19-005 | 284-32-140 | AMD | 93-19-001 |
| 284-13-210 | NEW | 93-19-007 | 284-18-080 | REP-P | 93-15-107 | 284-44-241 | NEW-P | 93-15-092 |
| 284-13-220 | NEW-P | 93-15-109 | 284-18-080 | REP | 93-19-005 | 284-44-241 | NEW-C | 93-18-074 |
| 284-13-220 | NEW | 93-19-007 | 284-18-090 | REP-P | 93-15-107 | 284-44-241 | NEW-C | 93-20-046 |
| 284-13-280 | NEW-P | 93-15-112 | 284-18-090 | REP | 93-19-005 | 284-44-241 | NEW-C | 93-22-056 |
| 284-13-280 | NEW | 93-19-010 | 284-18-100 | REP-P | 93-15-107 | 284-44-241 | NEW-W | 94-01-075 |
| 284-13-310 | NEW-P | 93-15-114 | 284-18-100 | REP | 93-19-005 | 284-46-576 | NEW-P | 93-15-093 |
| 284-13-310 | NEW | 93-19-012 | 284-18-110 | REP-P | 93-15-107 | 284-46-576 | NEW-C | 93-18-074 |
| 284-13-320 | NEW-P | 93-15-114 | 284-18-110 | REP | 93-19-005 | 284-46-576 | NEW-C | 93-20-046 |
| 284-13-320 | NEW | 93-19-012 | 284-18-120 | REP-P | 93-15-107 | 284-46-576 | NEW-C | 93-22-056 |
| 284-13-330 | NEW-P | 93-15-114 | 284-18-120 | REP | 93-19-005 | 284-46-576 | NEW-W | 94-01-075 |
| 284-13-330 | NEW | 93-19-012 | 284-18-300 | NEW-P | 93-15-107 | 284-87-010 | NEW-P | 93-22-107 |
| 284-13-340 | NEW-P | 93-15-114 | 284-18-300 | NEW | 93-19-005 | 284-87-020 | NEW-P | 93-22-107 |
| 284-13-340 | NEW | 93-19-012 | 284-18-310 | NEW-P | 93-15-107 | 284-87-030 | NEW-P | 93-22-107 |
| 284-13-350 | NEW-P | 93-15-114 | 284-18-310 | NEW | 93-19-005 | 284-87-040 | NEW-P | 93-22-107 |
| 284-13-350 | NEW | 93-19-012 | 284-18-320 | NEW-P | 93-15-107 | 284-87-050 | NEW-P | 93-22-107 |
| 284-13-360 | NEW-P | 93-15-114 | 284-18-320 | NEW | 93-19-005 | 284-87-060 | NEW-P | 93-22-107 |
| 284-13-360 | NEW | 93-19-012 | 284-18-330 | NEW-P | 93-15-107 | 284-87-070 | NEW-P | 93-22-107 |
| 284-13-370 | NEW-P | 93-15-114 | 284-18-330 | NEW | 93-19-005 | 284-87-080 | NEW-P | 93-22-107 |
| 284-13-370 | NEW | 93-19-012 | 284-18-340 | NEW-P | 93-15-107 | 284-87-090 | NEW-P | 93-22-107 |
| 284-13-380 | NEW-P | 93-15-114 | 284-18-340 | NEW | 93-19-005 | 284-87-100 | NEW-P | 93-22-107 |
| 284-13-380 | NEW | 93-19-012 | 284-18-350 | NEW-P | 93-15-107 | 284-87-110 | NEW-P | 93-22-107 |
| 284-13-390 | NEW-P | 93-15-114 | 284-18-350 | NEW | 93-19-005 | 284-87-120 | NEW-P | 93-22-107 |
| 284-13-390 | NEW | 93-19-012 | 284-18-360 | NEW-P | 93-15-107 | 284-87-130 | NEW-P | 93-22-107 |
| 284-13-400 | NEW-P | 93-15-114 | 284-18-360 | NEW | 93-19-005 | 284-87-140 | NEW-P | 93-22-107 |
| 284-13-400 | NEW | 93-19-012 | 284-18-370 | NEW-P | 93-15-107 | 284-87-150 | NEW-P | 93-22-107 |
| 284-13-410 | NEW-P | 93-15-114 | 284-18-370 | NEW | 93-19-005 | 284-87-160 | NEW-P | 93-22-107 |
| 284-13-410 | NEW | 93-19-012 | 284-18-380 | NEW-P | 93-15-107 | 284-87-170 | NEW-P | 93-22-107 |
| 284-13-420 | NEW-P | 93-15-114 | 284-18-380 | NEW | 93-19-005 | 284-92-010 | NEW-P | 93-15-108 |
| 284-13-420 | NEW | 93-19-012 | 284-18-390 | NEW-P | 93-15-107 | 284-92-010 | NEW | 93-19-006 |
| 284-13-500 | NEW-P | 93-15-104 | 284-18-390 | NEW | 93-19-005 | 284-92-020 | NEW-P | 93-15-108 |
| 284-13-500 | NEW | 93-19-002 | 284-18-400 | NEW-P | 93-15-107 | 284-92-020 | NEW | 93-19-006 |
| 284-13-510 | NEW-P | 93-15-104 | 284-18-400 | NEW | 93-19-005 | 284-92-210 | NEW-P | 93-15-108 |

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| WAC # | WSR # | WAC # | WSR # | WAC # | WSR # | | | |
|--------------|-------|-----------|--------------|-------|-----------|--------------|-------|-----------|
| 284-92-210 | NEW | 93-19-006 | 296-15-060 | AMD-P | 93-07-115 | 296-17-584 | AMD-P | 93-07-114 |
| 284-92-220 | NEW-P | 93-15-108 | 296-15-060 | AMD | 93-11-064 | 296-17-584 | AMD | 93-12-093 |
| 284-92-220 | NEW | 93-19-006 | 296-15-065 | AMD-P | 93-07-115 | 296-17-58502 | NEW-P | 93-07-114 |
| 284-92-230 | NEW-P | 93-15-108 | 296-15-065 | AMD | 93-11-064 | 296-17-58502 | NEW | 93-12-093 |
| 284-92-230 | NEW | 93-19-006 | 296-15-170 | AMD-P | 93-24-113 | 296-17-594 | AMD-P | 93-07-114 |
| 284-92-240 | NEW-P | 93-15-108 | 296-17-350 | AMD-P | 93-07-114 | 296-17-594 | AMD | 93-12-093 |
| 284-92-240 | NEW | 93-19-006 | 296-17-350 | AMD | 93-12-093 | 296-17-604 | AMD-P | 93-07-114 |
| 284-92-250 | NEW-P | 93-15-108 | 296-17-430 | AMD-P | 93-07-114 | 296-17-604 | AMD | 93-12-093 |
| 284-92-250 | NEW | 93-19-006 | 296-17-430 | AMD | 93-12-093 | 296-17-606 | AMD-P | 93-07-114 |
| 284-92-260 | NEW-P | 93-15-108 | 296-17-440 | AMD-P | 93-07-114 | 296-17-606 | AMD | 93-12-093 |
| 284-92-260 | NEW | 93-19-006 | 296-17-440 | AMD | 93-12-093 | 296-17-618 | AMD-P | 93-07-114 |
| 284-92-270 | NEW-P | 93-15-108 | 296-17-450 | AMD-P | 93-07-114 | 296-17-618 | AMD | 93-12-093 |
| 284-92-270 | NEW | 93-19-006 | 296-17-450 | AMD | 93-12-093 | 296-17-61804 | AMD-P | 93-07-114 |
| 284-92-280 | NEW-P | 93-15-108 | 296-17-501 | AMD-P | 93-07-114 | 296-17-61804 | AMD | 93-12-093 |
| 284-92-280 | NEW | 93-19-006 | 296-17-501 | AMD | 93-12-093 | 296-17-646 | AMD-P | 93-07-114 |
| 284-92-290 | NEW-P | 93-15-108 | 296-17-506 | AMD-P | 93-07-114 | 296-17-646 | AMD | 93-12-093 |
| 284-92-290 | NEW | 93-19-006 | 296-17-506 | AMD | 93-12-093 | 296-17-669 | AMD-P | 93-07-114 |
| 284-92-410 | NEW-P | 93-15-108 | 296-17-50601 | AMD-P | 93-07-114 | 296-17-669 | AMD | 93-12-093 |
| 284-92-410 | NEW | 93-19-006 | 296-17-50601 | AMD | 93-12-093 | 296-17-676 | AMD-P | 93-07-114 |
| 284-92-420 | NEW-P | 93-15-108 | 296-17-50602 | AMD-P | 93-07-114 | 296-17-676 | AMD | 93-12-093 |
| 284-92-420 | NEW | 93-19-006 | 296-17-50602 | AMD | 93-12-093 | 296-17-67601 | AMD-P | 93-07-114 |
| 284-92-430 | NEW-P | 93-15-108 | 296-17-510 | AMD-P | 93-07-114 | 296-17-67601 | AMD | 93-12-093 |
| 284-92-430 | NEW | 93-19-006 | 296-17-510 | AMD | 93-12-093 | 296-17-67602 | AMD-P | 93-07-114 |
| 284-92-440 | NEW-P | 93-15-108 | 296-17-512 | AMD-P | 93-07-114 | 296-17-67602 | AMD | 93-12-093 |
| 284-92-440 | NEW | 93-19-006 | 296-17-512 | AMD | 93-12-093 | 296-17-686 | AMD-P | 93-07-114 |
| 284-92-450 | NEW-P | 93-15-108 | 296-17-521 | AMD-P | 93-07-114 | 296-17-686 | AMD | 93-12-093 |
| 284-92-450 | NEW | 93-19-006 | 296-17-521 | AMD | 93-12-093 | 296-17-690 | AMD-P | 93-07-114 |
| 284-92-460 | NEW-P | 93-15-108 | 296-17-52102 | AMD-P | 93-07-114 | 296-17-690 | AMD | 93-12-093 |
| 284-92-460 | NEW | 93-19-006 | 296-17-52102 | AMD | 93-12-093 | 296-17-700 | AMD-P | 93-07-114 |
| 284-92-470 | NEW-P | 93-15-108 | 296-17-52108 | AMD-P | 93-07-114 | 296-17-700 | AMD | 93-12-093 |
| 284-92-470 | NEW | 93-19-006 | 296-17-52108 | AMD | 93-12-093 | 296-17-704 | AMD-P | 93-07-114 |
| 284-92-480 | NEW-P | 93-15-108 | 296-17-52110 | AMD-P | 93-07-114 | 296-17-704 | AMD | 93-12-093 |
| 284-92-480 | NEW | 93-19-006 | 296-17-52110 | AMD | 93-12-093 | 296-17-707 | AMD-P | 93-07-114 |
| 284-92-490 | NEW-P | 93-15-108 | 296-17-524 | AMD-P | 93-07-114 | 296-17-707 | AMD | 93-12-093 |
| 284-92-490 | NEW | 93-19-006 | 296-17-524 | AMD | 93-12-093 | 296-17-708 | AMD-P | 93-07-114 |
| 284-92-500 | NEW-P | 93-15-108 | 296-17-526 | AMD-P | 93-07-114 | 296-17-708 | AMD | 93-12-093 |
| 284-92-500 | NEW | 93-19-006 | 296-17-526 | AMD | 93-12-093 | 296-17-710 | AMD-P | 93-07-114 |
| 284-92-510 | NEW-P | 93-15-108 | 296-17-527 | AMD-P | 93-07-114 | 296-17-710 | AMD | 93-12-093 |
| 284-92-510 | NEW | 93-19-006 | 296-17-527 | AMD | 93-12-093 | 296-17-715 | AMD-P | 93-07-114 |
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| 296-14-910 | AMD | 93-23-060 | 296-17-57001 | AMD-P | 93-07-114 | 296-17-76201 | AMD | 93-12-093 |
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| 296-14-940 | AMD | 93-23-060 | 296-17-57003 | AMD-P | 93-07-114 | 296-17-76204 | AMD | 93-12-093 |
| 296-14-950 | REP-P | 98-18-105 | 296-17-57003 | AMD | 93-12-093 | 296-17-76205 | AMD-P | 93-07-114 |
| 296-14-950 | REP | 93-23-060 | 296-17-572 | AMD-P | 93-07-114 | 296-17-76205 | AMD | 93-12-093 |
| 296-14-960 | REP-P | 98-18-105 | 296-17-572 | AMD | 93-12-093 | 296-17-777 | AMD-P | 93-07-114 |
| 296-14-960 | REP | 93-23-060 | 296-17-574 | AMD-P | 93-07-114 | 296-17-777 | AMD | 93-12-093 |
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| 296-17-895 | AMD | 93-24-114 | 296-21-150 | REP | 93-16-072 | 296-21A-080 | REP-P | 93-11-095 |
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| 296-17-89501 | NEW | 93-12-093 | 296-21-160 | REP | 93-16-072 | 296-21A-086 | REP-P | 93-11-095 |
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| 296-17-896 | REP | 93-12-093 | 296-21-170 | REP | 93-16-072 | 296-21A-090 | REP-P | 93-11-095 |
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| 296-17-911 | AMD | 93-18-083 | 296-21-180 | REP | 93-16-072 | 296-21A-095 | REP-P | 93-11-095 |
| 296-17-917 | AMD-P | 93-15-102 | 296-21-190 | REP-P | 93-11-095 | 296-21A-095 | REP | 93-16-072 |
| 296-17-917 | AMD | 93-18-083 | 296-21-190 | REP | 93-16-072 | 296-21A-125 | REP-P | 93-11-095 |
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| 296-20-010 | AMD | 93-16-072 | 296-21-230 | REP | 93-11-095 | 296-22-010 | REP-P | 93-11-095 |
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| 296-20-01002 | AMD | 93-16-072 | 296-21-240 | NEW-P | 93-11-095 | 296-22-016 | REP-P | 93-11-095 |
| 296-20-015 | AMD-P | 93-11-095 | 296-21-240 | NEW | 93-16-072 | 296-22-016 | REP | 93-16-072 |
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| 296-20-01501 | AMD-P | 93-11-095 | 296-21-250 | NEW | 93-16-072 | 296-22-017 | REP | 93-16-072 |
| 296-20-01501 | AMD | 93-16-072 | 296-21-260 | NEW-P | 93-11-095 | 296-22-01701 | REP-P | 93-11-095 |
| 296-20-020 | AMD-P | 93-11-095 | 296-21-260 | NEW | 93-16-072 | 296-22-01701 | REP | 93-16-072 |
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| 296-20-030 | AMD-P | 93-11-095 | 296-21-280 | NEW | 93-16-072 | 296-22-021 | REP-P | 93-11-095 |
| 296-20-030 | AMD | 93-16-072 | 296-21-290 | NEW-P | 93-11-095 | 296-22-021 | REP | 93-16-072 |
| 296-20-03001 | AMD-P | 93-11-095 | 296-21-290 | NEW | 93-16-072 | 296-22-022 | REP-P | 93-11-095 |
| 296-20-03001 | AMD | 93-16-072 | 296-21-300 | NEW-P | 93-11-095 | 296-22-022 | REP | 93-16-072 |
| 296-20-035 | AMD-P | 93-11-095 | 296-21-300 | NEW | 93-16-072 | 296-22-023 | REP-P | 93-11-095 |
| 296-20-035 | AMD | 93-16-072 | 296-21-310 | NEW-P | 93-11-095 | 296-22-023 | REP | 93-16-072 |
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| 296-20-06101 | AMD | 93-16-072 | 296-21A-010 | REP-P | 93-11-095 | 296-22-025 | REP | 93-16-072 |
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| 296-20-110 | AMD | 93-16-072 | 296-21A-014 | REP-P | 93-11-095 | 296-22-030 | REP | 93-16-072 |
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| 296-20-1102 | AMD | 93-16-072 | 296-21A-014 | REP | 93-16-072 | 296-22-031 | REP | 93-16-072 |
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| 296-20-1103 | AMD | 93-16-072 | 296-21A-01401 | REP | 93-16-072 | 296-22-035 | REP-P | 93-11-095 |
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| 296-20-125 | AMD | 93-16-072 | 296-21A-040 | REP | 93-16-072 | 296-22-038 | REP-P | 93-11-095 |
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| 296-20-12501 | AMD | 93-16-072 | 296-21A-045 | REP | 93-16-072 | 296-22-039 | REP-P | 93-11-095 |
| 296-20-12502 | REP-P | 93-11-095 | 296-21A-046 | REP-P | 93-11-095 | 296-22-039 | REP | 93-16-072 |
| 296-20-12502 | REP | 93-16-072 | 296-21A-046 | REP | 93-16-072 | 296-22-040 | REP-P | 93-11-095 |
| 296-20-132 | AMD-P | 93-11-095 | 296-21A-047 | REP-P | 93-11-095 | 296-22-040 | REP | 93-16-072 |
| 296-20-132 | AMD | 93-16-072 | 296-21A-047 | REP | 93-16-072 | 296-22-042 | REP-P | 93-11-095 |
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| 296-20-135 | AMD | 93-16-072 | 296-21A-050 | REP | 93-16-072 | 296-22-051 | REP-P | 93-11-095 |
| 296-20-135 | AMD-P | 93-21-073 | 296-21A-0501 | REP-P | 93-11-095 | 296-22-051 | REP | 93-16-072 |
| 296-20-170 | AMD-P | 93-11-095 | 296-21A-0501 | REP | 93-16-072 | 296-22-052 | REP-P | 93-11-095 |
| 296-20-170 | AMD | 93-16-072 | 296-21A-0502 | REP-P | 93-11-095 | 296-22-052 | REP | 93-16-072 |
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| 296-20-17002 | AMD | 93-16-072 | 296-21A-057 | REP-P | 93-11-095 | 296-22-053 | REP | 93-16-072 |
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| 296-23-120 | REP-P | 93-11-095 | 296-23-235 | NEW-P | 93-11-095 | 296-23-610 | REP | 93-16-072 |
| 296-23-120 | REP | 93-16-072 | 296-23-235 | NEW | 93-16-072 | 296-23-615 | REP-P | 93-11-095 |
| 296-23-125 | REP-P | 93-11-095 | 296-23-240 | NEW-P | 93-11-095 | 296-23-615 | REP | 93-16-072 |
| 296-23-125 | REP | 93-16-072 | 296-23-240 | NEW | 93-16-072 | 296-23-620 | REP-P | 93-11-095 |
| 296-23-130 | REP-P | 93-11-095 | 296-23-245 | NEW-P | 93-11-095 | 296-23-620 | REP | 93-16-072 |
| 296-23-130 | REP | 93-16-072 | 296-23-245 | NEW | 93-16-072 | 296-23-710 | REP-P | 93-11-095 |
| 296-23-135 | NEW-P | 93-11-095 | 296-23-250 | NEW-P | 93-11-095 | 296-23-710 | REP | 93-16-072 |
| 296-23-135 | NEW | 93-16-072 | 296-23-250 | NEW | 93-16-072 | 296-23-715 | REP-P | 93-11-095 |
| 296-23-140 | NEW-P | 93-11-095 | 296-23-255 | NEW-P | 93-11-095 | 296-23-715 | REP | 93-16-072 |
| 296-23-140 | NEW | 93-16-072 | 296-23-255 | NEW | 93-16-072 | 296-23-720 | REP-P | 93-11-095 |
| 296-23-145 | NEW-P | 93-11-095 | 296-23-260 | NEW-P | 93-11-095 | 296-23-720 | REP | 93-16-072 |
| 296-23-145 | NEW | 93-16-072 | 296-23-260 | NEW | 93-16-072 | 296-23-725 | REP-P | 93-11-095 |
| 296-23-150 | NEW-P | 93-11-095 | 296-23-265 | NEW-P | 93-11-095 | 296-23-725 | REP | 93-16-072 |
| 296-23-150 | NEW | 93-16-072 | 296-23-265 | NEW | 93-16-072 | 296-23-730 | REP-P | 93-11-095 |
| 296-23-155 | NEW-P | 93-11-095 | 296-23-270 | NEW-P | 93-11-095 | 296-23-730 | REP | 93-16-072 |
| 296-23-155 | NEW | 93-16-072 | 296-23-270 | NEW | 93-16-072 | 296-23-810 | REP-P | 93-11-095 |
| 296-23-160 | NEW-P | 93-11-095 | 296-23-412 | REP-P | 93-11-095 | 296-23-810 | REP | 93-16-072 |
| 296-23-160 | NEW | 93-16-072 | 296-23-412 | REP | 93-16-072 | 296-23-811 | REP-P | 93-11-095 |
| 296-23-165 | NEW-P | 93-11-095 | 296-23-421 | REP-P | 93-11-095 | 296-23-811 | REP | 93-16-072 |
| 296-23-165 | NEW | 93-16-072 | 296-23-421 | REP | 93-16-072 | 296-23-900 | REP-P | 93-11-095 |
| 296-23-170 | NEW-P | 93-11-095 | 296-23-430 | REP-P | 93-11-095 | 296-23-900 | REP | 93-16-072 |
| 296-23-170 | NEW | 93-16-072 | 296-23-430 | REP | 93-16-072 | 296-23-910 | REP-P | 93-11-095 |
| 296-23-175 | NEW-P | 93-11-095 | 296-23-440 | REP-P | 93-11-095 | 296-23-910 | REP | 93-16-072 |
| 296-23-175 | NEW | 93-16-072 | 296-23-440 | REP | 93-16-072 | 296-23-950 | REP-P | 93-11-095 |
| 296-23-180 | NEW-P | 93-11-095 | 296-23-450 | REP-P | 93-11-095 | 296-23-950 | REP | 93-16-072 |
| 296-23-180 | NEW | 93-16-072 | 296-23-450 | REP | 93-16-072 | 296-23-960 | REP-P | 93-11-095 |
| 296-23-185 | NEW-P | 93-11-095 | 296-23-460 | REP-P | 93-11-095 | 296-23-960 | REP | 93-16-072 |
| 296-23-185 | NEW | 93-16-072 | 296-23-460 | REP | 93-16-072 | 296-23-970 | REP-P | 93-11-095 |
| 296-23-190 | NEW-P | 93-11-095 | 296-23-470 | REP-P | 93-11-095 | 296-23-970 | REP | 93-16-072 |
| 296-23-190 | NEW | 93-16-072 | 296-23-470 | REP | 93-16-072 | 296-23-980 | REP-P | 93-11-095 |
| 296-23-195 | NEW-P | 93-11-095 | 296-23-480 | REP-P | 93-11-095 | 296-23-980 | REP | 93-16-072 |
| 296-23-195 | NEW | 93-16-072 | 296-23-480 | REP | 93-16-072 | 296-23-990 | REP-P | 93-11-095 |
| 296-23-200 | REP-P | 93-11-095 | 296-23-485 | REP-P | 93-11-095 | 296-23-990 | REP | 93-16-072 |
| 296-23-200 | REP | 93-16-072 | 296-23-485 | REP | 93-16-072 | 296-23A-100 | AMD-P | 93-11-095 |
| 296-23-201 | REP-P | 93-11-095 | 296-23-490 | REP-P | 93-11-095 | 296-23A-100 | AMD | 93-16-072 |
| 296-23-201 | REP | 93-16-072 | 296-23-490 | REP | 93-16-072 | 296-23A-110 | AMD-P | 93-11-095 |
| 296-23-20101 | REP-P | 93-11-095 | 296-23-495 | REP-P | 93-11-095 | 296-23A-110 | AMD | 93-16-072 |
| 296-23-20101 | REP | 93-16-072 | 296-23-495 | REP | 93-16-072 | 296-23A-115 | AMD-P | 93-11-095 |
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| 296-23-20102 | REP | 93-16-072 | 296-23-500 | REP | 93-16-072 | 296-23A-130 | AMD-P | 93-11-095 |
| 296-23-204 | REP-P | 93-11-095 | 296-23-50001 | REP-P | 93-11-095 | 296-23A-130 | AMD | 93-16-072 |
| 296-23-204 | REP | 93-16-072 | 296-23-50001 | REP | 93-16-072 | 296-23A-150 | AMD-P | 93-11-095 |
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| 296-23-210 | NEW-P | 93-11-095 | 296-23-50004 | REP-P | 93-11-095 | 296-23A-205 | AMD | 93-16-072 |
| 296-23-210 | NEW | 93-16-072 | 296-23-50004 | REP | 93-16-072 | 296-23A-230 | AMD-P | 93-11-095 |
| 296-23-212 | REP-P | 93-11-095 | 296-23-50005 | REP-P | 93-11-095 | 296-23A-230 | AMD | 93-16-072 |
| 296-23-212 | REP | 93-16-072 | 296-23-50005 | REP | 93-16-072 | 296-23A-235 | AMD-P | 93-11-095 |
| 296-23-215 | NEW-P | 93-11-095 | 296-23-50006 | REP-P | 93-11-095 | 296-23A-235 | AMD | 93-16-072 |
| 296-23-215 | NEW | 93-16-072 | 296-23-50006 | REP | 93-16-072 | 296-23A-240 | REP-P | 93-11-095 |
| 296-23-216 | REP-P | 93-11-095 | 296-23-50007 | REP-P | 93-11-095 | 296-23A-240 | REP | 93-16-072 |
| 296-23-216 | REP | 93-16-072 | 296-23-50007 | REP | 93-16-072 | 296-23A-242 | REP-P | 93-11-095 |
| 296-23-220 | NEW-P | 93-11-095 | 296-23-50008 | REP-P | 93-11-095 | 296-23A-242 | REP | 93-16-072 |
| 296-23-220 | NEW | 93-16-072 | 296-23-50008 | REP | 93-16-072 | 296-23A-244 | REP-P | 93-11-095 |
| 296-23-220 | AMD-P | 93-21-073 | 296-23-50009 | REP-P | 93-11-095 | 296-23A-244 | REP | 93-16-072 |
| 296-23-221 | REP-P | 93-11-095 | 296-23-50009 | REP | 93-16-072 | 296-23A-246 | REP-P | 93-11-095 |
| 296-23-221 | REP | 93-16-072 | 296-23-50010 | REP-P | 93-11-095 | 296-23A-246 | REP | 93-16-072 |
| 296-23-224 | REP-P | 93-11-095 | 296-23-50010 | REP | 93-16-072 | 296-23A-248 | REP-P | 93-11-095 |
| 296-23-224 | REP | 93-16-072 | 296-23-50011 | REP-P | 93-11-095 | 296-23A-248 | REP | 93-16-072 |
| 296-23-225 | NEW-P | 93-11-095 | 296-23-50011 | REP | 93-16-072 | 296-23A-248 | REP | 93-16-072 |
| 296-23-225 | NEW | 93-16-072 | 296-23-50012 | REP-P | 93-11-095 | 296-23A-250 | REP-P | 93-11-095 |
| 296-23-228 | REP-P | 93-11-095 | 296-23-50012 | REP | 93-16-072 | 296-23A-250 | REP | 93-16-072 |
| 296-23-228 | REP | 93-16-072 | 296-23-50013 | REP-P | 93-11-095 | 296-23A-252 | REP-P | 93-11-095 |
| 296-23-230 | NEW-P | 93-11-095 | 296-23-50013 | REP | 93-16-072 | 296-23A-252 | REP | 93-16-072 |
| 296-23-230 | NEW | 93-16-072 | 296-23-50014 | REP-P | 93-11-095 | 296-23A-254 | REP-P | 93-11-095 |
| 296-23-230 | AMD-P | 93-21-073 | 296-23-50014 | REP | 93-16-072 | 296-23A-254 | REP | 93-16-072 |
| 296-23-231 | AMD-P | 93-21-073 | 296-23-50015 | REP-P | 93-11-095 | 296-23A-256 | REP-P | 93-11-095 |
| 296-23-231 | REP-P | 93-11-095 | 296-23-50015 | REP | 93-16-072 | 296-23A-256 | REP | 93-16-072 |
| 296-23-231 | REP | 93-16-072 | 296-23-50016 | REP-P | 93-11-095 | 296-23A-258 | REP-P | 93-11-095 |
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| 296-23A-260 | REP | 93-16-072 | 296-31-090 | AMD-E | 93-20-069 | 296-62-07423 | NEW | 93-07-044 |
| 296-23A-262 | REP-P | 93-11-095 | 296-31-090 | AMD-P | 93-21-072 | 296-62-07423 | AMD-P | 93-16-108 |
| 296-23A-262 | REP | 93-16-072 | 296-31-095 | REP-E | 93-20-069 | 296-62-07423 | AMD | 93-21-075 |
| 296-23A-264 | REP-P | 93-11-095 | 296-31-095 | REP-P | 93-21-072 | 296-62-07425 | NEW-P | 93-02-057 |
| 296-23A-264 | REP | 93-16-072 | 296-46-090 | AMD | 93-06-072 | 296-62-07425 | NEW | 93-07-044 |
| 296-23A-266 | REP-P | 93-11-095 | 296-46-140 | AMD | 93-06-072 | 296-62-07425 | AMD-P | 93-16-108 |
| 296-23A-266 | REP | 93-16-072 | 296-46-150 | AMD | 93-06-072 | 296-62-07425 | AMD | 93-21-075 |
| 296-23A-268 | REP-P | 93-11-095 | 296-46-21008 | AMD | 93-06-072 | 296-62-07427 | NEW-P | 93-02-057 |
| 296-23A-268 | REP | 93-16-072 | 296-46-21052 | AMD | 93-06-072 | 296-62-07427 | NEW | 93-07-044 |
| 296-23A-300 | AMD-P | 93-11-095 | 296-46-220 | AMD | 93-06-072 | 296-62-07429 | NEW-P | 93-02-057 |
| 296-23A-300 | AMD | 93-16-072 | 296-46-225 | NEW | 93-06-072 | 296-62-07429 | NEW | 93-07-044 |
| 296-23A-310 | AMD-P | 93-11-095 | 296-46-23040 | AMD | 93-06-072 | 296-62-07431 | NEW-P | 93-02-057 |
| 296-23A-310 | AMD | 93-16-072 | 296-46-23062 | AMD | 93-06-072 | 296-62-07431 | NEW | 93-07-044 |
| 296-23A-315 | AMD-P | 93-11-095 | 296-46-316 | AMD | 93-06-072 | 296-62-07433 | NEW-P | 93-02-057 |
| 296-23A-315 | AMD | 93-16-072 | 296-46-360 | AMD | 93-06-072 | 296-62-07433 | NEW | 93-07-044 |
| 296-23A-320 | AMD-P | 93-11-095 | 296-46-365 | NEW | 93-06-072 | 296-62-07441 | NEW-P | 93-02-057 |
| 296-23A-320 | AMD | 93-16-072 | 296-46-422 | AMD | 93-06-072 | 296-62-07441 | NEW | 93-07-044 |
| 296-23A-325 | REP-P | 93-11-095 | 296-46-495 | AMD | 93-06-072 | 296-62-07441 | AMD-P | 93-16-108 |
| 296-23A-325 | REP | 93-16-072 | 296-46-514 | AMD | 93-06-072 | 296-62-07441 | AMD | 93-21-075 |
| 296-23A-330 | REP-P | 93-11-095 | 296-46-517 | REP | 93-06-072 | 296-62-07443 | NEW-P | 93-02-057 |
| 296-23A-330 | REP | 93-16-072 | 296-46-55001 | REP | 93-06-072 | 296-62-07443 | NEW | 93-07-044 |
| 296-23A-335 | REP-P | 93-11-095 | 296-46-670 | NEW-P | 93-19-140 | 296-62-07445 | NEW-P | 93-02-057 |
| 296-23A-335 | REP | 93-16-072 | 296-46-670 | NEW | 94-01-005 | 296-62-07445 | NEW | 93-07-044 |
| 296-23A-340 | REP-P | 93-11-095 | 296-46-680 | AMD | 93-06-072 | 296-62-07445 | AMD-P | 93-16-108 |
| 296-23A-340 | REP | 93-16-072 | 296-46-700 | AMD | 93-06-072 | 296-62-07445 | AMD | 93-21-075 |
| 296-23A-345 | REP-P | 93-11-095 | 296-46-702 | NEW | 93-06-072 | 296-62-07447 | NEW-P | 93-02-057 |
| 296-23A-345 | REP | 93-16-072 | 296-46-710 | NEW | 93-06-072 | 296-62-07447 | NEW | 93-07-044 |
| 296-23A-350 | REP-P | 93-11-095 | 296-46-935 | NEW | 93-03-048 | 296-62-07447 | AMD-P | 93-16-108 |
| 296-23A-350 | REP | 93-16-072 | 296-47 | REP-P | 93-19-140 | 296-62-07447 | AMD | 93-21-075 |
| 296-23A-355 | REP-P | 93-11-095 | 296-47 | REP | 94-01-005 | 296-62-07449 | NEW-P | 93-02-057 |
| 296-23A-355 | REP | 93-16-072 | 296-56 | AMD-C | 93-15-031 | 296-62-07449 | NEW | 93-07-044 |
| 296-23A-360 | REP-P | 93-11-095 | 296-56-60001 | AMD-P | 93-02-057 | 296-62-07449 | AMD-P | 93-16-108 |
| 296-23A-360 | REP | 93-16-072 | 296-56-60001 | AMD | 93-07-044 | 296-62-07449 | AMD | 93-21-075 |
| 296-23A-400 | AMD-P | 93-11-095 | 296-56-60005 | AMD-P | 93-10-101 | 296-62-07451 | NEW | 93-02-057 |
| 296-23A-400 | AMD | 93-16-072 | 296-56-60005 | AMD-W | 93-19-141 | 296-62-07451 | NEW | 93-07-044 |
| 296-23A-400 | AMD-P | 93-21-073 | 296-56-60235 | AMD-P | 93-10-101 | 296-62-07521 | PREP | 93-17-109 |
| 296-23A-410 | REP-P | 93-11-095 | 296-56-60235 | AMD-W | 93-19-141 | 296-62-076 | NEW | 93-04-111 |
| 296-23A-410 | REP | 93-16-072 | 296-62 | AMD-C | 93-15-031 | 296-62-07601 | NEW | 93-04-111 |
| 296-23A-415 | REP-P | 93-11-095 | 296-62-07105 | AMD-P | 93-10-101 | 296-62-07603 | NEW | 93-04-111 |
| 296-23A-415 | REP | 93-16-072 | 296-62-07105 | AMD | 93-19-142 | 296-62-07605 | NEW | 93-04-111 |
| 296-23A-420 | REP-P | 93-11-095 | 296-62-074 | NEW-P | 93-02-057 | 296-62-07607 | NEW | 93-04-111 |
| 296-23A-420 | REP | 93-16-072 | 296-62-074 | NEW | 93-07-044 | 296-62-07609 | NEW | 93-04-111 |
| 296-23A-425 | REP-P | 93-11-095 | 296-62-07401 | NEW-P | 93-02-057 | 296-62-07611 | NEW | 93-04-111 |
| 296-23A-425 | REP | 93-16-072 | 296-62-07401 | NEW | 93-07-044 | 296-62-07613 | NEW | 93-04-111 |
| 296-24 | AMD-C | 93-15-031 | 296-62-07403 | NEW-P | 93-02-057 | 296-62-07615 | NEW | 93-04-111 |
| 296-24 | AMD-C | 94-01-186 | 296-62-07403 | NEW | 93-07-044 | 296-62-07617 | NEW | 93-04-111 |
| 296-24-11001 | AMD-P | 93-21-071 | 296-62-07403 | AMD-P | 93-16-108 | 296-62-07619 | NEW | 93-04-111 |
| 296-24-11003 | AMD-P | 93-10-101 | 296-62-07403 | AMD | 93-21-075 | 296-62-07621 | NEW | 93-04-111 |
| 296-24-11003 | AMD | 93-19-142 | 296-62-07405 | NEW-P | 93-02-057 | 296-62-07623 | NEW | 93-04-111 |
| 296-24-12001 | AMD-P | 93-21-071 | 296-62-07405 | NEW | 93-07-044 | 296-62-07625 | NEW | 93-04-111 |
| 296-24-14011 | AMD-P | 93-21-071 | 296-62-07407 | NEW-P | 93-02-057 | 296-62-07627 | NEW | 93-04-111 |
| 296-24-33003 | AMD-P | 93-21-071 | 296-62-07407 | NEW | 93-07-044 | 296-62-07629 | NEW | 93-04-111 |
| 296-24-58503 | AMD-P | 93-21-071 | 296-62-07409 | NEW-P | 93-02-057 | 296-62-07631 | NEW | 93-04-111 |
| 296-24-70007 | AMD-P | 93-10-101 | 296-62-07409 | NEW | 93-07-044 | 296-62-07633 | NEW | 93-04-111 |
| 296-24-70007 | AMD-W | 93-19-141 | 296-62-07411 | NEW-P | 93-02-057 | 296-62-07635 | NEW | 93-04-111 |
| 296-24-73501 | AMD-P | 93-21-071 | 296-62-07411 | NEW | 93-07-044 | 296-62-07637 | NEW | 93-04-111 |
| 296-30-010 | AMD-P | 93-21-072 | 296-62-07411 | AMD-P | 93-16-108 | 296-62-07639 | NEW | 93-04-111 |
| 296-30-020 | AMD-P | 93-21-072 | 296-62-07411 | AMD | 93-21-075 | 296-62-07654 | NEW | 93-04-111 |
| 296-30-050 | AMD-P | 93-21-072 | 296-62-07413 | NEW-P | 93-02-057 | 296-62-07656 | NEW | 93-04-111 |
| 296-30-060 | AMD-P | 93-21-072 | 296-62-07413 | NEW | 93-07-044 | 296-62-07658 | NEW | 93-04-111 |
| 296-30-080 | AMD-E | 93-20-069 | 296-62-07413 | AMD-P | 93-16-108 | 296-62-07660 | NEW | 93-04-111 |
| 296-30-080 | AMD-P | 93-21-072 | 296-62-07413 | AMD | 93-21-075 | 296-62-07662 | NEW | 93-04-111 |
| 296-30-081 | AMD-E | 93-20-069 | 296-62-07415 | NEW-P | 93-02-057 | 296-62-07664 | NEW | 93-04-111 |
| 296-30-081 | AMD-P | 93-21-072 | 296-62-07415 | NEW | 93-07-044 | 296-62-07666 | NEW | 93-04-111 |
| 296-30-130 | AMD-P | 93-21-072 | 296-62-07417 | NEW-P | 93-02-057 | 296-62-07668 | NEW | 93-04-111 |
| 296-31-020 | AMD-E | 93-20-069 | 296-62-07417 | NEW | 93-07-044 | 296-62-07670 | NEW | 93-04-111 |
| 296-31-020 | AMD-P | 93-21-072 | 296-62-07417 | AMD-P | 93-16-108 | 296-62-07672 | NEW | 93-04-111 |
| 296-31-060 | AMD-E | 93-20-069 | 296-62-07417 | AMD | 93-21-075 | 296-62-07711 | AMD-P | 93-10-101 |
| 296-31-060 | AMD-P | 93-21-072 | 296-62-07419 | NEW-P | 93-02-057 | 296-62-07711 | AMD | 93-19-142 |
| 296-31-065 | AMD-E | 93-20-069 | 296-62-07419 | NEW | 93-07-044 | 296-62-12000 | NEW-P | 93-22-108 |
| 296-31-065 | AMD-P | 93-21-072 | 296-62-07421 | NEW-P | 93-02-057 | 296-62-12001 | NEW-P | 93-22-108 |
| 296-31-080 | AMD-E | 93-20-069 | 296-62-07421 | NEW | 93-07-044 | 296-62-12003 | NEW-P | 93-22-108 |

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| 296-62-12007 | NEW-P | 93-22-108 | 296-116-082 | AMD-E | 93-06-012 | 296-155-17607 | NEW-P | 93-17-106 |
| 296-62-12009 | NEW-P | 93-22-108 | 296-116-082 | AMD-P | 93-06-052 | 296-155-17607 | NEW | 93-22-054 |
| 296-62-12011 | NEW-P | 93-22-108 | 296-116-082 | AMD | 93-09-016 | 296-155-17609 | NEW-P | 93-17-106 |
| 296-62-12013 | NEW-P | 93-22-108 | 296-116-110 | AMD-P | 93-04-109 | 296-155-17609 | NEW | 93-22-054 |
| 296-62-12015 | NEW-P | 93-22-108 | 296-116-110 | AMD | 93-07-076 | 296-155-17611 | NEW-P | 93-17-106 |
| 296-62-12017 | NEW-P | 93-22-108 | 296-116-185 | AMD-C | 93-03-001 | 296-155-17611 | NEW | 93-22-054 |
| 296-62-12019 | NEW-P | 93-22-108 | 296-116-185 | AMD | 93-03-080 | 296-155-17613 | NEW-P | 93-17-106 |
| 296-62-12021 | NEW-P | 93-22-108 | 296-116-185 | AMD-P | 93-10-102 | 296-155-17613 | NEW | 93-22-054 |
| 296-62-12023 | NEW-P | 93-22-108 | 296-116-185 | AMD | 93-13-055 | 296-155-17615 | NEW-P | 93-17-106 |
| 296-62-14501 | AMD-P | 93-10-101 | 296-116-185 | AMD-E | 93-18-089 | 296-155-17615 | NEW | 93-22-054 |
| 296-62-14501 | AMD-W | 93-19-141 | 296-116-185 | AMD-P | 94-01-153 | 296-155-17617 | NEW-P | 93-17-106 |
| 296-62-14503 | AMD-P | 93-10-101 | 296-116-185 | AMD-E | 94-01-154 | 296-155-17617 | NEW | 93-22-054 |
| 296-62-14503 | AMD-W | 93-19-141 | 296-116-300 | AMD-P | 93-08-027 | 296-155-17619 | NEW-P | 93-17-106 |
| 296-62-14505 | AMD-P | 93-10-101 | 296-116-300 | AMD-C | 93-12-009 | 296-155-17619 | PREP | 93-17-109 |
| 296-62-14505 | AMD-W | 93-19-141 | 296-116-300 | AMD | 93-12-133 | 296-155-17619 | NEW | 93-22-054 |
| 296-62-14507 | AMD-P | 93-10-101 | 296-116-360 | AMD-P | 93-04-110 | 296-155-17621 | NEW-P | 93-17-106 |
| 296-62-14507 | AMD-W | 93-19-141 | 296-116-360 | AMD | 93-07-077 | 296-155-17621 | PREP | 93-17-109 |
| 296-62-14509 | AMD-P | 93-10-101 | 296-125-070 | NEW | 93-04-112 | 296-155-17621 | NEW | 93-22-054 |
| 296-62-14509 | AMD-W | 93-19-141 | 296-127-010 | AMD-P | 93-20-131 | 296-155-17623 | NEW-P | 93-17-106 |
| 296-62-14511 | AMD-P | 93-10-101 | 296-127-010 | AMD | 94-01-100 | 296-155-17623 | PREP | 93-17-109 |
| 296-62-14511 | AMD-W | 93-19-141 | 296-127-040 | AMD-E | 93-16-071 | 296-155-17623 | NEW | 93-22-054 |
| 296-62-14513 | AMD-P | 93-10-101 | 296-127-040 | AMD-P | 93-20-131 | 296-155-17625 | NEW-P | 93-17-106 |
| 296-62-14513 | AMD-W | 93-19-141 | 296-127-040 | AMD-E | 93-24-048 | 296-155-17625 | NEW | 93-22-054 |
| 296-62-14515 | AMD-P | 93-10-101 | 296-127-040 | AMD | 94-01-100 | 296-155-17627 | NEW-P | 93-17-106 |
| 296-62-14515 | AMD-W | 93-19-141 | 296-127-045 | AMD-E | 93-16-071 | 296-155-17627 | NEW | 93-22-054 |
| 296-62-14517 | AMD-P | 93-10-101 | 296-127-045 | AMD-P | 93-20-131 | 296-155-17629 | NEW-P | 93-17-106 |
| 296-62-14517 | AMD-W | 93-19-141 | 296-127-045 | AMD-E | 93-24-048 | 296-155-17629 | NEW | 93-22-054 |
| 296-62-14519 | AMD-P | 93-10-101 | 296-127-045 | AMD | 94-01-100 | 296-155-17631 | NEW-P | 93-17-106 |
| 296-62-14519 | AMD-W | 93-19-141 | 296-155 | AMD-C | 93-15-031 | 296-155-17631 | NEW | 93-22-054 |
| 296-62-14521 | AMD-P | 93-10-101 | 296-155-012 | AMD-P | 93-10-101 | 296-155-17635 | NEW-P | 93-17-106 |
| 296-62-14521 | AMD-W | 93-19-141 | 296-155-012 | AMD-W | 93-19-141 | 296-155-17635 | NEW | 93-22-054 |
| 296-62-14523 | AMD-P | 93-10-101 | 296-155-173 | NEW | 93-04-111 | 296-155-17650 | NEW-P | 93-17-106 |
| 296-62-14523 | AMD-W | 93-19-141 | 296-155-17301 | NEW | 93-04-111 | 296-155-17650 | NEW | 93-22-054 |
| 296-62-14525 | AMD-P | 93-10-101 | 296-155-17303 | NEW | 93-04-111 | 296-155-17652 | NEW-P | 93-17-106 |
| 296-62-14525 | AMD-W | 93-19-141 | 296-155-17305 | NEW | 93-04-111 | 296-155-17652 | PREP | 93-17-109 |
| 296-62-14527 | AMD-P | 93-10-101 | 296-155-17307 | NEW | 93-04-111 | 296-155-17652 | NEW | 93-22-054 |
| 296-62-14527 | AMD-W | 93-19-141 | 296-155-17309 | NEW | 93-04-111 | 296-155-17654 | NEW-P | 93-17-106 |
| 296-62-14529 | AMD-P | 93-10-101 | 296-155-17311 | NEW | 93-04-111 | 296-155-17654 | PREP | 93-17-109 |
| 296-62-14529 | AMD-W | 93-19-141 | 296-155-17313 | NEW | 93-04-111 | 296-155-17654 | NEW | 93-22-054 |
| 296-62-14540 | NEW-P | 93-10-101 | 296-155-17315 | NEW | 93-04-111 | 296-155-17656 | NEW-P | 93-17-106 |
| 296-62-14540 | AMD-W | 93-19-141 | 296-155-17317 | NEW | 93-04-111 | 296-155-17656 | NEW | 93-22-054 |
| 296-62-14542 | NEW-P | 93-10-101 | 296-155-17319 | NEW | 93-04-111 | 296-155-203 | AMD-P | 93-10-101 |
| 296-62-14542 | AMD-W | 93-19-141 | 296-155-17321 | NEW | 93-04-111 | 296-155-203 | AMD-W | 93-19-141 |
| 296-62-14545 | NEW-P | 93-10-101 | 296-155-17323 | NEW | 93-04-111 | 296-155-20301 | AMD-P | 93-10-101 |
| 296-62-14545 | AMD-W | 93-19-141 | 296-155-17325 | NEW | 93-04-111 | 296-155-20301 | AMD-W | 93-19-141 |
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| 296-62-14547 | AMD-W | 93-19-141 | 296-155-17329 | NEW | 93-04-111 | 296-155-20307 | AMD-W | 93-19-141 |
| 296-62-14549 | NEW-P | 93-10-101 | 296-155-17331 | NEW | 93-04-111 | 296-155-24510 | AMD-P | 93-10-101 |
| 296-62-14549 | AMD-W | 93-19-141 | 296-155-17333 | NEW | 93-04-111 | 296-155-24510 | AMD | 93-19-142 |
| 296-62-14551 | NEW-P | 93-10-101 | 296-155-17335 | NEW | 93-04-111 | 296-155-300 | AMD-P | 93-10-101 |
| 296-62-14551 | AMD-W | 93-19-141 | 296-155-17337 | NEW | 93-04-111 | 296-155-300 | AMD | 93-19-142 |
| 296-62-14553 | NEW-P | 93-10-101 | 296-155-17339 | NEW | 93-04-111 | 296-155-305 | AMD-P | 93-10-101 |
| 296-62-14553 | AMD-W | 93-19-141 | 296-155-17341 | NEW | 93-04-111 | 296-155-305 | AMD | 93-19-142 |
| 296-62-3090 | AMD-P | 93-10-101 | 296-155-17343 | NEW | 93-04-111 | 296-155-310 | AMD-P | 93-10-101 |
| 296-62-3090 | AMD | 93-19-142 | 296-155-17345 | NEW | 93-04-111 | 296-155-310 | AMD | 93-19-142 |
| 296-67-005 | AMD-P | 93-16-108 | 296-155-17347 | NEW | 93-04-111 | 296-155-375 | AMD | 93-04-111 |
| 296-67-005 | AMD | 93-21-075 | 296-155-17349 | NEW | 93-04-111 | 296-155-444 | AMD-P | 93-10-101 |
| 296-67-285 | AMD-P | 93-16-108 | 296-155-17351 | NEW | 93-04-111 | 296-155-444 | AMD | 93-19-142 |
| 296-67-285 | AMD | 93-21-075 | 296-155-17353 | NEW | 93-04-111 | 296-155-447 | AMD-P | 93-10-101 |
| 296-67-291 | AMD-P | 93-16-108 | 296-155-17355 | NEW | 93-04-111 | 296-155-447 | AMD | 93-19-142 |
| 296-67-291 | AMD | 93-21-075 | 296-155-17357 | NEW | 93-04-111 | 296-155-449 | AMD-P | 93-10-101 |
| 296-104-010 | AMD-P | 93-08-073 | 296-155-17359 | NEW | 93-04-111 | 296-155-449 | AMD | 93-19-142 |
| 296-104-010 | AMD | 93-12-014 | 296-155-174 | NEW-P | 93-02-057 | 296-155-459 | AMD-P | 93-10-101 |
| 296-104-055 | AMD-P | 93-08-073 | 296-155-174 | NEW | 93-07-044 | 296-155-459 | AMD | 93-19-142 |
| 296-104-055 | AMD | 93-12-014 | 296-155-174 | AMD-P | 93-16-108 | 296-155-462 | AMD-P | 93-10-101 |
| 296-104-200 | AMD-P | 93-08-073 | 296-155-176 | NEW-P | 93-21-075 | 296-155-462 | AMD | 93-19-142 |
| 296-104-200 | AMD | 93-12-014 | 296-155-176 | NEW-P | 93-17-106 | 296-200-110 | NEW-E | 93-17-057 |
| 296-104-500 | AMD-P | 93-08-073 | 296-155-176 | NEW | 93-22-054 | 296-200-110 | NEW-P | 93-18-106 |
| 296-104-500 | AMD | 93-12-014 | 296-155-17603 | NEW-P | 93-17-106 | 296-200-110 | NEW | 93-23-043 |
| 296-104-501 | AMD-P | 93-08-073 | 296-155-17605 | NEW | 93-22-054 | 296-200-111 | NEW-E | 93-17-057 |
| 296-104-501 | AMD | 93-12-014 | 296-155-17605 | NEW-P | 93-17-106 | 296-200-111 | NEW-P | 93-18-106 |
| 296-104-700 | AMD-P | 93-08-073 | 296-155-17605 | PREP | 93-17-109 | 296-200-111 | NEW | 93-23-043 |

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| 296-200-112 | NEW-E | 93-17-057 | 296-306-06801 | NEW-W | 93-10-041 | 296-401-175 | AMD-P | 93-19-140 |
| 296-200-112 | NEW-P | 93-18-106 | 296-306-06803 | NEW-W | 93-10-041 | 304-12-030 | AMD-P | 93-22-043 |
| 296-200-112 | NEW | 93-23-043 | 296-306-06805 | NEW-W | 93-10-041 | 308-13-020 | AMD-P | 93-12-105 |
| 296-304 | AMD-C | 93-15-031 | 296-306-070 | AMD | 93-07-012 | 308-13-020 | AMD | 93-16-009 |
| 296-304-01001 | AMD-P | 93-10-101 | 296-306-070 | REP-P | 93-21-071 | 308-13-022 | REP-P | 93-12-105 |
| 296-304-01001 | AMD-W | 93-19-141 | 296-306-075 | REP-P | 93-21-071 | 308-13-022 | REP | 93-16-009 |
| 296-304-020 | AMD | 93-04-111 | 296-306-080 | REP-P | 93-21-071 | 308-13-024 | NEW-P | 93-12-105 |
| 296-304-02003 | AMD-P | 93-10-101 | 296-306-081 | NEW-W | 93-10-041 | 308-13-024 | NEW | 93-16-009 |
| 296-304-02003 | AMD | 93-19-142 | 296-306-08101 | NEW-W | 93-10-041 | 308-13-025 | REP-P | 93-12-105 |
| 296-304-03001 | AMD-P | 93-10-101 | 296-306-08103 | NEW-W | 93-10-041 | 308-13-025 | REP | 93-16-009 |
| 296-304-03001 | AMD | 93-19-142 | 296-306-08105 | NEW-W | 93-10-041 | 308-13-032 | AMD-P | 93-12-105 |
| 296-304-03005 | AMD-P | 93-10-101 | 296-306-082 | NEW-W | 93-10-041 | 308-13-032 | AMD | 93-16-009 |
| 296-304-03005 | AMD | 93-19-142 | 296-306-08201 | NEW-W | 93-10-041 | 308-13-100 | AMD-P | 93-12-105 |
| 296-304-03007 | AMD-P | 93-10-101 | 296-306-083 | NEW-W | 93-10-041 | 308-13-100 | AMD | 93-16-009 |
| 296-304-03007 | AMD | 93-19-142 | 296-306-08301 | NEW-W | 93-10-041 | 308-13-150 | AMD-P | 93-22-068 |
| 296-304-04001 | AMD-P | 93-10-101 | 296-306-08307 | NEW-W | 93-10-041 | 308-13-150 | AMD-W | 93-24-117 |
| 296-304-04001 | AMD | 93-19-142 | 296-306-084 | NEW | 93-07-012 | 308-13-150 | AMD-P | 94-01-047 |
| 296-304-04005 | AMD-P | 93-10-101 | 296-306-084 | REP-P | 93-21-071 | 308-13-160 | AMD-P | 93-22-068 |
| 296-304-04005 | AMD | 93-19-142 | 296-306-08401 | NEW-W | 93-10-041 | 308-13-160 | AMD-W | 93-24-117 |
| 296-304-09003 | AMD-P | 93-10-101 | 296-306-08403 | NEW-W | 93-10-041 | 308-13-160 | AMD-P | 94-01-047 |
| 296-304-09003 | AMD | 93-19-142 | 296-306-08405 | NEW-W | 93-10-041 | 308-17-150 | AMD-P | 93-07-099 |
| 296-306 | AMD-C | 93-02-031 | 296-306-08407 | NEW-W | 93-10-041 | 308-17-150 | AMD-W | 93-12-040 |
| 296-306 | AMD-C | 94-01-186 | 296-306-08409 | NEW-W | 93-10-041 | 308-17-150 | AMD-P | 93-13-146 |
| 296-306-003 | AMD-P | 93-21-071 | 296-306-085 | REP-P | 93-21-071 | 308-17-150 | AMD | 93-16-060 |
| 296-306-010 | AMD | 93-07-012 | 296-306-090 | REP-P | 93-21-071 | 308-18-150 | AMD-P | 93-07-098 |
| 296-306-010 | AMD-P | 93-21-071 | 296-306-095 | REP-P | 93-21-071 | 308-18-150 | AMD | 93-11-025 |
| 296-306-01001 | NEW-P | 93-02-057 | 296-306-100 | REP-P | 93-21-071 | 308-19-010 | NEW-P | 93-18-100 |
| 296-306-01001 | NEW | 93-07-044 | 296-306-105 | AMD | 93-07-012 | 308-19-010 | NEW | 93-21-053 |
| 296-306-012 | AMD | 93-07-012 | 296-306-110 | AMD-P | 93-21-071 | 308-19-020 | NEW-P | 93-18-100 |
| 296-306-012 | AMD-P | 93-21-071 | 296-306-115 | AMD | 93-07-012 | 308-19-020 | NEW | 93-21-053 |
| 296-306-015 | AMD-P | 93-21-071 | 296-306-115 | AMD-P | 93-21-071 | 308-19-030 | NEW-P | 93-18-100 |
| 296-306-020 | AMD-P | 93-21-071 | 296-306-120 | AMD-P | 93-21-071 | 308-19-030 | NEW | 93-21-053 |
| 296-306-025 | REP-P | 93-21-071 | 296-306-125 | REP-P | 93-21-071 | 308-19-100 | NEW-P | 93-18-100 |
| 296-306-030 | AMD-P | 93-21-071 | 296-306-130 | REP-P | 93-21-071 | 308-19-100 | NEW | 93-21-053 |
| 296-306-035 | AMD | 93-07-012 | 296-306-135 | REP-P | 93-21-071 | 308-19-110 | NEW-P | 93-18-100 |
| 296-306-045 | REP-P | 93-21-071 | 296-306-140 | REP-P | 93-21-071 | 308-19-110 | NEW | 93-21-053 |
| 296-306-050 | REP-P | 93-21-071 | 296-306-145 | AMD | 93-07-012 | 308-19-120 | NEW-P | 93-18-100 |
| 296-306-055 | REP-P | 93-21-071 | 296-306-145 | REP-P | 93-21-071 | 308-19-120 | NEW | 93-21-053 |
| 296-306-057 | AMD-P | 93-21-071 | 296-306-14501 | NEW-W | 93-10-041 | 308-19-130 | NEW-P | 93-18-100 |
| 296-306-060 | AMD | 93-07-012 | 296-306-14503 | NEW-W | 93-10-041 | 308-19-130 | NEW | 93-21-053 |
| 296-306-060 | AMD-P | 93-21-071 | 296-306-14505 | NEW-W | 93-10-041 | 308-19-140 | NEW-P | 93-18-100 |
| 296-306-061 | NEW | 93-07-012 | 296-306-14507 | NEW-W | 93-10-041 | 308-19-140 | NEW | 93-21-053 |
| 296-306-061 | REP-P | 93-21-071 | 296-306-14509 | NEW-W | 93-10-041 | 308-19-150 | NEW-P | 93-18-100 |
| 296-306-06101 | NEW-W | 93-10-041 | 296-306-146 | NEW-W | 93-10-041 | 308-19-150 | NEW | 93-21-053 |
| 296-306-06103 | NEW-W | 93-10-041 | 296-306-147 | NEW-W | 93-10-041 | 308-19-160 | NEW-P | 93-18-100 |
| 296-306-06105 | NEW-W | 93-10-041 | 296-306-148 | NEW-W | 93-10-041 | 308-19-160 | NEW | 93-21-053 |
| 296-306-06107 | NEW-W | 93-10-041 | 296-306-160 | AMD-P | 93-21-071 | 308-19-200 | NEW-P | 93-18-100 |
| 296-306-06109 | NEW-W | 93-10-041 | 296-306-165 | AMD | 93-07-012 | 308-19-200 | NEW | 93-21-053 |
| 296-306-06111 | NEW-W | 93-10-041 | 296-306-165 | AMD-P | 93-21-071 | 308-19-210 | NEW-P | 93-18-100 |
| 296-306-06113 | NEW-W | 93-10-041 | 296-306-175 | AMD-P | 93-21-071 | 308-19-210 | NEW | 93-21-053 |
| 296-306-06115 | NEW-W | 93-10-041 | 296-306-200 | AMD | 93-07-012 | 308-19-220 | NEW-P | 93-18-100 |
| 296-306-06117 | NEW-W | 93-10-041 | 296-306-200 | AMD-P | 93-21-071 | 308-19-220 | NEW | 93-21-053 |
| 296-306-06119 | NEW-W | 93-10-041 | 296-306-25007 | AMD-P | 93-21-071 | 308-19-230 | NEW-P | 93-18-100 |
| 296-306-062 | NEW-W | 93-10-041 | 296-306-260 | AMD-P | 93-21-071 | 308-19-230 | NEW | 93-21-053 |
| 296-306-063 | NEW-W | 93-10-041 | 296-306-26001 | AMD | 93-07-012 | 308-19-240 | NEW-P | 93-18-100 |
| 296-306-064 | NEW-W | 93-10-041 | 296-306-265 | AMD | 93-07-012 | 308-19-240 | NEW | 93-21-053 |
| 296-306-06401 | NEW-W | 93-10-041 | 296-306-265 | AMD-P | 93-21-071 | 308-19-250 | NEW-P | 93-18-100 |
| 296-306-06403 | NEW-W | 93-10-041 | 296-306-270 | AMD | 93-07-012 | 308-19-250 | NEW | 93-21-053 |
| 296-306-06405 | NEW-W | 93-10-041 | 296-306-27095 | AMD | 93-07-012 | 308-19-300 | NEW-P | 93-18-100 |
| 296-306-06407 | NEW-W | 93-10-041 | 296-306-300 | AMD-P | 93-21-071 | 308-19-300 | NEW | 93-21-053 |
| 296-306-06409 | NEW-W | 93-10-041 | 296-306-330 | NEW | 93-07-012 | 308-30-005 | NEW | 93-05-009 |
| 296-306-06411 | NEW-W | 93-10-041 | 296-306-33001 | NEW-W | 93-10-041 | 308-30-010 | AMD | 93-05-009 |
| 296-306-06413 | NEW-W | 93-10-041 | 296-306-400 | AMD | 93-07-012 | 308-30-020 | AMD | 93-05-009 |
| 296-306-06415 | NEW-W | 93-10-041 | 296-306-400 | AMD-P | 93-21-071 | 308-30-030 | AMD | 93-05-009 |
| 296-306-06417 | NEW-W | 93-10-041 | 296-306-40003 | AMD | 93-07-012 | 308-30-040 | AMD | 93-05-009 |
| 296-306-065 | REP-P | 93-21-071 | 296-306-40007 | NEW | 93-07-012 | 308-30-050 | AMD | 93-05-009 |
| 296-306-067 | NEW-W | 93-19-041 | 296-306-40009 | NEW | 93-07-012 | 308-30-060 | AMD | 93-05-009 |
| 296-306-06701 | NEW-W | 93-10-041 | 296-306-40011 | NEW | 93-07-012 | 308-30-070 | AMD | 93-05-009 |
| 296-306-06703 | NEW-W | 93-10-041 | 296-401-075 | NEW | 93-03-048 | 308-30-080 | AMD | 93-05-009 |
| 296-306-06705 | NEW-W | 93-10-041 | 296-401-163 | NEW-P | 93-19-140 | 308-30-090 | AMD | 93-05-009 |
| 296-306-06707 | NEW-W | 93-10-041 | 296-401-163 | NEW | 94-01-005 | 308-30-110 | NEW-W | 93-08-083 |
| 296-306-06709 | NEW-W | 93-10-041 | 296-401-165 | AMD-P | 93-19-140 | 308-30-120 | NEW | 93-05-009 |
| 296-306-068 | NEW-W | 93-10-041 | 296-401-165 | AMD | 94-01-005 | 308-30-130 | NEW | 93-05-009 |

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| 308-30-140 | NEW | 93-05-009 | 308-65-090 | NEW | 93-08-076 | 308-125-010 | AMD | 93-17-020 |
| 308-30-150 | NEW | 93-05-009 | 308-65-100 | NEW | 93-08-076 | 308-125-020 | AMD-P | 93-12-127 |
| 308-30-155 | NEW | 93-05-009 | 308-65-110 | NEW | 93-08-076 | 308-125-020 | AMD | 93-17-020 |
| 308-30-160 | NEW | 93-05-009 | 308-65-120 | NEW | 93-08-076 | 308-125-030 | AMD-P | 93-12-127 |
| 308-30-170 | NEW-W | 93-08-083 | 308-65-130 | NEW | 93-08-076 | 308-125-030 | AMD | 93-17-020 |
| 308-30-180 | NEW-W | 93-08-083 | 308-65-140 | NEW | 93-08-076 | 308-125-035 | REP-P | 93-12-127 |
| 308-30-190 | NEW-W | 93-08-083 | 308-65-150 | NEW | 93-08-076 | 308-125-035 | REP | 93-17-020 |
| 308-56A-115 | AMD-P | 93-10-073 | 308-65-160 | NEW | 93-08-076 | 308-125-040 | AMD-P | 93-12-127 |
| 308-56A-115 | AMD | 93-14-084 | 308-65-170 | NEW | 93-08-076 | 308-125-040 | AMD | 93-17-020 |
| 308-56A-125 | AMD-P | 93-10-073 | 308-65-180 | NEW | 93-08-076 | 308-125-040 | AMD-P | 93-21-068 |
| 308-56A-125 | AMD | 93-14-084 | 308-65-190 | NEW | 93-08-076 | 308-125-045 | AMD | 94-01-002 |
| 308-56A-140 | AMD-P | 93-10-073 | 308-66-196 | NEW-P | 93-10-073 | 308-125-045 | AMD-P | 93-12-127 |
| 308-56A-140 | AMD | 93-14-084 | 308-66-196 | NEW | 93-14-084 | 308-125-045 | AMD | 93-17-020 |
| 308-56A-160 | NEW-P | 93-10-073 | 308-90-080 | AMD-W | 93-14-120 | 308-125-050 | AMD-P | 93-12-127 |
| 308-56A-160 | NEW | 93-14-084 | 308-93-050 | AMD-P | 93-11-076 | 308-125-050 | AMD | 93-17-020 |
| 308-56A-322 | NEW-P | 93-20-078 | 308-93-050 | AMD | 93-14-082 | 308-125-060 | AMD-P | 93-12-127 |
| 308-56A-323 | NEW-P | 93-20-078 | 308-93-070 | AMD-P | 93-11-076 | 308-125-060 | AMD | 93-17-020 |
| 308-56A-420 | AMD-P | 93-10-073 | 308-93-070 | AMD | 93-14-082 | 308-125-065 | NEW-P | 93-12-127 |
| 308-56A-420 | AMD | 93-14-084 | 308-93-073 | AMD-P | 93-24-072 | 308-125-065 | NEW | 93-17-020 |
| 308-61 | AMD | 93-08-076 | 308-93-174 | NEW-P | 93-11-076 | 308-125-070 | AMD-P | 93-12-127 |
| 308-61-010 | REP | 93-08-076 | 308-93-174 | NEW | 93-14-082 | 308-125-070 | AMD | 93-17-020 |
| 308-61-025 | REP | 93-08-076 | 308-93-280 | AMD-P | 93-24-072 | 308-125-085 | AMD-P | 93-12-127 |
| 308-61-026 | AMD | 93-08-076 | 308-93-330 | AMD-P | 93-24-072 | 308-125-085 | AMD | 93-17-020 |
| 308-61-030 | REP | 93-08-076 | 308-93-460 | AMD-P | 93-11-076 | 308-125-090 | AMD-P | 93-12-127 |
| 308-61-040 | REP | 93-08-076 | 308-93-460 | AMD | 93-14-082 | 308-125-090 | AMD | 93-17-020 |
| 308-61-135 | AMD | 93-08-076 | 308-93-460 | AMD | 93-14-082 | 308-125-100 | AMD-P | 93-12-127 |
| 308-61-168 | AMD | 93-08-076 | 308-93-630 | REP-P | 93-24-072 | 308-125-100 | AMD | 93-17-020 |
| 308-61-200 | REP | 93-08-076 | 308-96A-005 | AMD-P | 93-11-069 | 308-125-110 | AMD-P | 93-12-127 |
| 308-61-205 | REP | 93-08-076 | 308-96A-005 | AMD | 93-14-083 | 308-125-110 | AMD | 93-17-020 |
| 308-61-210 | REP | 93-08-076 | 308-96A-057 | AMD-P | 93-11-069 | 308-125-130 | AMD-P | 93-12-127 |
| 308-61-220 | REP | 93-08-076 | 308-96A-057 | AMD | 93-14-083 | 308-125-130 | AMD | 93-17-020 |
| 308-61-230 | REP | 93-08-076 | 308-96A-066 | NEW-P | 93-11-069 | 308-125-140 | AMD-P | 93-12-127 |
| 308-61-240 | REP | 93-08-076 | 308-96A-066 | NEW | 93-14-083 | 308-125-140 | AMD | 93-17-020 |
| 308-61-250 | REP | 93-08-076 | 308-96A-072 | NEW-P | 93-11-069 | 308-125-160 | REP-P | 93-12-127 |
| 308-61-260 | REP | 93-08-076 | 308-96A-072 | NEW | 93-14-083 | 308-125-160 | REP | 93-17-020 |
| 308-61-270 | REP | 93-08-076 | 308-96A-295 | AMD-P | 93-11-069 | 308-125-180 | AMD-P | 93-12-127 |
| 308-61-300 | REP | 93-08-076 | 308-96A-295 | AMD | 93-14-083 | 308-125-180 | AMD | 93-17-020 |
| 308-61-305 | REP | 93-08-076 | 308-96A-330 | AMD-P | 93-11-069 | 308-125-190 | AMD-P | 93-12-127 |
| 308-61-310 | REP | 93-08-076 | 308-96A-330 | AMD | 93-14-083 | 308-125-190 | AMD | 93-17-020 |
| 308-61-320 | REP | 93-08-076 | 308-96A-560 | AMD-P | 93-11-069 | 308-125-210 | AMD-P | 93-12-127 |
| 308-61-330 | REP | 93-08-076 | 308-96A-560 | AMD | 93-14-083 | 308-125-210 | AMD | 93-17-020 |
| 308-61-340 | REP | 93-08-076 | 308-100-030 | REP-P | 93-19-158 | 308-125-225 | NEW-P | 93-12-127 |
| 308-61-400 | REP | 93-08-076 | 308-100-030 | REP | 93-22-071 | 308-125-225 | NEW | 93-17-020 |
| 308-61-405 | REP | 93-08-076 | 308-104-006 | AMD-P | 93-19-158 | 308-128A-020 | AMD-P | 93-21-063 |
| 308-61-410 | REP | 93-08-076 | 308-104-006 | AMD | 93-22-071 | 308-128A-030 | AMD-P | 93-21-063 |
| 308-61-420 | REP | 93-08-076 | 308-104-015 | AMD-P | 93-19-158 | 308-128A-040 | AMD-P | 93-21-063 |
| 308-61-430 | REP | 93-08-076 | 308-104-015 | AMD | 93-22-071 | 308-128C-040 | AMD-P | 93-21-063 |
| 308-61-440 | REP | 93-08-076 | 308-104-040 | AMD-P | 93-19-158 | 308-128C-050 | AMD-P | 93-21-063 |
| 308-61-450 | REP | 93-08-076 | 308-104-040 | AMD | 93-22-071 | 308-128D-010 | AMD-P | 93-21-063 |
| 308-63-010 | NEW | 93-08-076 | 308-104-056 | AMD-P | 93-19-158 | 308-128D-030 | AMD-P | 93-21-063 |
| 308-63-020 | NEW | 93-08-076 | 308-104-056 | AMD | 93-22-071 | 308-128D-040 | AMD-P | 93-21-063 |
| 308-63-030 | NEW | 93-08-076 | 308-104-057 | REP-P | 93-19-158 | 308-128D-070 | AMD-P | 93-21-063 |
| 308-63-040 | NEW | 93-08-076 | 308-104-057 | REP | 93-22-071 | 308-128E-011 | AMD-P | 93-21-063 |
| 308-63-050 | NEW | 93-08-076 | 308-104-080 | AMD-P | 93-19-158 | 308-128F-020 | AMD-P | 93-21-063 |
| 308-63-060 | NEW | 93-08-076 | 308-104-080 | AMD | 93-22-071 | 308-330-005 | NEW-P | 93-20-079 |
| 308-63-070 | NEW | 93-08-076 | 308-104-080 | AMD | 93-22-071 | 308-330-005 | NEW | 94-01-082 |
| 308-63-080 | NEW | 93-08-076 | 308-104-090 | AMD-P | 93-19-158 | 308-330-010 | NEW-P | 93-20-079 |
| 308-63-090 | NEW | 93-08-076 | 308-104-090 | AMD | 93-22-071 | 308-330-010 | NEW | 94-01-082 |
| 308-63-100 | NEW | 93-08-076 | 308-104-110 | REP-P | 93-19-158 | 308-330-030 | NEW-P | 93-20-079 |
| 308-63-110 | NEW | 93-08-076 | 308-104-110 | REP | 93-22-071 | 308-330-030 | NEW | 94-01-082 |
| 308-63-120 | NEW | 93-08-076 | 308-104-140 | REP-P | 93-19-158 | 308-330-100 | NEW-P | 93-20-079 |
| 308-63-130 | NEW | 93-08-076 | 308-104-140 | REP | 93-22-071 | 308-330-100 | NEW | 94-01-082 |
| 308-63-140 | NEW | 93-08-076 | 308-104-145 | AMD-P | 93-19-158 | 308-330-109 | NEW-P | 93-20-079 |
| 308-63-150 | NEW | 93-08-076 | 308-104-145 | AMD | 93-22-071 | 308-330-109 | NEW | 94-01-082 |
| 308-63-160 | NEW | 93-08-076 | 308-104-170 | AMD-P | 93-19-158 | 308-330-112 | NEW-P | 93-20-079 |
| 308-65-010 | NEW | 93-08-076 | 308-104-170 | AMD | 93-22-071 | 308-330-112 | NEW | 94-01-082 |
| 308-65-020 | NEW | 93-08-076 | 308-124A-025 | AMD-P | 93-17-099 | 308-330-115 | NEW-P | 93-20-079 |
| 308-65-030 | NEW | 93-08-076 | 308-124A-025 | AMD | 93-24-096 | 308-330-115 | NEW | 94-01-082 |
| 308-65-040 | NEW | 93-08-076 | 308-124A-440 | AMD-P | 93-17-099 | 308-330-118 | NEW-P | 93-20-079 |
| 308-65-050 | NEW | 93-08-076 | 308-124A-440 | AMD | 93-24-096 | 308-330-118 | NEW | 94-01-082 |
| 308-65-060 | NEW | 93-08-076 | 308-124A-450 | AMD-P | 93-17-099 | 308-330-121 | NEW-P | 93-20-079 |
| 308-65-070 | NEW | 93-08-076 | 308-124A-450 | AMD | 93-24-096 | 308-330-121 | NEW | 94-01-082 |
| 308-65-080 | NEW | 93-08-076 | 308-124A-460 | AMD-P | 93-17-099 | 308-330-123 | NEW-P | 93-20-079 |
| | | | 308-124A-460 | AMD | 93-24-096 | | | |
| | | | 308-125-010 | AMD-P | 93-12-127 | | | |

Table of WAC Sections Affected

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|-------------|-------|-----------|------------|-------|-----------|------------|-------|-----------|
| 308-330-710 | NEW | 94-01-082 | 314-15-030 | NEW-P | 93-19-122 | 315-06-180 | REP-P | 93-24-098 |
| 308-330-720 | NEW-P | 93-20-079 | 314-15-030 | NEW | 93-23-015 | 315-06-190 | AMD-P | 93-24-098 |
| 308-330-720 | NEW | 94-01-082 | 314-15-040 | NEW-E | 93-15-061 | 315-10-030 | AMD-P | 93-24-098 |
| 308-330-730 | NEW-P | 93-20-079 | 314-15-040 | NEW-P | 93-19-122 | 315-10-060 | AMD-P | 93-24-098 |
| 308-330-730 | NEW | 94-01-082 | 314-15-040 | NEW | 93-23-015 | 315-10-080 | AMD-P | 93-24-098 |
| 308-330-740 | NEW-P | 93-20-079 | 314-15-050 | NEW-E | 93-15-061 | 315-11-400 | REP-P | 93-12-104 |
| 308-330-740 | NEW | 94-01-082 | 314-15-050 | NEW-P | 93-19-122 | 315-11-400 | REP | 93-15-019 |
| 308-330-800 | NEW-P | 93-20-079 | 314-15-050 | NEW | 93-23-015 | 315-11-401 | REP-P | 93-12-104 |
| 308-330-800 | NEW | 94-01-082 | 314-16-020 | AMD-P | 93-07-110 | 315-11-401 | REP | 93-15-019 |
| 308-330-810 | NEW-P | 93-20-079 | 314-16-020 | AMD | 93-10-070 | 315-11-402 | REP-P | 93-12-104 |
| 308-330-810 | NEW | 94-01-082 | 314-16-030 | AMD-P | 93-07-110 | 315-11-402 | REP | 93-15-019 |
| 308-330-815 | NEW-P | 93-20-079 | 314-16-030 | AMD-W | 93-10-069 | 315-11-410 | REP-P | 93-12-104 |
| 308-330-815 | NEW | 94-01-082 | 314-16-050 | AMD-P | 93-17-068 | 315-11-410 | REP | 93-15-019 |
| 308-330-820 | NEW-P | 93-20-079 | 314-16-050 | AMD-W | 93-21-019 | 315-11-411 | REP-P | 93-12-104 |
| 308-330-820 | NEW | 94-01-082 | 314-16-090 | AMD-P | 93-12-118 | 315-11-411 | REP | 93-15-019 |
| 308-330-825 | NEW-P | 93-20-079 | 314-16-090 | AMD | 93-15-025 | 315-11-412 | REP-P | 93-12-104 |
| 308-330-825 | NEW | 94-01-082 | 314-16-150 | AMD-P | 93-17-069 | 315-11-412 | REP | 93-15-019 |
| 308-330-910 | NEW-P | 93-20-079 | 314-16-150 | AMD-W | 93-21-019 | 315-11-420 | REP-P | 93-12-104 |
| 308-330-910 | NEW | 94-01-082 | 314-16-190 | AMD-P | 93-06-066 | 315-11-420 | REP | 93-15-019 |
| 314-10-010 | NEW-E | 93-15-062 | 314-16-190 | AMD | 93-10-092 | 315-11-421 | REP-P | 93-12-104 |
| 314-10-010 | NEW-P | 93-19-123 | 314-16-196 | AMD-P | 93-06-066 | 315-11-421 | REP | 93-15-019 |
| 314-10-010 | NEW | 93-23-016 | 314-16-196 | AMD | 93-10-092 | 315-11-422 | REP-P | 93-12-104 |
| 314-10-020 | NEW-E | 93-15-062 | 314-16-250 | AMD-P | 93-12-119 | 315-11-422 | REP | 93-15-019 |
| 314-10-020 | NEW-P | 93-19-123 | 314-16-250 | AMD | 93-15-026 | 315-11-430 | REP-P | 93-12-104 |
| 314-10-020 | NEW | 93-23-016 | 314-20-015 | AMD-P | 93-07-109 | 315-11-430 | REP | 93-15-019 |
| 314-10-030 | NEW-E | 93-15-062 | 314-20-015 | AMD | 93-11-028 | 315-11-431 | REP-P | 93-12-104 |
| 314-10-030 | NEW-P | 93-19-123 | 314-20-030 | AMD-P | 93-07-110 | 315-11-431 | REP | 93-15-019 |
| 314-10-030 | NEW | 93-23-016 | 314-20-030 | AMD | 93-10-070 | 315-11-432 | REP-P | 93-12-104 |
| 314-10-040 | NEW-P | 93-19-123 | 314-20-070 | AMD-P | 93-06-066 | 315-11-432 | REP | 93-15-019 |
| 314-10-040 | NEW | 93-23-016 | 314-20-070 | AMD | 93-10-092 | 315-11-440 | REP-P | 93-12-104 |
| 314-10-050 | NEW-E | 93-15-062 | 314-20-180 | NEW-E | 93-11-027 | 315-11-440 | REP | 93-15-019 |
| 314-10-050 | NEW-P | 93-19-123 | 314-20-180 | NEW-P | 93-12-116 | 315-11-441 | REP-P | 93-12-104 |
| 314-10-050 | NEW | 93-23-016 | 314-20-180 | NEW | 93-15-023 | 315-11-441 | REP | 93-15-019 |
| 314-10-060 | NEW-E | 93-15-062 | 314-24-095 | AMD-P | 93-07-109 | 315-11-442 | REP-P | 93-12-104 |
| 314-10-060 | NEW-P | 93-19-123 | 314-24-095 | AMD | 93-11-028 | 315-11-442 | REP | 93-15-019 |
| 314-10-060 | NEW | 93-23-016 | 314-24-160 | AMD-P | 93-07-109 | 315-11-450 | REP-P | 93-12-104 |
| 314-10-070 | NEW-E | 93-15-062 | 314-24-160 | AMD | 93-11-028 | 315-11-450 | REP | 93-15-019 |
| 314-10-070 | NEW-P | 93-19-123 | 314-24-190 | AMD-P | 93-20-087 | 315-11-451 | REP-P | 93-12-104 |
| 314-10-080 | NEW-E | 93-15-062 | 314-24-190 | AMD-W | 93-23-055 | 315-11-451 | REP | 93-15-019 |
| 314-10-080 | NEW-P | 93-19-123 | 314-24-200 | AMD-P | 93-20-087 | 315-11-452 | REP-P | 93-12-104 |
| 314-10-080 | NEW | 93-23-016 | 314-24-200 | AMD-W | 93-23-055 | 315-11-452 | REP | 93-15-019 |
| 314-10-090 | NEW-E | 93-15-062 | 314-38-050 | NEW-P | 93-17-071 | 315-11-460 | REP-P | 93-12-104 |
| 314-10-090 | NEW-P | 93-19-123 | 314-38-050 | NEW | 93-20-031 | 315-11-460 | REP | 93-15-019 |
| 314-10-090 | NEW | 93-23-016 | 314-40-030 | AMD-P | 93-07-109 | 315-11-461 | REP-P | 93-12-104 |
| 314-10-100 | NEW-E | 93-15-062 | 314-40-030 | AMD | 93-11-028 | 315-11-461 | REP | 93-15-019 |
| 314-10-100 | NEW-P | 93-19-123 | 314-52-080 | AMD-P | 93-07-109 | 315-11-462 | REP-P | 93-12-104 |
| 314-10-100 | NEW | 93-23-016 | 314-52-080 | AMD | 93-11-028 | 315-11-462 | REP | 93-15-019 |
| 314-10-110 | NEW-E | 93-15-062 | 314-60-010 | AMD-P | 93-24-077 | 315-11-470 | REP-P | 93-12-104 |
| 314-10-110 | NEW-P | 93-19-123 | 314-60-020 | AMD-P | 93-24-077 | 315-11-470 | REP | 93-15-019 |
| 314-10-110 | NEW | 93-23-016 | 314-60-030 | AMD-P | 93-24-077 | 315-11-471 | REP-P | 93-12-104 |
| 314-12-015 | AMD-P | 93-12-120 | 314-60-080 | AMD-P | 93-24-077 | 315-11-471 | REP | 93-15-019 |
| 314-12-015 | AMD | 93-15-027 | 314-60-105 | AMD-P | 93-24-077 | 315-11-472 | REP-P | 93-12-104 |
| 314-12-020 | AMD-P | 93-07-110 | 314-60-110 | AMD-P | 93-24-077 | 315-11-472 | REP | 93-15-019 |
| 314-12-020 | AMD-W | 93-10-069 | 314-70-050 | NEW-P | 93-07-109 | 315-11-480 | REP-P | 93-12-104 |
| 314-12-020 | AMD-P | 93-12-117 | 314-70-050 | NEW | 93-11-028 | 315-11-480 | REP | 93-15-019 |
| 314-12-020 | AMD | 93-15-024 | 315-02-120 | REP-P | 93-24-098 | 315-11-481 | REP-P | 93-12-104 |
| 314-12-025 | AMD-P | 93-07-110 | 315-02-230 | NEW | 93-04-004 | 315-11-481 | REP | 93-15-019 |
| 314-12-025 | AMD | 93-10-070 | 315-04-180 | AMD-P | 93-24-098 | 315-11-482 | REP-P | 93-12-104 |
| 314-12-030 | AMD-P | 93-06-066 | 315-04-210 | AMD-P | 93-24-098 | 315-11-482 | REP | 93-15-019 |
| 314-12-030 | AMD | 93-10-092 | 315-06-035 | AMD-P | 93-24-098 | 315-11-490 | REP-P | 93-12-104 |
| 314-12-030 | AMD-P | 93-15-117 | 315-06-120 | AMD | 93-04-004 | 315-11-490 | REP | 93-15-019 |
| 314-12-030 | AMD | 93-18-094 | 315-06-125 | AMD | 93-04-004 | 315-11-491 | REP-P | 93-12-104 |
| 314-12-140 | AMD-P | 93-07-110 | 315-06-125 | AMD-P | 93-07-121 | 315-11-491 | REP | 93-15-019 |
| 314-12-140 | AMD | 93-10-070 | 315-06-125 | AMD | 93-11-056 | 315-11-492 | REP-P | 93-12-104 |
| 314-12-142 | NEW-P | 93-17-070 | 315-06-125 | AMD-P | 93-16-096 | 315-11-492 | REP | 93-15-019 |
| 314-12-142 | NEW-W | 93-21-019 | 315-06-125 | AMD-W | 93-19-032 | 315-11-500 | REP-P | 93-12-104 |
| 314-15-010 | NEW-E | 93-15-061 | 315-06-125 | AMD-P | 93-19-133 | 315-11-500 | REP | 93-15-019 |
| 314-15-010 | NEW-P | 93-19-122 | 315-06-125 | AMD | 93-23-012 | 315-11-501 | REP-P | 93-12-104 |
| 314-15-010 | NEW | 93-23-015 | 315-06-130 | AMD | 93-04-004 | 315-11-501 | REP | 93-15-019 |
| 314-15-020 | NEW-E | 93-15-061 | 315-06-140 | REP-P | 93-24-098 | 315-11-502 | REP-P | 93-12-104 |
| 314-15-020 | NEW-P | 93-19-122 | 315-06-150 | REP-P | 93-24-098 | 315-11-502 | REP | 93-15-019 |
| 314-15-020 | NEW | 93-23-015 | 315-06-160 | REP-P | 93-24-098 | 315-11-510 | REP-P | 93-12-104 |
| 314-15-030 | NEW-E | 93-15-061 | 315-06-170 | AMD-P | 93-24-098 | 315-11-510 | REP | 93-15-019 |

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| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|------------|-------|-----------|-------------|-------|-----------|-------------|-------|-----------|
| 315-11-511 | REP-P | 93-12-104 | 315-11-962 | NEW-P | 93-03-094 | 315-20-100 | REP | 93-15-019 |
| 315-11-511 | REP | 93-15-019 | 315-11-962 | NEW | 93-07-016 | 315-20-105 | NEW-P | 93-12-104 |
| 315-11-512 | REP-P | 93-12-104 | 315-11-970 | NEW-P | 93-03-094 | 315-20-105 | NEW | 93-15-019 |
| 315-11-512 | REP | 93-15-019 | 315-11-970 | NEW | 93-07-016 | 315-20-110 | REP-P | 93-12-104 |
| 315-11-520 | REP-P | 93-12-104 | 315-11-971 | NEW-P | 93-03-094 | 315-20-110 | REP | 93-15-019 |
| 315-11-520 | REP | 93-15-019 | 315-11-971 | NEW | 93-07-016 | 315-20-115 | NEW-P | 93-12-104 |
| 315-11-521 | REP-P | 93-12-104 | 315-11-972 | NEW-P | 93-03-094 | 315-20-115 | NEW | 93-15-019 |
| 315-11-521 | REP | 93-15-019 | 315-11-972 | NEW | 93-07-016 | 315-20-120 | REP-P | 93-12-104 |
| 315-11-522 | REP-P | 93-12-104 | 315-11-980 | NEW-P | 93-07-121 | 315-20-120 | REP | 93-15-019 |
| 315-11-522 | REP | 93-15-019 | 315-11-980 | NEW | 93-11-056 | 315-20-130 | REP-P | 93-12-104 |
| 315-11-530 | REP-P | 93-12-104 | 315-11-981 | NEW-P | 93-07-121 | 315-20-130 | REP | 93-15-019 |
| 315-11-530 | REP | 93-15-019 | 315-11-981 | NEW | 93-11-056 | 315-20-140 | REP-P | 93-12-104 |
| 315-11-531 | REP-P | 93-12-104 | 315-11-982 | NEW-P | 93-07-121 | 315-20-140 | REP | 93-15-019 |
| 315-11-531 | REP | 93-15-019 | 315-11-982 | NEW | 93-11-056 | 315-20-150 | REP-P | 93-12-104 |
| 315-11-532 | REP-P | 93-12-104 | 315-11-990 | NEW-P | 93-07-121 | 315-20-150 | REP | 93-15-019 |
| 315-11-532 | REP | 93-15-019 | 315-11-990 | NEW | 93-11-056 | 315-30-030 | AMD-P | 93-24-098 |
| 315-11-540 | REP-P | 93-12-104 | 315-11-990 | AMD-P | 93-16-096 | 315-33A-030 | AMD-P | 93-16-096 |
| 315-11-540 | REP | 93-15-019 | 315-11-990 | AMD | 93-19-052 | 315-33A-030 | AMD | 93-19-052 |
| 315-11-541 | REP-P | 93-12-104 | 315-11-991 | NEW-P | 93-07-121 | 315-33A-050 | AMD-P | 93-16-096 |
| 315-11-541 | REP | 93-15-019 | 315-11-991 | NEW | 93-11-056 | 315-33A-050 | AMD | 93-19-052 |
| 315-11-542 | REP-P | 93-12-104 | 315-11-991 | AMD-P | 93-16-096 | 315-33A-060 | AMD-P | 93-16-096 |
| 315-11-542 | REP | 93-15-019 | 315-11-991 | AMD | 93-19-052 | 315-33A-060 | AMD | 93-19-052 |
| 315-11-550 | REP-P | 93-12-104 | 315-11-992 | NEW-P | 93-07-121 | 315-33B-060 | AMD-P | 93-16-096 |
| 315-11-550 | REP | 93-15-019 | 315-11-992 | NEW | 93-11-056 | 315-33B-060 | AMD | 93-19-052 |
| 315-11-551 | REP-P | 93-12-104 | 315-11-992 | AMD-P | 93-16-096 | 315-34-040 | AMD | 93-03-008 |
| 315-11-551 | REP | 93-15-019 | 315-11-992 | AMD | 93-19-052 | 317-01-010 | NEW-P | 93-06-086 |
| 315-11-552 | REP-P | 93-12-104 | 315-11A-100 | NEW-P | 93-07-121 | 317-01-010 | NEW | 93-11-004 |
| 315-11-552 | REP | 93-15-019 | 315-11A-100 | NEW | 93-11-056 | 317-01-020 | NEW-P | 93-06-086 |
| 315-11-560 | REP-P | 93-12-104 | 315-11A-101 | NEW-P | 93-12-104 | 317-01-020 | NEW | 93-11-004 |
| 315-11-560 | REP | 93-15-019 | 315-11A-101 | NEW | 93-15-019 | 317-01-030 | NEW-P | 93-06-086 |
| 315-11-561 | REP-P | 93-12-104 | 315-11A-102 | NEW-P | 93-12-104 | 317-01-030 | NEW | 93-11-004 |
| 315-11-561 | REP | 93-15-019 | 315-11A-102 | NEW | 93-15-019 | 317-02-010 | NEW-P | 93-06-087 |
| 315-11-562 | REP-P | 93-12-104 | 315-11A-103 | NEW-P | 93-12-104 | 317-02-010 | NEW | 93-11-003 |
| 315-11-562 | REP | 93-15-019 | 315-11A-103 | NEW | 93-15-019 | 317-02-020 | NEW-P | 93-06-087 |
| 315-11-570 | REP-P | 93-12-104 | 315-11A-104 | NEW-P | 93-12-104 | 317-02-020 | NEW | 93-11-003 |
| 315-11-570 | REP | 93-15-019 | 315-11A-104 | NEW | 93-15-019 | 317-02-030 | NEW-P | 93-06-087 |
| 315-11-571 | REP-P | 93-12-104 | 315-11A-105 | NEW-P | 93-12-104 | 317-02-030 | NEW | 93-11-003 |
| 315-11-571 | REP | 93-15-019 | 315-11A-105 | NEW | 93-15-019 | 317-02-040 | NEW-P | 93-06-087 |
| 315-11-572 | REP-P | 93-12-104 | 315-11A-106 | NEW-P | 93-16-096 | 317-02-040 | NEW | 93-11-003 |
| 315-11-572 | REP | 93-15-019 | 315-11A-106 | NEW | 93-19-052 | 317-02-050 | NEW-P | 93-06-087 |
| 315-11-580 | REP-P | 93-12-104 | 315-11A-107 | NEW-P | 93-16-096 | 317-02-050 | NEW | 93-11-003 |
| 315-11-580 | REP | 93-15-019 | 315-11A-107 | NEW | 93-19-052 | 317-02-060 | NEW-P | 93-06-087 |
| 315-11-581 | REP-P | 93-12-104 | 315-11A-108 | NEW-P | 93-16-096 | 317-02-060 | NEW | 93-11-003 |
| 315-11-581 | REP | 93-15-019 | 315-11A-108 | NEW | 93-19-052 | 317-02-070 | NEW-P | 93-06-087 |
| 315-11-582 | REP-P | 93-12-104 | 315-11A-109 | NEW-P | 93-16-096 | 317-02-070 | NEW | 93-11-003 |
| 315-11-582 | REP | 93-15-019 | 315-11A-109 | NEW | 93-19-052 | 317-02-080 | NEW-P | 93-06-087 |
| 315-11-590 | REP-P | 93-12-104 | 315-11A-110 | NEW-P | 93-19-133 | 317-02-080 | NEW | 93-11-003 |
| 315-11-590 | REP | 93-15-019 | 315-11A-110 | NEW | 93-23-012 | 317-02-090 | NEW-P | 93-06-087 |
| 315-11-591 | REP-P | 93-12-104 | 315-11A-111 | NEW-P | 93-19-133 | 317-02-090 | NEW | 93-11-003 |
| 315-11-591 | REP | 93-15-019 | 315-11A-111 | NEW | 93-23-012 | 317-02-100 | NEW-P | 93-06-087 |
| 315-11-592 | REP-P | 93-12-104 | 315-11A-112 | NEW-P | 93-19-133 | 317-02-100 | NEW | 93-11-003 |
| 315-11-592 | REP | 93-15-019 | 315-11A-112 | NEW | 93-23-012 | 317-02-110 | NEW-P | 93-06-087 |
| 315-11-890 | AMD-P | 93-03-094 | 315-11A-113 | NEW-P | 93-19-133 | 317-02-110 | NEW | 93-11-003 |
| 315-11-890 | AMD | 93-07-016 | 315-11A-113 | NEW | 93-23-012 | 317-02-120 | NEW-P | 93-06-087 |
| 315-11-920 | NEW | 93-03-008 | 315-11A-114 | NEW-P | 93-24-098 | 317-02-120 | NEW | 93-11-003 |
| 315-11-921 | NEW | 93-03-008 | 315-11A-115 | NEW-P | 93-24-098 | 317-03-010 | NEW-P | 93-06-088 |
| 315-11-922 | NEW | 93-03-008 | 315-11A-116 | NEW-P | 93-24-098 | 317-03-010 | NEW | 93-11-002 |
| 315-11-930 | NEW | 93-03-008 | 315-11A-117 | NEW-P | 93-24-098 | 317-03-020 | NEW-P | 93-06-088 |
| 315-11-931 | NEW | 93-03-008 | 315-20-005 | NEW-P | 93-12-104 | 317-03-020 | NEW | 93-11-002 |
| 315-11-932 | NEW | 93-03-008 | 315-20-005 | NEW | 93-15-019 | 317-03-030 | NEW-P | 93-06-088 |
| 315-11-940 | NEW | 93-03-008 | 315-20-070 | REP-P | 93-12-104 | 317-03-030 | NEW-W | 93-19-050 |
| 315-11-941 | NEW | 93-03-008 | 315-20-070 | REP | 93-15-019 | 317-05-010 | NEW-P | 93-02-053 |
| 315-11-942 | NEW | 93-03-008 | 315-20-075 | NEW-P | 93-12-104 | 317-05-010 | NEW | 93-07-004 |
| 315-11-950 | NEW-P | 93-03-094 | 315-20-075 | NEW | 93-15-019 | 317-05-020 | NEW-P | 93-02-053 |
| 315-11-950 | NEW | 93-07-016 | 315-20-080 | REP-P | 93-12-104 | 317-05-020 | NEW | 93-07-004 |
| 315-11-951 | NEW-P | 93-03-094 | 315-20-080 | REP | 93-15-019 | 317-05-030 | NEW-P | 93-02-053 |
| 315-11-951 | NEW | 93-07-016 | 315-20-085 | NEW-P | 93-12-104 | 317-05-030 | NEW | 93-07-004 |
| 315-11-952 | NEW-P | 93-03-094 | 315-20-085 | NEW | 93-15-019 | 317-10-035 | AMD-P | 93-09-069 |
| 315-11-952 | NEW | 93-07-016 | 315-20-090 | REP-P | 93-12-104 | 317-10-035 | AMD | 93-14-096 |
| 315-11-960 | NEW-P | 93-03-094 | 315-20-090 | REP | 93-15-019 | 317-10-060 | AMD-P | 93-06-089 |
| 315-11-960 | NEW | 93-07-016 | 315-20-095 | NEW-P | 93-12-104 | 317-10-060 | AMD | 93-11-001 |
| 315-11-961 | NEW-P | 93-03-094 | 315-20-095 | NEW | 93-15-019 | 317-20 | NEW-P | 93-02-055 |
| 315-11-961 | NEW | 93-07-016 | 315-20-100 | REP-P | 93-12-104 | 317-20 | NEW | 93-07-005 |

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Table of WAC Sections Affected

| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
|------------|-------|-----------|-------------|-------|-----------|--------------|---------|-----------|
| 317-20-010 | NEW-P | 93-02-055 | 317-30-070 | NEW | 93-07-003 | 332-24-730 | NEW | 93-14-016 |
| 317-20-010 | NEW | 93-07-005 | 317-30-080 | NEW-P | 93-02-054 | 332-24-735 | NEW-P | 93-19-080 |
| 317-20-020 | NEW-P | 93-02-055 | 317-30-080 | NEW | 93-07-003 | 332-24-735 | NEW | 93-24-065 |
| 317-20-020 | NEW | 93-07-005 | 317-30-090 | NEW-P | 93-02-054 | 332-26-010 | NEW-E | 93-15-048 |
| 317-20-025 | NEW | 93-07-005 | 317-30-090 | NEW | 93-07-003 | 332-26-040 | NEW-E | 93-15-048 |
| 317-20-030 | NEW-P | 93-02-055 | 317-30-100 | NEW-P | 93-02-054 | 332-26-050 | NEW-E | 93-15-048 |
| 317-20-030 | NEW | 93-07-005 | 317-30-100 | NEW | 93-07-003 | 332-26-060 | NEW-E | 93-15-048 |
| 317-20-040 | NEW-P | 93-02-055 | 317-30-110 | NEW-P | 93-02-054 | 332-26-080 | NEW-E | 93-09-020 |
| 317-20-040 | NEW | 93-07-005 | 317-30-110 | NEW | 93-07-003 | 332-26-080 | NEW-E | 93-09-020 |
| 317-20-050 | NEW-P | 93-02-055 | 317-30-120 | NEW-P | 93-02-054 | 332-26-080 | AMD-E | 93-10-058 |
| 317-20-050 | NEW | 93-07-005 | 317-30-120 | NEW | 93-07-003 | 332-120-010 | AMD-P | 94-01-022 |
| 317-20-055 | NEW-P | 93-02-055 | 317-30-130 | NEW-P | 93-02-054 | 332-120-020 | AMD-P | 94-01-022 |
| 317-20-055 | NEW | 93-07-005 | 317-30-130 | NEW | 93-07-003 | 332-120-030 | AMD-P | 94-01-022 |
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| 317-20-060 | NEW | 93-07-005 | 317-30-140 | NEW | 93-07-003 | 332-120-050 | AMD-P | 94-01-022 |
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| 317-20-065 | NEW | 93-07-005 | 317-30-150 | NEW | 93-07-003 | 332-120-070 | NEW-P | 94-01-022 |
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| 317-20-066 | NEW | 93-07-005 | 317-30-150 | NEW | 93-07-003 | 352-12-020 | AMD-E | 93-10-060 |
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| 317-30-020 | NEW | 93-07-003 | 326-30-051 | AMD-P | 94-01-127 | 352-70-040 | AMD | 93-20-018 |
| 317-30-030 | NEW-P | 93-02-054 | 326-40-010 | AMD-E | 93-05-037 | 352-70-050 | AMD-P | 93-16-065 |
| 317-30-030 | NEW | 93-07-003 | 326-40-010 | AMD-E | 93-16-081 | 352-70-050 | AMD | 93-20-018 |
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| 356-07-060 | REP-P | 93-22-037 | 356-18-145 | NEW | 93-19-152 | 356-47-010 | REP-P | 93-14-063 |
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| 356-56-010 | NEW-C | 94-01-048 | 356-56-300 | NEW-P | 93-22-113 | 365-24-210 | REP-P | 93-15-086 |
| 356-56-010 | NEW | 94-01-126 | 356-56-300 | NEW-C | 94-01-048 | 365-24-210 | REP | 93-19-102 |
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| 356-56-020 | NEW-C | 93-22-086 | 356-56-420 | NEW-C | 94-01-048 | 365-24-310 | REP | 93-19-102 |
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| 356-56-021 | NEW-E | 93-14-091 | 356-56-500 | NEW-C | 94-01-048 | 365-24-330 | REP | 93-19-102 |
| 356-56-021 | NEW-P | 93-16-019 | 356-56-500 | NEW | 94-01-126 | 365-24-410 | REP-P | 93-15-086 |
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| 356-56-021 | NEW-C | 93-22-086 | 356-56-550 | NEW | 94-01-126 | 365-24-420 | REP | 93-19-102 |
| 356-56-021 | NEW-C | 93-23-067 | 356-56-600 | NEW-P | 93-22-113 | 365-24-430 | REP-P | 93-15-086 |
| 356-56-021 | NEW | 94-01-126 | 356-56-600 | NEW-C | 94-01-048 | 365-24-430 | REP | 93-19-102 |
| 356-56-030 | NEW-P | 93-22-113 | 356-56-600 | NEW | 94-01-126 | 365-24-440 | REP-P | 93-15-086 |
| 356-56-030 | NEW-C | 94-01-048 | 356-56-610 | NEW-P | 93-22-113 | 365-24-440 | REP | 93-19-102 |
| 356-56-030 | NEW | 94-01-126 | 356-56-610 | NEW-C | 94-01-048 | 365-24-450 | REP-P | 93-15-086 |
| 356-56-035 | NEW-P | 93-22-113 | 356-56-610 | NEW | 94-01-126 | 365-24-450 | REP | 93-19-102 |
| 356-56-035 | NEW-C | 94-01-048 | 356-56-630 | NEW-P | 93-22-113 | 365-24-460 | REP-P | 93-15-086 |
| 356-56-035 | NEW | 94-01-126 | 356-56-630 | NEW-C | 94-01-048 | 365-24-460 | REP | 93-19-102 |
| 356-56-050 | NEW | 94-01-126 | 356-56-630 | NEW | 94-01-126 | 365-24-510 | REP-P | 93-15-086 |
| 356-56-100 | NEW-P | 93-22-113 | 356-56-650 | NEW-P | 93-22-113 | 365-24-510 | REP | 93-19-102 |
| 356-56-100 | NEW-C | 94-01-048 | 356-56-650 | NEW-C | 94-01-048 | 365-24-520 | REP-P | 93-15-086 |
| 356-56-100 | NEW | 94-01-126 | 356-56-650 | NEW | 94-01-126 | 365-24-520 | REP | 93-19-102 |
| 356-56-105 | NEW-P | 93-22-113 | 356-56-660 | NEW-P | 93-22-113 | 365-24-530 | REP-P | 93-15-086 |
| 356-56-105 | NEW-C | 94-01-048 | 356-56-660 | NEW-C | 94-01-048 | 365-24-530 | REP | 93-19-102 |
| 356-56-105 | NEW | 94-01-126 | 356-56-660 | NEW | 94-01-126 | 365-24-540 | REP-P | 93-15-086 |
| 356-56-110 | NEW-P | 93-22-113 | 359-07-010 | NEW-P | 93-22-036 | 365-24-540 | REP | 93-19-102 |
| 356-56-110 | NEW-C | 94-01-048 | 359-07-020 | NEW-P | 93-22-036 | 365-24-610 | REP-P | 93-15-086 |
| 356-56-115 | NEW-P | 93-22-113 | 359-07-030 | NEW-P | 93-22-036 | 365-24-610 | REP | 93-19-102 |
| 356-56-115 | NEW-C | 94-01-048 | 359-07-040 | NEW-P | 93-22-036 | 365-24-620 | REP-P | 93-15-086 |
| 356-56-115 | NEW | 94-01-126 | 359-07-050 | NEW-P | 93-22-036 | 365-24-620 | REP | 93-19-102 |
| 356-56-120 | NEW-P | 93-22-113 | 359-07-055 | NEW-P | 93-22-036 | 365-24-710 | REP-P | 93-15-086 |
| 356-56-120 | NEW-C | 94-01-048 | 359-07-060 | NEW-P | 93-22-036 | 365-24-710 | REP | 93-19-102 |
| 356-56-120 | NEW | 94-01-126 | 359-07-070 | NEW-P | 93-22-036 | 365-24-720 | REP-P | 93-15-086 |
| 356-56-125 | NEW-P | 93-22-113 | 359-09-010 | NEW-P | 93-24-080 | 365-24-720 | REP | 93-19-102 |
| 356-56-125 | NEW-C | 94-01-048 | 359-09-012 | NEW-P | 93-24-080 | 365-24-730 | REP-P | 93-15-086 |
| 356-56-125 | NEW | 94-01-126 | 359-09-015 | NEW-P | 93-24-080 | 365-24-730 | REP | 93-19-102 |
| 356-56-200 | NEW-P | 93-22-113 | 359-09-020 | NEW-P | 93-24-080 | 365-24-810 | REP-P | 93-15-086 |
| 356-56-200 | NEW-C | 94-01-048 | 359-09-030 | NEW-P | 93-24-080 | 365-24-810 | REP | 93-19-102 |
| 356-56-200 | NEW | 94-01-126 | 359-09-040 | NEW-P | 93-24-080 | 365-24-820 | REP-P | 93-15-086 |
| 356-56-205 | NEW-P | 93-22-113 | 359-09-050 | NEW-P | 93-24-080 | 365-24-820 | REP | 93-19-102 |
| 356-56-205 | NEW-C | 94-01-048 | 359-09-070 | NEW-P | 93-24-080 | 365-24-822 | REP-P | 93-15-086 |
| 356-56-205 | NEW | 94-01-126 | 359-48-010 | NEW-P | 93-22-039 | 365-24-822 | REP | 93-19-102 |
| 356-56-210 | NEW-P | 93-22-113 | 359-48-020 | NEW-P | 93-22-039 | 365-24-824 | REP-P | 93-15-086 |
| 356-56-210 | NEW-C | 94-01-048 | 359-48-030 | NEW-P | 93-22-039 | 365-24-824 | REP | 93-19-102 |
| 356-56-210 | NEW | 94-01-126 | 359-48-040 | NEW-P | 93-22-039 | 365-24-830 | REP-P | 93-15-086 |
| 356-56-215 | NEW-P | 93-22-113 | 359-48-050 | NEW-P | 93-22-039 | 365-24-830 | REP | 93-19-102 |
| 356-56-215 | NEW-C | 94-01-048 | 359-48-060 | NEW-P | 93-22-039 | 365-24-832 | REP-P | 93-15-086 |
| 356-56-215 | NEW | 94-01-126 | 365-24-010 | REP-P | 93-15-086 | 365-24-832 | REP | 93-19-102 |
| 356-56-220 | NEW-P | 93-22-113 | 365-24-010 | REP | 93-19-102 | 365-24-834 | REP-P | 93-15-086 |
| 356-56-220 | NEW-C | 94-01-048 | 365-24-020 | REP-P | 93-15-086 | 365-24-834 | REP | 93-19-102 |
| 356-56-220 | NEW | 94-01-126 | 365-24-020 | REP | 93-19-102 | 365-24-840 | REP-P | 93-15-086 |
| 356-56-230 | NEW-P | 93-22-113 | 365-24-030 | REP-P | 93-15-086 | 365-24-840 | REP | 93-19-102 |
| 356-56-230 | NEW-C | 94-01-048 | 365-24-030 | REP | 93-19-102 | 365-24-850 | REP-P | 93-15-086 |
| 356-56-230 | NEW | 94-01-126 | 365-24-040 | REP-P | 93-15-086 | 365-24-850 | REP | 93-19-102 |
| 356-56-240 | NEW-P | 93-22-113 | 365-24-040 | REP | 93-19-102 | 365-24-852 | REP-P | 93-15-086 |
| 356-56-240 | NEW-C | 94-01-048 | 365-24-050 | REP-P | 93-15-086 | 365-24-852 | REP | 93-19-102 |
| 356-56-250 | NEW-P | 93-22-113 | 365-24-050 | REP | 93-19-102 | 365-24-854 | REP-P | 93-15-086 |
| 356-56-250 | NEW-C | 94-01-048 | 365-24-060 | REP-P | 93-15-086 | 365-24-854 | REP | 93-19-102 |
| 356-56-255 | NEW-P | 93-22-113 | 365-24-060 | REP | 93-19-102 | 365-24-856 | REP-P | 93-15-086 |
| 356-56-255 | NEW-C | 94-01-048 | 365-24-100 | REP-P | 93-15-086 | 365-24-856 | REP | 93-19-102 |

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| 365-24-858 | REP-P | 93-15-086 | 365-195-760 | NEW | 93-17-040 | 388-11-010 | AMD | 93-05-020 |
| 365-24-858 | REP | 93-19-102 | 365-195-765 | NEW-P | 93-13-138 | 388-11-011 | AMD | 93-05-020 |
| 365-24-860 | REP-P | 93-15-086 | 365-195-765 | NEW | 93-17-040 | 388-11-015 | AMD-P | 93-13-067 |
| 365-24-860 | REP | 93-19-102 | 365-195-770 | NEW-P | 93-13-138 | 388-11-015 | AMD | 93-17-060 |
| 365-24-862 | REP-P | 93-15-086 | 365-195-770 | NEW | 93-17-040 | 388-11-030 | AMD-P | 93-13-067 |
| 365-24-862 | REP | 93-19-102 | 365-195-800 | AMD-P | 93-13-138 | 388-11-030 | AMD | 93-17-060 |
| 365-24-870 | REP-P | 93-15-086 | 365-195-800 | AMD | 93-17-040 | 388-11-035 | NEW-P | 93-13-067 |
| 365-24-870 | REP | 93-19-102 | 365-195-805 | NEW-P | 93-13-138 | 388-11-035 | NEW | 93-17-060 |
| 365-24-880 | REP-P | 93-15-086 | 365-195-805 | NEW | 93-17-040 | 388-11-045 | AMD | 93-05-020 |
| 365-24-880 | REP | 93-19-102 | 365-195-810 | AMD-P | 93-13-138 | 388-11-055 | AMD-P | 93-13-067 |
| 365-24-882 | REP-P | 93-15-086 | 365-195-810 | AMD | 93-17-040 | 388-11-055 | AMD | 93-17-060 |
| 365-24-882 | REP | 93-19-102 | 365-195-815 | NEW-P | 93-13-138 | 388-11-115 | REP-P | 93-13-067 |
| 365-24-884 | REP-P | 93-15-086 | 365-195-815 | NEW | 93-17-040 | 388-11-115 | REP | 93-17-060 |
| 365-24-884 | REP | 93-19-102 | 365-195-820 | AMD-P | 93-13-138 | 388-11-120 | AMD | 93-05-020 |
| 365-24-910 | REP-P | 93-15-086 | 365-195-820 | AMD | 93-17-040 | 388-11-120 | AMD-P | 93-13-067 |
| 365-24-910 | REP | 93-19-102 | 365-195-825 | NEW-P | 93-13-138 | 388-11-120 | AMD | 93-17-060 |
| 365-24-920 | REP-P | 93-15-086 | 365-195-825 | NEW | 93-17-040 | 388-11-135 | AMD-P | 93-13-067 |
| 365-24-920 | REP | 93-19-102 | 365-195-830 | AMD-P | 93-13-138 | 388-11-135 | AMD | 93-17-060 |
| 365-24-930 | REP-P | 93-15-086 | 365-195-830 | AMD | 93-17-040 | 388-11-143 | NEW-P | 93-16-057 |
| 365-24-930 | REP | 93-19-102 | 365-195-835 | NEW-P | 93-13-138 | 388-11-143 | NEW-C | 93-19-044 |
| 365-24-940 | REP-P | 93-15-086 | 365-195-835 | NEW | 93-17-040 | 388-11-143 | NEW-C | 93-19-107 |
| 365-24-940 | REP | 93-19-102 | 365-195-840 | AMD-P | 93-13-138 | 388-11-143 | NEW-C | 93-20-076 |
| 365-24-950 | REP-P | 93-15-086 | 365-195-840 | AMD | 93-17-040 | 388-11-143 | NEW-C | 93-22-010 |
| 365-24-950 | REP | 93-19-102 | 365-195-845 | NEW-P | 93-13-138 | 388-11-143 | NEW | 93-24-014 |
| 365-24-960 | REP-P | 93-15-086 | 365-195-845 | NEW | 93-17-040 | 388-11-145 | AMD-P | 93-13-067 |
| 365-24-960 | REP | 93-19-102 | 365-195-850 | NEW-P | 93-13-138 | 388-11-145 | AMD | 93-17-060 |
| 365-135-020 | AMD-P | 93-09-061 | 365-195-850 | NEW | 93-17-040 | 388-11-150 | AMD | 93-05-020 |
| 365-135-020 | AMD | 93-13-012 | 365-195-855 | NEW-P | 93-13-138 | 388-11-170 | AMD-P | 93-13-067 |
| 365-135-040 | AMD-P | 93-09-061 | 365-195-855 | NEW | 93-17-040 | 388-11-170 | AMD | 93-17-060 |
| 365-135-040 | AMD | 93-13-012 | 365-195-860 | NEW-P | 93-13-138 | 388-11-210 | AMD | 93-05-020 |
| 365-135-050 | AMD-P | 93-09-061 | 365-195-860 | NEW | 93-17-040 | 388-14-030 | AMD | 93-05-020 |
| 365-135-050 | AMD | 93-13-012 | 365-195-865 | NEW-P | 93-13-138 | 388-14-205 | AMD | 93-05-020 |
| 365-135-070 | NEW-P | 93-09-061 | 365-195-865 | NEW | 93-17-040 | 388-14-385 | AMD | 93-05-020 |
| 365-135-070 | NEW | 93-13-012 | 365-300-010 | NEW-E | 93-07-063 | 388-14-420 | AMD | 93-05-020 |
| 365-140-030 | AMD-P | 93-08-087 | 365-300-010 | NEW-P | 93-07-112 | 388-14-427 | NEW | 93-05-020 |
| 365-140-030 | AMD | 93-18-021 | 365-300-010 | NEW | 93-11-039 | 388-14-435 | AMD | 93-05-020 |
| 365-140-040 | AMD-P | 93-08-087 | 365-300-020 | NEW-E | 93-07-063 | 388-15-132 | AMD-P | 93-10-093 |
| 365-140-040 | AMD | 93-18-021 | 365-300-020 | NEW-P | 93-07-112 | 388-15-132 | AMD | 93-13-021 |
| 365-140-050 | AMD-P | 93-08-087 | 365-300-020 | NEW | 93-11-039 | 388-15-136 | REP-P | 93-10-093 |
| 365-140-050 | AMD | 93-18-021 | 365-300-030 | NEW-E | 93-07-063 | 388-15-136 | REP | 93-13-021 |
| 365-140-060 | AMD-P | 93-08-087 | 365-300-030 | NEW-P | 93-07-112 | 388-15-170 | AMD-P | 93-07-018 |
| 365-140-060 | AMD | 93-18-021 | 365-300-030 | NEW | 93-11-039 | 388-15-170 | AMD-E | 93-07-019 |
| 365-195-210 | AMD-P | 93-13-138 | 365-300-040 | NEW-E | 93-07-063 | 388-15-202 | AMD | 93-10-021 |
| 365-195-210 | AMD | 93-17-040 | 365-300-040 | NEW-P | 93-07-112 | 388-15-202 | NEW-C | 93-04-023 |
| 365-195-220 | AMD-P | 93-13-138 | 365-300-040 | NEW | 93-11-039 | 388-15-202 | NEW | 93-06-042 |
| 365-195-220 | AMD | 93-17-040 | 365-300-050 | NEW-E | 93-07-063 | 388-15-203 | NEW-C | 93-04-023 |
| 365-195-620 | AMD-P | 93-13-138 | 365-300-050 | NEW-P | 93-07-112 | 388-15-203 | NEW | 93-06-042 |
| 365-195-620 | AMD | 93-17-040 | 365-300-050 | NEW | 93-11-039 | 388-15-204 | NEW-C | 93-04-023 |
| 365-195-700 | AMD-P | 93-13-138 | 365-300-060 | NEW-E | 93-07-063 | 388-15-204 | NEW | 93-06-042 |
| 365-195-700 | AMD | 93-17-040 | 365-300-060 | NEW-P | 93-07-112 | 388-15-205 | NEW-C | 93-04-023 |
| 365-195-705 | NEW-P | 93-13-138 | 365-300-060 | NEW | 93-11-039 | 388-15-205 | NEW | 93-06-042 |
| 365-195-705 | NEW | 93-17-040 | 365-300-070 | NEW-E | 93-07-063 | 388-15-207 | AMD | 93-04-036 |
| 365-195-710 | AMD-P | 93-13-138 | 365-300-070 | NEW-P | 93-07-112 | 388-15-208 | AMD | 93-04-036 |
| 365-195-710 | AMD | 93-17-040 | 365-300-070 | NEW | 93-11-039 | 388-15-209 | AMD | 93-04-036 |
| 365-195-715 | NEW-P | 93-13-138 | 365-300-081 | NEW-E | 93-07-063 | 388-15-212 | AMD | 93-04-036 |
| 365-195-715 | NEW | 93-17-040 | 365-300-081 | NEW-P | 93-07-112 | 388-15-213 | AMD | 93-04-036 |
| 365-195-720 | AMD-P | 93-13-138 | 365-300-081 | NEW | 93-11-039 | 388-15-214 | AMD | 93-04-036 |
| 365-195-720 | AMD | 93-17-040 | 365-300-090 | NEW-E | 93-07-063 | 388-15-215 | AMD | 93-04-036 |
| 365-195-725 | NEW-P | 93-13-138 | 365-300-090 | NEW-P | 93-07-112 | 388-15-216 | AMD | 93-04-036 |
| 365-195-725 | NEW | 93-17-040 | 365-300-090 | NEW | 93-11-039 | 388-15-217 | AMD | 93-04-036 |
| 365-195-730 | NEW-P | 93-13-138 | 374-60-020 | AMD | 93-04-041 | 388-15-600 | AMD-P | 93-11-085 |
| 365-195-730 | NEW | 93-17-040 | 374-60-060 | AMD | 93-04-041 | 388-15-600 | AMD | 93-13-135 |
| 365-195-735 | NEW-P | 93-13-138 | 374-60-070 | AMD | 93-04-041 | 388-15-610 | AMD-P | 93-11-085 |
| 365-195-735 | NEW | 93-17-040 | 374-60-120 | AMD | 93-04-041 | 388-15-610 | AMD | 93-13-135 |
| 365-195-740 | NEW-P | 93-13-138 | 381-30-010 | AMD | 93-23-077 | 388-15-615 | AMD-P | 93-11-085 |
| 365-195-740 | NEW | 93-17-040 | 381-40-010 | AMD | 93-23-077 | 388-15-615 | AMD | 93-13-135 |
| 365-195-745 | NEW-P | 93-13-138 | 381-40-120 | AMD | 93-23-077 | 388-15-620 | AMD-P | 93-11-085 |
| 365-195-745 | NEW | 93-17-040 | 381-50-010 | AMD | 93-23-077 | 388-15-620 | AMD | 93-13-135 |
| 365-195-750 | NEW-P | 93-13-138 | 381-60-010 | AMD | 93-23-077 | 388-15-630 | AMD-P | 93-11-085 |
| 365-195-750 | NEW | 93-17-040 | 381-70-010 | AMD | 93-23-077 | 388-15-630 | AMD | 93-13-135 |
| 365-195-755 | NEW-P | 93-13-138 | 381-70-050 | AMD | 93-23-077 | 388-15-820 | AMD-P | 93-07-071 |
| 365-195-755 | NEW | 93-17-040 | 381-80-010 | AMD | 93-23-077 | 388-15-820 | AMD | 93-10-023 |
| 365-195-760 | NEW-P | 93-13-138 | 381-80-050 | AMD | 93-23-077 | 388-15-830 | AMD-P | 93-07-071 |

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| 388-15-840 | AMD-P | 93-07-071 | 388-34-010 | REP | 93-19-134 | 388-34-372 | REP-P | 93-06-040 |
| 388-15-840 | AMD | 93-10-023 | 388-34-015 | REP-P | 93-06-040 | 388-34-372 | REP-W | 93-08-113 |
| 388-15-850 | AMD-P | 93-07-071 | 388-34-015 | REP-W | 93-08-113 | 388-34-372 | REP-P | 93-16-106 |
| 388-15-850 | AMD | 93-10-023 | 388-34-015 | REP-P | 93-16-106 | 388-34-372 | REP | 93-19-134 |
| 388-15-860 | AMD-P | 93-07-071 | 388-34-015 | REP | 93-19-134 | 388-34-374 | REP-P | 93-06-040 |
| 388-15-860 | AMD | 93-10-023 | 388-34-020 | REP-P | 93-06-040 | 388-34-374 | REP-W | 93-08-113 |
| 388-15-870 | AMD-P | 93-07-071 | 388-34-020 | REP-W | 93-08-113 | 388-34-374 | REP-P | 93-16-106 |
| 388-15-870 | AMD | 93-10-023 | 388-34-020 | REP-P | 93-16-106 | 388-34-374 | REP | 93-19-134 |
| 388-15-880 | AMD-P | 93-07-071 | 388-34-020 | REP | 93-19-134 | 388-34-375 | REP-P | 93-06-040 |
| 388-15-880 | AMD | 93-10-023 | 388-34-025 | REP-P | 93-06-040 | 388-34-375 | REP-W | 93-08-113 |
| 388-15-890 | NEW-P | 93-07-071 | 388-34-025 | REP-W | 93-08-113 | 388-34-375 | REP-P | 93-16-106 |
| 388-15-890 | NEW | 93-10-023 | 388-34-025 | REP-P | 93-16-106 | 388-34-375 | REP | 93-19-134 |
| 388-21-005 | NEW | 93-04-037 | 388-34-025 | REP | 93-19-134 | 388-34-376 | REP-P | 93-06-040 |
| 388-24-050 | AMD-P | 93-16-056 | 388-34-035 | REP-P | 93-06-040 | 388-34-376 | REP-W | 93-08-113 |
| 388-24-050 | AMD | 93-19-038 | 388-34-035 | REP-W | 93-08-113 | 388-34-376 | REP-P | 93-16-106 |
| 388-24-074 | AMD-P | 93-03-055 | 388-34-035 | REP-P | 93-16-106 | 388-34-376 | REP | 93-19-134 |
| 388-24-074 | AMD | 93-12-055 | 388-34-035 | REP | 93-19-134 | 388-34-376 | REP-P | 93-06-040 |
| 388-24-111 | AMD-P | 94-01-042 | 388-34-040 | REP-P | 93-06-040 | 388-34-378 | REP-W | 93-08-113 |
| 388-24-253 | AMD-P | 93-04-035 | 388-34-040 | REP-W | 93-08-113 | 388-34-378 | REP-P | 93-16-106 |
| 388-24-253 | AMD | 93-07-034 | 388-34-040 | REP-P | 93-16-106 | 388-34-378 | REP | 93-19-134 |
| 388-28-370 | REP-P | 94-01-139 | 388-34-040 | REP | 93-19-134 | 388-34-380 | REP-P | 93-06-040 |
| 388-28-392 | AMD | 93-04-028 | 388-34-045 | REP-P | 93-06-040 | 388-34-380 | REP-W | 93-08-113 |
| 388-28-425 | AMD-P | 93-03-056 | 388-34-045 | REP-W | 93-08-113 | 388-34-380 | REP-P | 93-16-106 |
| 388-28-425 | AMD | 93-12-056 | 388-34-045 | REP-P | 93-16-106 | 388-34-380 | REP | 93-19-134 |
| 388-28-435 | AMD-P | 93-05-004 | 388-34-045 | REP | 93-19-134 | 388-34-384 | REP-P | 93-06-040 |
| 388-28-435 | AMD | 93-07-126 | 388-34-055 | REP-P | 93-06-040 | 388-34-384 | REP-W | 93-08-113 |
| 388-28-457 | REP-P | 94-01-139 | 388-34-055 | REP-W | 93-08-113 | 388-34-384 | REP-P | 93-16-106 |
| 388-28-458 | REP-P | 94-01-139 | 388-34-055 | REP-P | 93-16-106 | 388-34-384 | REP | 93-19-134 |
| 388-28-459 | REP-P | 94-01-139 | 388-34-055 | REP | 93-19-134 | 388-37 | REP-C | 93-12-050 |
| 388-28-460 | REP-P | 94-01-139 | 388-34-085 | REP-P | 93-06-040 | 388-37 | REP-C | 93-13-022 |
| 388-28-461 | REP-P | 94-01-139 | 388-34-085 | REP-W | 93-08-113 | 388-37 | REP-C | 93-14-085 |
| 388-28-462 | REP-P | 94-01-139 | 388-34-085 | REP-P | 93-16-106 | 388-37-010 | REP-P | 93-08-074 |
| 388-28-463 | REP-P | 94-01-139 | 388-34-085 | REP | 93-19-134 | 388-37-010 | REP | 93-16-058 |
| 388-28-464 | REP-P | 94-01-139 | 388-34-095 | REP-P | 93-06-040 | 388-37-020 | REP-P | 93-08-074 |
| 388-28-465 | REP-P | 94-01-139 | 388-34-095 | REP-W | 93-08-113 | 388-37-020 | REP | 93-16-058 |
| 388-28-470 | REP-P | 94-01-139 | 388-34-095 | REP-P | 93-16-106 | 388-37-021 | REP-P | 93-08-074 |
| 388-28-471 | REP-P | 94-01-139 | 388-34-095 | REP | 93-19-134 | 388-37-021 | REP | 93-16-058 |
| 388-28-472 | REP-P | 94-01-139 | 388-34-110 | REP-P | 93-06-040 | 388-37-025 | REP-P | 93-08-074 |
| 388-28-473 | REP-P | 94-01-139 | 388-34-110 | REP-W | 93-08-113 | 388-37-025 | REP | 93-16-058 |
| 388-28-485 | AMD-P | 93-07-072 | 388-34-110 | REP-P | 93-16-106 | 388-37-029 | REP-P | 93-08-074 |
| 388-28-485 | AMD | 93-10-022 | 388-34-110 | REP | 93-19-134 | 388-37-029 | REP | 93-16-058 |
| 388-28-500 | AMD-P | 93-15-070 | 388-34-120 | REP-P | 93-06-040 | 388-37-030 | REP-P | 93-08-074 |
| 388-28-500 | AMD | 93-19-036 | 388-34-120 | REP-W | 93-08-113 | 388-37-030 | REP | 93-16-058 |
| 388-28-560 | AMD-P | 93-15-070 | 388-34-120 | REP-P | 93-16-106 | 388-37-032 | REP-P | 93-08-074 |
| 388-28-560 | AMD | 93-19-036 | 388-34-120 | REP | 93-19-134 | 388-37-032 | REP | 93-16-058 |
| 388-28-570 | AMD-P | 93-03-057 | 388-34-125 | REP-P | 93-06-040 | 388-37-035 | REP-P | 93-08-074 |
| 388-28-570 | AMD | 93-12-057 | 388-34-125 | REP-W | 93-08-113 | 388-37-035 | REP | 93-16-058 |
| 388-28-575 | AMD-P | 93-04-027 | 388-34-125 | REP-P | 93-16-106 | 388-37-037 | REP-P | 93-08-074 |
| 388-28-575 | AMD | 93-07-031 | 388-34-125 | REP | 93-19-134 | 388-37-037 | REP | 93-16-058 |
| 388-28-575 | AMD-P | 93-14-013 | 388-34-140 | REP-P | 93-06-040 | 388-37-038 | REP-P | 93-08-074 |
| 388-28-575 | AMD-E | 93-14-014 | 388-34-140 | REP-W | 93-08-113 | 388-37-038 | REP | 93-16-058 |
| 388-28-575 | AMD | 93-17-031 | 388-34-140 | REP-P | 93-16-106 | 388-37-039 | REP-P | 93-08-074 |
| 388-28-590 | AMD-P | 93-04-026 | 388-34-140 | REP | 93-19-134 | 388-37-039 | REP | 93-16-058 |
| 388-28-590 | AMD | 93-07-032 | 388-34-150 | REP-P | 93-06-040 | 388-37-040 | REP-P | 93-08-074 |
| 388-29-100 | AMD | 93-04-030 | 388-34-150 | REP-W | 93-08-113 | 388-37-040 | REP | 93-16-058 |
| 388-29-100 | AMD-P | 93-15-047 | 388-34-150 | REP-P | 93-16-106 | 388-37-045 | NEW-C | 93-04-025 |
| 388-29-100 | AMD-E | 93-18-023 | 388-34-150 | REP | 93-19-134 | 388-37-045 | NEW | 93-06-073 |
| 388-29-100 | AMD | 93-18-026 | 388-34-160 | REP-P | 93-06-040 | 388-37-045 | REP-P | 93-08-074 |
| 388-29-110 | AMD | 93-04-030 | 388-34-160 | REP-W | 93-08-113 | 388-37-045 | REP | 93-16-058 |
| 388-29-112 | AMD | 93-04-030 | 388-34-160 | REP-P | 93-16-106 | 388-37-050 | AMD-C | 93-04-025 |
| 388-29-130 | AMD-P | 93-09-017 | 388-34-160 | REP | 93-19-134 | 388-37-050 | AMD | 93-06-073 |
| 388-29-130 | AMD | 93-12-052 | 388-34-165 | REP-P | 93-06-040 | 388-37-050 | REP-P | 93-08-074 |
| 388-29-160 | AMD | 93-04-030 | 388-34-165 | REP-W | 93-08-113 | 388-37-050 | REP | 93-16-058 |
| 388-29-220 | AMD | 93-04-030 | 388-34-165 | REP-P | 93-16-106 | 388-37-100 | REP-P | 93-08-074 |
| 388-29-280 | AMD-P | 93-09-017 | 388-34-165 | REP | 93-19-134 | 388-37-100 | REP | 93-16-058 |
| 388-29-280 | AMD | 93-12-052 | 388-34-180 | REP-P | 93-06-040 | 388-37-110 | REP-P | 93-08-074 |
| 388-29-295 | AMD | 93-04-030 | 388-34-180 | REP-W | 93-08-113 | 388-37-110 | REP | 93-16-058 |
| 388-29-295 | AMD-P | 94-01-118 | 388-34-180 | REP-P | 93-16-106 | 388-37-115 | REP-P | 93-08-074 |
| 388-31-035 | AMD-P | 93-13-018 | 388-34-180 | REP | 93-19-134 | 388-37-115 | REP | 93-16-058 |
| 388-31-035 | AMD | 93-16-043 | 388-34-370 | REP-P | 93-06-040 | 388-37-120 | REP-P | 93-08-074 |
| 388-34-010 | REP-P | 93-06-040 | 388-34-370 | REP-W | 93-08-113 | 388-37-120 | REP | 93-16-058 |
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| 388-37-135 | REP-P | 93-08-074 | 388-42-025 | REP-E | 93-11-083 | 388-49-200 | AMD | 93-11-042 |
| 388-37-135 | REP | 93-16-058 | 388-42-025 | REP-P | 93-11-084 | 388-49-220 | AMD-P | 93-08-040 |
| 388-37-140 | REP-P | 93-08-074 | 388-42-025 | REP | 93-13-134 | 388-49-220 | AMD | 93-11-043 |
| 388-37-140 | REP | 93-16-058 | 388-42-030 | REP-E | 93-11-083 | 388-49-430 | AMD-P | 93-13-053 |
| 388-37-150 | REP-P | 93-08-074 | 388-42-030 | REP-P | 93-11-084 | 388-49-430 | AMD | 93-16-044 |
| 388-37-150 | REP | 93-16-058 | 388-42-030 | REP | 93-13-134 | 388-49-450 | AMD-P | 93-14-044 |
| 388-37-160 | REP-P | 93-08-074 | 388-42-040 | REP-E | 93-11-083 | 388-49-450 | AMD-E | 93-14-049 |
| 388-37-160 | REP | 93-16-058 | 388-42-040 | REP-P | 93-11-084 | 388-49-450 | AMD | 93-17-032 |
| 388-37-170 | REP-P | 93-08-074 | 388-42-040 | REP | 93-13-134 | 388-49-470 | AMD-P | 93-14-044 |
| 388-37-170 | REP | 93-16-058 | 388-42-100 | REP-E | 93-11-083 | 388-49-470 | AMD-E | 93-14-049 |
| 388-37-180 | REP-P | 93-08-074 | 388-42-100 | REP-P | 93-11-084 | 388-49-470 | AMD | 93-17-032 |
| 388-37-180 | REP | 93-16-058 | 388-42-100 | REP | 93-13-134 | 388-49-500 | AMD-P | 93-20-048 |
| 388-37-190 | REP-P | 93-08-074 | 388-42-110 | REP-E | 93-11-083 | 388-49-500 | AMD-E | 93-20-049 |
| 388-37-190 | REP | 93-16-058 | 388-42-110 | REP-P | 93-11-084 | 388-49-500 | AMD | 93-23-033 |
| 388-37-300 | REP-P | 93-08-074 | 388-42-110 | REP | 93-13-134 | 388-49-505 | AMD-P | 93-15-060 |
| 388-37-300 | REP | 93-16-058 | 388-42-115 | REP-E | 93-11-083 | 388-49-505 | AMD | 93-18-024 |
| 388-37-310 | REP-P | 93-08-074 | 388-42-115 | REP-P | 93-11-084 | 388-49-510 | AMD-P | 93-20-048 |
| 388-37-310 | REP | 93-16-058 | 388-42-115 | REP | 93-13-134 | 388-49-510 | AMD-E | 93-20-049 |
| 388-37-320 | REP-P | 93-08-074 | 388-42-125 | REP-E | 93-11-083 | 388-49-510 | AMD | 93-23-033 |
| 388-37-320 | REP | 93-16-058 | 388-42-125 | REP-P | 93-11-084 | 388-49-520 | AMD-P | 93-14-025 |
| 388-37-330 | REP-P | 93-08-074 | 388-42-125 | REP | 93-13-134 | 388-49-520 | AMD-E | 93-14-030 |
| 388-37-330 | REP | 93-16-058 | 388-42-150 | AMD | 93-05-021 | 388-49-520 | AMD | 93-17-030 |
| 388-37-340 | REP-P | 93-08-074 | 388-42-150 | REP-E | 93-11-083 | 388-49-535 | AMD-P | 93-14-025 |
| 388-37-340 | REP | 93-16-058 | 388-42-150 | REP-P | 93-11-084 | 388-49-535 | AMD-E | 93-14-030 |
| 388-37-350 | REP-P | 93-08-074 | 388-42-150 | REP | 93-13-134 | 388-49-535 | AMD | 93-17-030 |
| 388-37-350 | REP | 93-16-058 | 388-43-001 | NEW-P | 93-21-079 | 388-49-550 | AMD-E | 93-19-085 |
| 388-37-360 | REP-P | 93-08-074 | 388-43-001 | NEW-E | 93-21-080 | 388-49-550 | AMD-P | 93-19-087 |
| 388-37-360 | REP | 93-16-058 | 388-43-002 | NEW-P | 93-21-079 | 388-49-550 | AMD | 93-22-028 |
| 388-37-370 | REP-P | 93-08-074 | 388-43-002 | NEW-E | 93-21-080 | 388-49-560 | AMD | 93-04-069 |
| 388-37-370 | REP | 93-16-058 | 388-43-003 | NEW-P | 93-21-079 | 388-49-560 | AMD-E | 93-19-084 |
| 388-37-380 | REP-P | 93-08-074 | 388-43-003 | NEW-E | 93-21-080 | 388-49-560 | AMD-P | 93-19-088 |
| 388-37-380 | REP | 93-16-058 | 388-43-005 | NEW-P | 93-21-079 | 388-49-560 | AMD | 93-22-027 |
| 388-40-010 | REP-P | 93-15-080 | 388-43-005 | NEW-E | 93-21-080 | 388-49-610 | AMD-P | 93-11-024 |
| 388-40-010 | REP | 93-19-039 | 388-43-010 | NEW-P | 93-21-079 | 388-49-610 | AMD | 93-13-133 |
| 388-40-020 | REP-P | 93-15-080 | 388-43-010 | NEW-E | 93-21-080 | 388-49-700 | AMD | 93-04-034 |
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| 388-40-030 | REP-P | 93-15-080 | 388-43-020 | NEW-E | 93-21-080 | 388-51-020 | AMD | 93-12-059 |
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| 388-40-040 | REP-P | 93-15-080 | 388-43-030 | NEW-E | 93-21-080 | 388-51-040 | AMD | 93-12-059 |
| 388-40-040 | REP | 93-19-039 | 388-43-040 | NEW-P | 93-21-079 | 388-51-110 | AMD-P | 93-07-073 |
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| 388-40-050 | REP | 93-19-039 | 388-43-050 | NEW-P | 93-21-079 | 388-51-115 | AMD-P | 93-07-073 |
| 388-40-055 | REP-P | 93-15-080 | 388-43-050 | NEW-E | 93-21-080 | 388-51-115 | AMD | 93-12-059 |
| 388-40-055 | REP | 93-19-039 | 388-43-060 | NEW-P | 93-21-079 | 388-51-120 | AMD-P | 93-07-073 |
| 388-40-060 | REP-P | 93-15-080 | 388-43-060 | NEW-E | 93-21-080 | 388-51-120 | AMD | 93-12-059 |
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| 388-40-070 | REP-P | 93-15-080 | 388-43-070 | NEW-E | 93-21-080 | 388-51-123 | AMD | 93-12-059 |
| 388-40-070 | REP | 93-19-039 | 388-43-080 | NEW-P | 93-21-079 | 388-51-125 | REP-P | 93-07-073 |
| 388-40-080 | REP-P | 93-15-080 | 388-43-080 | NEW-E | 93-21-080 | 388-51-125 | REP | 93-12-059 |
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| 388-40-090 | REP-P | 93-15-080 | 388-43-090 | NEW-E | 93-21-080 | 388-51-130 | AMD | 93-12-059 |
| 388-40-090 | REP | 93-19-039 | 388-43-100 | NEW-P | 93-21-079 | 388-51-135 | AMD-P | 93-07-073 |
| 388-40-091 | REP-P | 93-15-080 | 388-43-100 | NEW-E | 93-21-080 | 388-51-135 | AMD | 93-12-059 |
| 388-40-091 | REP | 93-19-039 | 388-43-110 | NEW-P | 93-21-079 | 388-51-150 | REP-P | 93-07-073 |
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| 388-40-095 | REP | 93-19-039 | 388-43-120 | NEW-P | 94-01-080 | 388-51-155 | NEW-P | 93-07-073 |
| 388-40-100 | REP-P | 93-15-080 | 388-47-115 | AMD-P | 93-03-058 | 388-51-155 | NEW | 93-12-059 |
| 388-40-100 | REP | 93-19-039 | 388-47-115 | AMD | 93-12-060 | 388-51-160 | NEW-P | 93-07-073 |
| 388-40-110 | REP-P | 93-15-080 | 388-49-015 | AMD-E | 93-11-029 | 388-51-160 | NEW | 93-12-059 |
| 388-40-110 | REP | 93-19-039 | 388-49-015 | AMD-P | 93-11-030 | 388-51-170 | NEW-P | 93-07-073 |
| 388-41-001 | NEW-P | 93-21-042 | 388-49-015 | AMD | 93-13-132 | 388-51-170 | NEW | 93-12-059 |
| 388-41-001 | NEW | 93-24-058 | 388-49-020 | AMD-P | 93-08-038 | 388-51-180 | NEW-P | 93-07-073 |
| 388-41-003 | NEW-P | 93-21-042 | 388-49-020 | AMD | 93-11-041 | 388-51-180 | NEW | 93-12-059 |
| 388-41-003 | NEW | 93-24-058 | 388-49-060 | AMD-P | 93-22-025 | 388-51-200 | REP-P | 93-07-073 |
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| 388-41-010 | NEW | 93-24-058 | 388-49-060 | AMD | 94-01-066 | 388-51-210 | NEW-P | 93-07-073 |
| 388-41-020 | NEW-P | 93-21-042 | 388-49-080 | AMD-P | 93-19-099 | 388-51-210 | NEW | 93-12-059 |
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| 388-42-020 | REP-E | 93-11-083 | 388-49-120 | AMD-P | 93-07-075 | 388-51-260 | NEW-P | 93-07-073 |
| 388-42-020 | REP-P | 93-11-084 | 388-49-120 | AMD-C | 93-10-019 | 388-51-260 | NEW | 93-12-059 |
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| 388-53-010 | REP-P | 94-01-011 | 388-81-047 | AMD-E | 93-16-046 | 388-83-130 | AMD-P | 93-16-054 |
| 388-53-050 | REP-P | 94-01-011 | 388-81-060 | AMD | 93-04-024 | 388-83-130 | AMD-E | 93-16-055 |
| 388-59-010 | REP-P | 94-01-138 | 388-81-065 | NEW-E | 93-13-121 | 388-83-130 | AMD | 93-19-037 |
| 388-59-020 | REP-P | 94-01-138 | 388-81-065 | NEW-P | 93-13-123 | 388-83-130 | AMD | 93-19-083 |
| 388-59-030 | REP-P | 94-01-138 | 388-81-065 | NEW | 93-16-036 | 388-83-200 | AMD-P | 93-07-123 |
| 388-59-040 | REP-P | 94-01-138 | 388-81-065 | RESCIND | 93-16-047 | 388-83-200 | AMD | 93-11-044 |
| 388-59-045 | REP-P | 94-01-138 | 388-81-100 | NEW-P | 93-07-124 | 388-83-210 | AMD-P | 93-07-123 |
| 388-59-048 | REP-P | 94-01-138 | 388-81-100 | NEW | 93-11-047 | 388-83-210 | AMD | 93-11-044 |
| 388-59-050 | REP-P | 94-01-138 | 388-81-175 | NEW-P | 93-21-041 | 388-83-220 | AMD-P | 93-07-123 |
| 388-59-060 | REP-P | 94-01-138 | 388-81-175 | NEW | 93-24-059 | 388-83-220 | AMD | 93-11-044 |
| 388-59-070 | REP-P | 94-01-138 | 388-81-200 | NEW-P | 93-21-041 | 388-84-105 | AMD-P | 93-03-060 |
| 388-59-080 | REP-P | 94-01-138 | 388-81-200 | NEW | 93-24-059 | 388-84-105 | AMD-E | 93-03-061 |
| 388-59-090 | REP-P | 94-01-138 | 388-82-010 | AMD | 93-04-033 | 388-84-105 | AMD | 93-06-037 |
| 388-59-100 | REP-P | 94-01-138 | 388-82-115 | AMD-P | 93-03-060 | 388-84-105 | AMD-P | 93-18-035 |
| 388-60-005 | NEW-P | 93-06-082 | 388-82-115 | AMD-E | 93-03-061 | 388-84-105 | AMD | 93-21-001 |
| 388-60-005 | NEW | 93-10-024 | 388-82-115 | AMD | 93-06-037 | 388-84-110 | AMD-P | 93-18-035 |
| 388-60-120 | NEW-P | 93-06-082 | 388-82-140 | AMD-P | 93-08-022 | 388-84-110 | AMD | 93-21-001 |
| 388-60-120 | NEW | 93-10-024 | 388-82-140 | AMD-E | 93-08-023 | 388-84-115 | AMD-P | 93-13-122 |
| 388-60-130 | NEW-P | 93-06-082 | 388-82-140 | AMD | 93-11-049 | 388-84-115 | AMD | 93-16-041 |
| 388-60-130 | NEW | 93-10-024 | 388-82-150 | NEW | 93-04-024 | 388-86-005 | AMD-P | 93-14-027 |
| 388-60-140 | NEW-P | 93-06-082 | 388-82-150 | AMD-P | 93-08-022 | 388-86-005 | AMD-E | 93-14-031 |
| 388-60-140 | NEW | 93-10-024 | 388-82-150 | AMD-E | 93-08-023 | 388-86-005 | AMD | 93-17-038 |
| 388-60-150 | NEW-P | 93-06-082 | 388-82-150 | AMD | 93-11-049 | 388-86-008 | REP-P | 93-07-124 |
| 388-60-150 | NEW | 93-10-024 | 388-82-160 | AMD-P | 93-08-022 | 388-86-008 | REP | 93-11-047 |
| 388-60-160 | NEW-P | 93-06-082 | 388-82-160 | AMD-E | 93-08-023 | 388-86-00902 | AMD-P | 93-14-046 |
| 388-60-160 | NEW | 93-10-024 | 388-82-160 | AMD | 93-11-049 | 388-86-00902 | AMD-E | 93-14-047 |
| 388-60-170 | NEW-P | 93-06-082 | 388-83-006 | AMD-P | 93-14-027 | 388-86-00902 | AMD | 93-17-039 |
| 388-60-170 | NEW | 93-10-024 | 388-83-006 | AMD-E | 93-14-031 | 388-86-012 | AMD-P | 93-03-034 |
| 388-60-180 | NEW-P | 93-06-082 | 388-83-006 | AMD | 93-17-038 | 388-86-012 | AMD | 93-06-039 |
| 388-60-180 | NEW | 93-10-024 | 388-83-012 | AMD-P | 93-19-086 | 388-86-021 | AMD-P | 93-08-006 |
| 388-62-020 | REP-P | 93-08-075 | 388-83-012 | AMD | 93-22-030 | 388-86-021 | AMD | 93-11-048 |
| 388-62-020 | REP | 93-12-054 | 388-83-015 | AMD-P | 93-06-009 | 388-86-022 | AMD-E | 93-18-038 |
| 388-62-025 | REP-P | 93-08-075 | 388-83-015 | AMD-E | 93-06-010 | 388-86-022 | AMD-P | 93-18-039 |
| 388-62-025 | REP | 93-12-054 | 388-83-015 | AMD | 93-08-111 | 388-86-022 | AMD | 93-21-002 |
| 388-62-035 | REP-P | 93-08-075 | 388-83-015 | AMD-P | 93-13-079 | 388-86-024 | AMD-P | 93-14-027 |
| 388-62-035 | REP | 93-12-054 | 388-83-015 | AMD-E | 93-13-082 | 388-86-024 | AMD-E | 93-14-031 |
| 388-62-070 | REP-P | 93-08-075 | 388-83-015 | AMD | 93-16-042 | 388-86-024 | AMD | 93-17-038 |
| 388-62-070 | REP | 93-12-054 | 388-83-017 | AMD-P | 93-15-046 | 388-86-030 | AMD-P | 94-01-081 |
| 388-62-075 | REP-P | 93-08-075 | 388-83-017 | AMD | 93-18-025 | 388-86-035 | AMD-P | 93-13-069 |
| 388-62-075 | REP | 93-12-054 | 388-83-020 | AMD-P | 93-15-046 | 388-86-035 | AMD | 93-16-035 |
| 388-62-080 | REP-P | 93-08-075 | 388-83-020 | AMD | 93-18-025 | 388-86-045 | AMD-P | 93-19-096 |
| 388-62-080 | REP | 93-12-054 | 388-83-026 | AMD-P | 93-03-026 | 388-86-045 | AMD-E | 93-19-097 |
| 388-62-095 | REP-P | 93-08-075 | 388-83-026 | AMD-E | 93-03-028 | 388-86-045 | AMD-C | 93-22-024 |
| 388-62-095 | REP | 93-12-054 | 388-83-026 | AMD | 93-06-038 | 388-86-045 | AMD-C | 94-01-147 |
| 388-62-135 | REP-P | 93-08-075 | 388-83-029 | AMD-P | 93-11-067 | 388-86-047 | AMD-P | 93-13-024 |
| 388-62-135 | REP | 93-12-054 | 388-83-029 | AMD | 93-13-131 | 388-86-047 | AMD-E | 93-13-129 |
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| 388-74-030 | NEW | 93-12-053 | 388-83-033 | AMD-P | 93-08-022 | 388-86-090 | AMD | 94-01-065 |
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| 388-77A-010 | NEW | 93-12-058 | 388-83-033 | AMD | 93-11-049 | 388-86-098 | AMD-E | 93-22-049 |
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| 388-88-080 | REP-W | 93-18-084 | 388-88-180 | NEW-W | 93-18-084 | 388-96-026 | AMD | 93-12-051 |
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| 388-88-102 | REP-W | 93-18-084 | 388-92-043 | REP-E | 93-20-050 | 388-96-529 | AMD | 93-19-074 |
| 388-88-102 | RESCIND | 93-18-085 | 388-92-043 | REP-P | 93-20-055 | 388-96-531 | AMD-P | 93-14-078 |
| 388-88-102 | REP-P | 93-18-086 | 388-92-043 | REP | 93-23-032 | 388-96-531 | AMD-E | 93-14-079 |
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| 388-88-130 | RESCIND | 93-18-085 | 388-92-045 | AMD-E | 93-24-056 | 388-96-535 | AMD-P | 93-14-078 |
| 388-88-130 | REP-P | 93-18-086 | 388-95-310 | NEW-P | 93-06-040 | 388-96-535 | AMD-E | 93-14-079 |
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| 388-96-580 | AMD | 93-19-074 | 388-99-020 | AMD-E | 93-04-087 | 388-160 | NEW-C | 93-13-025 |
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| 388-96-713 | AMD | 93-19-074 | 388-99-055 | AMD | 93-19-135 | 388-160-070 | NEW | 93-15-124 |
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| 388-96-737 | NEW-E | 93-14-079 | 388-150-160 | AMD | 93-18-001 | 388-160-150 | NEW | 93-15-124 |
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| 388-96-774 | AMD-P | 93-08-065 | 388-150-340 | AMD | 93-18-001 | 388-160-290 | NEW | 93-15-124 |
| 388-96-774 | AMD | 93-12-051 | 388-150-390 | AMD-P | 93-13-056 | 388-160-300 | NEW-P | 93-05-031 |
| 388-96-774 | AMD-P | 93-14-075 | 388-150-390 | AMD | 93-18-001 | 388-160-300 | NEW | 93-15-124 |
| 388-96-774 | AMD-E | 93-14-077 | 388-150-460 | AMD-P | 93-13-056 | 388-160-310 | NEW-P | 93-05-031 |
| 388-96-774 | AMD | 93-17-033 | 388-150-460 | AMD | 93-18-001 | 388-160-310 | NEW | 93-15-124 |
| 388-96-775 | REP-P | 93-14-078 | 388-150-470 | AMD-P | 93-13-056 | 388-160-320 | NEW-P | 93-05-031 |
| 388-96-775 | REP-E | 93-14-079 | 388-150-470 | AMD | 93-18-001 | 388-160-320 | NEW | 93-15-124 |
| 388-96-775 | REP | 93-19-074 | 388-150-490 | AMD-P | 93-13-056 | 388-160-340 | NEW-P | 93-05-031 |
| 388-96-775 | REP | 93-19-074 | 388-150-490 | AMD | 93-18-001 | 388-160-340 | NEW | 93-15-124 |
| 388-99-010 | AMD-P | 93-03-060 | 388-150-500 | AMD-P | 93-13-056 | 388-160-350 | NEW-P | 93-05-031 |

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| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
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| 388-160-350 | NEW | 93-15-124 | 388-233-0010 | NEW-E | 93-14-007 | 388-235-5090 | NEW | 93-16-058 |
| 388-160-360 | NEW-P | 93-05-031 | 388-233-0010 | NEW | 93-17-029 | 388-235-5100 | NEW-P | 93-08-074 |
| 388-160-360 | NEW | 93-15-124 | 388-233-0020 | NEW-P | 93-14-006 | 388-235-5100 | NEW | 93-16-058 |
| 388-160-370 | NEW-P | 93-05-031 | 388-233-0020 | NEW-E | 93-14-007 | 388-235-5200 | NEW-P | 93-08-074 |
| 388-160-370 | NEW | 93-15-124 | 388-233-0020 | NEW | 93-17-029 | 388-235-5200 | NEW | 93-16-058 |
| 388-160-380 | NEW-P | 93-05-031 | 388-233-0030 | NEW-P | 93-14-006 | 388-235-5300 | NEW-P | 93-08-074 |
| 388-160-380 | NEW | 93-15-124 | 388-233-0030 | NEW-E | 93-14-007 | 388-235-5300 | NEW | 93-16-058 |
| 388-160-390 | NEW-P | 93-05-031 | 388-233-0030 | NEW | 93-17-029 | 388-235-5400 | NEW-P | 93-08-074 |
| 388-160-390 | NEW | 93-15-124 | 388-233-0040 | NEW-P | 93-14-006 | 388-235-5400 | NEW | 93-16-058 |
| 388-160-400 | NEW-P | 93-05-031 | 388-233-0040 | NEW-E | 93-14-007 | 388-235-5500 | NEW-P | 93-08-074 |
| 388-160-400 | NEW | 93-15-124 | 388-233-0040 | NEW | 93-17-029 | 388-235-5500 | NEW | 93-16-058 |
| 388-160-410 | NEW-P | 93-05-031 | 388-233-0050 | NEW-P | 93-14-006 | 388-235-5600 | NEW-P | 93-08-074 |
| 388-160-410 | NEW | 93-15-124 | 388-233-0050 | NEW-E | 93-14-007 | 388-235-5600 | NEW | 93-16-058 |
| 388-160-420 | NEW-P | 93-05-031 | 388-233-0050 | NEW | 93-17-029 | 388-235-5700 | NEW-P | 93-08-074 |
| 388-160-420 | NEW | 93-15-124 | 388-233-0060 | NEW-P | 93-14-006 | 388-235-5700 | NEW | 93-16-058 |
| 388-160-430 | NEW-P | 93-05-031 | 388-233-0060 | NEW-E | 93-14-007 | 388-235-5800 | NEW-P | 93-08-074 |
| 388-160-430 | NEW | 93-15-124 | 388-233-0060 | NEW | 93-17-029 | 388-235-5800 | NEW | 93-16-058 |
| 388-160-440 | NEW-P | 93-05-031 | 388-233-0070 | NEW-P | 93-14-006 | 388-235-5900 | NEW-P | 93-08-074 |
| 388-160-440 | NEW | 93-15-124 | 388-233-0070 | NEW-E | 93-14-007 | 388-235-5900 | NEW | 93-16-058 |
| 388-160-450 | NEW-P | 93-05-031 | 388-233-0070 | NEW | 93-17-029 | 388-235-6000 | NEW-P | 93-08-074 |
| 388-160-450 | NEW-W | 93-15-123 | 388-233-0080 | NEW-P | 93-14-006 | 388-235-6000 | NEW | 93-16-058 |
| 388-160-460 | NEW-P | 93-05-031 | 388-233-0080 | NEW-E | 93-14-007 | 388-235-7000 | NEW-P | 93-08-074 |
| 388-160-460 | NEW | 93-15-124 | 388-233-0080 | NEW | 93-17-029 | 388-235-7000 | NEW | 93-16-058 |
| 388-160-470 | NEW-P | 93-05-031 | 388-233-0090 | NEW-P | 93-14-006 | 388-235-7100 | NEW-P | 93-08-074 |
| 388-160-470 | NEW | 93-15-124 | 388-233-0090 | NEW-E | 93-14-007 | 388-235-7100 | NEW | 93-16-058 |
| 388-160-480 | NEW-P | 93-05-031 | 388-233-0090 | NEW | 93-17-029 | 388-235-7200 | NEW-P | 93-08-074 |
| 388-160-480 | NEW | 93-15-124 | 388-233-0100 | NEW-P | 93-14-006 | 388-235-7200 | NEW | 93-16-058 |
| 388-160-490 | NEW-P | 93-05-031 | 388-233-0100 | NEW-E | 93-14-007 | 388-235-7300 | NEW-P | 93-08-074 |
| 388-160-490 | NEW | 93-15-124 | 388-233-0100 | NEW | 93-17-029 | 388-235-7300 | NEW | 93-16-058 |
| 388-160-500 | NEW-P | 93-05-031 | 388-235 | NEW-C | 93-12-050 | 388-235-7500 | NEW-P | 93-08-074 |
| 388-160-500 | NEW | 93-15-124 | 388-235 | NEW-C | 93-13-022 | 388-235-7500 | NEW | 93-16-058 |
| 388-160-510 | NEW-P | 93-05-031 | 388-235 | NEW-C | 93-14-085 | 388-235-7600 | NEW-P | 93-08-074 |
| 388-160-510 | NEW | 93-15-124 | 388-235-0010 | NEW-P | 93-08-074 | 388-235-7600 | NEW | 93-16-058 |
| 388-160-520 | NEW-P | 93-05-031 | 388-235-0010 | NEW | 93-16-058 | 388-235-8000 | NEW-P | 93-08-074 |
| 388-160-520 | NEW | 93-15-124 | 388-235-0020 | NEW-P | 93-08-074 | 388-235-8000 | NEW | 93-16-058 |
| 388-160-530 | NEW-P | 93-05-031 | 388-235-0020 | NEW | 93-16-058 | 388-235-8100 | NEW-P | 93-08-074 |
| 388-160-530 | NEW | 93-15-124 | 388-235-0030 | NEW-P | 93-08-074 | 388-235-8100 | NEW | 93-16-058 |
| 388-160-540 | NEW-P | 93-05-031 | 388-235-0030 | NEW | 93-16-058 | 388-235-8130 | NEW-P | 93-08-074 |
| 388-160-540 | NEW | 93-15-124 | 388-235-0040 | NEW-P | 93-08-074 | 388-235-8130 | NEW | 93-16-058 |
| 388-160-560 | NEW-P | 93-05-031 | 388-235-0040 | NEW | 93-16-058 | 388-235-8140 | NEW-P | 93-08-074 |
| 388-160-560 | NEW | 93-15-124 | 388-235-0050 | NEW-P | 93-08-074 | 388-235-8140 | NEW | 93-16-058 |
| 388-217-3000 | NEW-P | 94-01-139 | 388-235-0050 | NEW | 93-16-058 | 388-235-8150 | NEW-P | 93-08-074 |
| 388-217-3050 | NEW-P | 94-01-139 | 388-235-0060 | NEW-P | 93-08-074 | 388-235-8150 | NEW | 93-16-058 |
| 388-217-3100 | NEW-P | 94-01-139 | 388-235-0060 | NEW | 93-16-058 | 388-235-8200 | NEW-P | 93-08-074 |
| 388-217-3150 | NEW-P | 94-01-139 | 388-235-0070 | NEW-P | 93-08-074 | 388-235-8200 | NEW | 93-16-058 |
| 388-217-3200 | NEW-P | 94-01-139 | 388-235-0070 | NEW | 93-16-058 | 388-235-9000 | NEW-P | 93-08-074 |
| 388-217-3250 | NEW-P | 94-01-139 | 388-235-0080 | NEW-P | 93-08-074 | 388-235-9000 | NEW | 93-16-058 |
| 388-217-3300 | NEW-P | 94-01-139 | 388-235-0080 | NEW | 93-16-058 | 388-235-9100 | NEW-P | 93-08-074 |
| 388-217-3350 | NEW-P | 94-01-139 | 388-235-0090 | NEW-P | 93-08-074 | 388-235-9100 | NEW | 93-16-058 |
| 388-230 | NEW-C | 93-12-049 | 388-235-0090 | NEW | 93-16-058 | 388-235-9200 | NEW-P | 93-08-074 |
| 388-230 | NEW-C | 93-13-023 | 388-235-0100 | NEW-P | 93-08-074 | 388-235-9200 | NEW | 93-16-058 |
| 388-230 | NEW-C | 93-14-086 | 388-235-0100 | NEW | 93-16-058 | 388-235-9300 | NEW-P | 93-08-074 |
| 388-230-0010 | NEW-P | 93-08-064 | 388-235-0110 | NEW-P | 93-08-074 | 388-235-9300 | NEW | 93-16-058 |
| 388-230-0010 | NEW | 93-16-059 | 388-235-0110 | NEW | 93-16-058 | 388-235-9500 | NEW-P | 93-08-074 |
| 388-230-0030 | NEW-P | 93-08-064 | 388-235-1500 | NEW-P | 93-08-074 | 388-235-9500 | NEW-W | 93-21-059 |
| 388-230-0030 | NEW | 93-16-059 | 388-235-1500 | NEW | 93-16-058 | 388-235-9520 | NEW-P | 93-08-074 |
| 388-230-0040 | NEW-P | 93-08-064 | 388-235-2000 | NEW-P | 93-08-074 | 388-235-9520 | NEW-W | 93-21-059 |
| 388-230-0040 | NEW | 93-16-059 | 388-235-2000 | NEW | 93-16-058 | 388-235-9530 | NEW-P | 93-08-074 |
| 388-230-0050 | NEW-P | 93-08-064 | 388-235-3000 | NEW-P | 93-08-074 | 388-235-9530 | NEW-W | 93-21-059 |
| 388-230-0050 | NEW | 93-16-059 | 388-235-3000 | NEW | 93-16-058 | 388-235-9540 | NEW-P | 93-08-074 |
| 388-230-0060 | NEW-P | 93-08-064 | 388-235-4000 | NEW-P | 93-08-074 | 388-235-9540 | NEW-W | 93-21-059 |
| 388-230-0060 | NEW | 93-16-059 | 388-235-4000 | NEW | 93-16-058 | 388-235-9550 | NEW-P | 93-08-074 |
| 388-230-0080 | NEW-P | 93-08-064 | 388-235-5000 | NEW-P | 93-08-074 | 388-235-9550 | NEW-W | 93-21-059 |
| 388-230-0080 | NEW | 93-16-059 | 388-235-5000 | NEW | 93-16-058 | 388-235-9560 | NEW-P | 93-08-074 |
| 388-230-0090 | NEW-P | 93-08-064 | 388-235-5040 | NEW-P | 93-08-074 | 388-235-9560 | NEW-W | 93-21-059 |
| 388-230-0090 | NEW | 93-16-059 | 388-235-5050 | NEW-P | 93-08-074 | 388-235-9570 | NEW-P | 93-08-074 |
| 388-230-0110 | NEW-P | 93-08-064 | 388-235-5050 | NEW | 93-16-058 | 388-235-9570 | NEW-W | 93-21-059 |
| 388-230-0110 | NEW | 93-16-059 | 388-235-5060 | NEW | 93-16-058 | 388-235-9580 | NEW-P | 93-08-074 |
| 388-230-0120 | NEW-P | 93-08-064 | 388-235-5070 | NEW-P | 93-08-074 | 388-235-9580 | NEW-W | 93-21-059 |
| 388-230-0120 | NEW | 93-16-059 | 388-235-5070 | NEW | 93-16-058 | 388-235-9600 | NEW-P | 93-08-074 |
| 388-230-0140 | NEW-P | 93-08-064 | 388-235-5080 | NEW-P | 93-08-074 | 388-235-9600 | NEW-W | 93-21-059 |
| 388-230-0140 | NEW | 93-16-059 | 388-235-5080 | NEW | 93-16-058 | 388-240-0010 | NEW-P | 93-15-080 |
| 388-233-0010 | NEW-P | 93-14-006 | 388-235-5090 | NEW-P | 93-08-074 | 388-240-0010 | NEW | 93-19-039 |

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| 388-240-0020 | NEW-P | 93-15-080 | 388-280-1150 | NEW-P | 93-08-075 | 388-539-100 | NEW-E | 93-14-028 |
| 388-240-0020 | NEW | 93-19-039 | 388-280-1150 | NEW | 93-12-054 | 388-539-100 | NEW | 93-17-037 |
| 388-240-1100 | NEW-P | 93-15-080 | 388-280-1160 | NEW-P | 93-08-075 | 388-539-150 | NEW-P | 93-14-024 |
| 388-240-1100 | NEW | 93-19-039 | 388-280-1160 | NEW | 93-12-054 | 388-539-150 | NEW-E | 93-14-028 |
| 388-240-1200 | NEW-P | 93-15-080 | 388-320-350 | AMD-P | 93-21-043 | 388-539-150 | NEW | 93-17-037 |
| 388-240-1200 | NEW | 93-19-039 | 388-320-350 | AMD | 93-24-057 | 388-540-001 | NEW-P | 93-13-001 |
| 388-240-2100 | NEW-P | 93-15-080 | 388-320-400 | AMD-P | 93-21-043 | 388-540-001 | NEW-E | 93-13-130 |
| 388-240-2100 | NEW | 93-19-039 | 388-320-400 | AMD | 93-24-057 | 388-540-001 | NEW | 93-16-039 |
| 388-240-2300 | NEW-P | 93-15-080 | 388-320-450 | AMD-P | 93-21-043 | 388-540-005 | NEW-P | 93-13-001 |
| 388-240-2300 | NEW | 93-19-039 | 388-320-450 | AMD | 93-24-057 | 388-540-005 | NEW-E | 93-13-130 |
| 388-240-2400 | NEW-P | 93-15-080 | 388-330-010 | AMD-P | 93-07-035 | 388-540-005 | NEW | 93-16-039 |
| 388-240-2400 | NEW | 93-19-039 | 388-330-010 | AMD-C | 93-10-018 | 388-540-010 | NEW-P | 93-13-001 |
| 388-240-2450 | NEW-P | 93-15-080 | 388-330-010 | AMD-C | 93-12-096 | 388-540-010 | NEW-E | 93-13-130 |
| 388-240-2450 | NEW | 93-19-039 | 388-330-010 | AMD | 93-15-040 | 388-540-010 | NEW | 93-16-039 |
| 388-240-2500 | NEW-P | 93-15-080 | 388-330-020 | AMD-P | 93-07-035 | 388-540-020 | NEW-P | 93-13-001 |
| 388-240-2500 | NEW | 93-19-039 | 388-330-020 | AMD-C | 93-10-018 | 388-540-020 | NEW-E | 93-13-130 |
| 388-240-2550 | NEW-P | 93-15-080 | 388-330-020 | AMD-C | 93-12-096 | 388-540-020 | NEW | 93-16-039 |
| 388-240-2550 | NEW | 93-19-039 | 388-330-020 | AMD | 93-15-040 | 388-540-030 | NEW-P | 93-13-001 |
| 388-240-2570 | NEW-P | 93-15-080 | 388-330-030 | AMD-P | 93-07-035 | 388-540-030 | NEW-E | 93-13-130 |
| 388-240-2570 | NEW | 93-19-039 | 388-330-030 | AMD-C | 93-10-018 | 388-540-030 | NEW | 93-16-039 |
| 388-240-2600 | NEW-P | 93-15-080 | 388-330-030 | AMD-C | 93-12-096 | 388-540-040 | NEW-P | 93-13-001 |
| 388-240-2600 | NEW | 93-19-039 | 388-330-030 | AMD | 93-15-040 | 388-540-040 | NEW-E | 93-13-130 |
| 388-240-3100 | NEW-P | 93-15-080 | 388-330-050 | AMD-P | 93-07-035 | 388-540-040 | NEW | 93-16-039 |
| 388-240-3100 | NEW | 93-19-039 | 388-330-050 | AMD-C | 93-10-018 | 388-540-050 | NEW-P | 93-13-001 |
| 388-240-4100 | NEW-P | 93-15-080 | 388-330-050 | AMD-C | 93-12-096 | 388-540-050 | NEW-E | 93-13-130 |
| 388-240-4100 | NEW | 93-19-039 | 388-330-050 | AMD | 93-15-040 | 388-540-050 | NEW | 93-16-039 |
| 388-240-4200 | NEW-P | 93-15-080 | 388-538-001 | NEW-P | 93-14-046 | 388-540-060 | NEW-P | 93-13-001 |
| 388-240-4200 | NEW | 93-19-039 | 388-538-001 | NEW-E | 93-14-047 | 388-540-060 | NEW-E | 93-13-130 |
| 388-240-4400 | NEW-P | 93-15-080 | 388-538-001 | NEW | 93-17-039 | 388-540-060 | NEW | 93-16-039 |
| 388-240-4400 | NEW | 93-19-039 | 388-538-050 | NEW-P | 93-14-046 | 390-05-190 | NEW-P | 93-12-019 |
| 388-240-4600 | NEW-P | 93-15-080 | 388-538-050 | NEW-E | 93-14-047 | 390-05-190 | NEW | 93-16-064 |
| 388-240-4600 | NEW | 93-19-039 | 388-538-050 | NEW | 93-17-039 | 390-05-190 | AMD-P | 93-17-107 |
| 388-240-5100 | NEW-P | 93-15-080 | 388-538-060 | NEW-P | 93-14-046 | 390-05-190 | AMD | 93-22-002 |
| 388-240-5100 | NEW | 93-19-039 | 388-538-060 | NEW-E | 93-14-047 | 390-05-200 | AMD-P | 93-12-020 |
| 388-240-6100 | NEW-P | 93-15-080 | 388-538-060 | NEW | 93-17-039 | 390-05-200 | AMD | 93-16-064 |
| 388-240-6100 | NEW | 93-19-039 | 388-538-070 | NEW-P | 93-14-046 | 390-05-205 | AMD-P | 93-12-021 |
| 388-275-0010 | NEW-P | 94-01-138 | 388-538-070 | NEW-E | 93-14-047 | 390-05-205 | AMD | 93-16-064 |
| 388-275-0020 | NEW-P | 94-01-138 | 388-538-070 | NEW | 93-17-039 | 390-05-210 | AMD-P | 93-12-022 |
| 388-275-0030 | NEW-P | 94-01-138 | 388-538-080 | NEW-P | 93-14-046 | 390-05-210 | AMD | 93-16-064 |
| 388-275-0040 | NEW-P | 94-01-138 | 388-538-080 | NEW-E | 93-14-047 | 390-05-215 | AMD-P | 93-12-023 |
| 388-275-0050 | NEW-P | 94-01-138 | 388-538-080 | NEW | 93-17-039 | 390-05-215 | AMD | 93-16-064 |
| 388-275-0060 | NEW-P | 94-01-138 | 388-538-090 | NEW-P | 93-14-046 | 390-05-235 | AMD-P | 93-17-107 |
| 388-275-0070 | NEW-P | 94-01-138 | 388-538-090 | NEW-E | 93-14-047 | 390-05-235 | AMD | 93-22-002 |
| 388-275-0080 | NEW-P | 94-01-138 | 388-538-090 | NEW | 93-17-039 | 390-12-010 | AMD-P | 93-24-002 |
| 388-275-0090 | NEW-P | 94-01-138 | 388-538-095 | NEW-P | 93-14-046 | 390-12-170 | AMD-P | 93-15-101 |
| 388-280-1010 | NEW-P | 93-08-075 | 388-538-095 | NEW-E | 93-14-047 | 390-12-170 | AMD | 93-19-034 |
| 388-280-1010 | NEW | 93-12-054 | 388-538-095 | NEW | 93-17-039 | 390-14-040 | AMD-P | 93-24-002 |
| 388-280-1020 | NEW-P | 93-08-075 | 388-538-100 | NEW-P | 93-14-046 | 390-16-011 | AMD-P | 93-10-049 |
| 388-280-1020 | NEW | 93-12-054 | 388-538-100 | NEW-E | 93-14-047 | 390-16-011 | AMD-E | 93-10-051 |
| 388-280-1030 | NEW-P | 93-08-075 | 388-538-100 | NEW | 93-17-039 | 390-16-011 | AMD | 93-15-004 |
| 388-280-1030 | NEW | 93-12-054 | 388-538-110 | NEW-P | 93-14-046 | 390-16-011 | AMD-E | 94-01-039 |
| 388-280-1040 | NEW-P | 93-08-075 | 388-538-110 | NEW-E | 93-14-047 | 390-16-011 | AMD-P | 94-01-040 |
| 388-280-1040 | NEW | 93-12-054 | 388-538-110 | NEW | 93-17-039 | 390-16-012 | AMD-P | 93-10-049 |
| 388-280-1050 | NEW-P | 93-08-075 | 388-538-110 | AMD-P | 94-01-003 | 390-16-012 | AMD-E | 93-10-051 |
| 388-280-1050 | NEW | 93-12-054 | 388-538-120 | NEW-P | 93-14-046 | 390-16-012 | AMD | 93-15-004 |
| 388-280-1060 | NEW-P | 93-08-075 | 388-538-120 | NEW-E | 93-14-047 | 390-16-012 | AMD-E | 94-01-039 |
| 388-280-1060 | NEW | 93-12-054 | 388-538-120 | NEW | 93-17-039 | 390-16-012 | AMD-P | 94-01-040 |
| 388-280-1070 | NEW-P | 93-08-075 | 388-538-130 | NEW-P | 93-14-046 | 390-16-031 | AMD-P | 93-04-127 |
| 388-280-1070 | NEW | 93-12-054 | 388-538-130 | NEW-E | 93-14-047 | 390-16-031 | AMD | 93-09-002 |
| 388-280-1080 | NEW-P | 93-08-075 | 388-538-130 | NEW | 93-17-039 | 390-16-031 | AMD-E | 94-01-039 |
| 388-280-1080 | NEW | 93-12-054 | 388-538-140 | NEW-P | 93-14-046 | 390-16-031 | AMD-P | 94-01-040 |
| 388-280-1090 | NEW-P | 93-08-075 | 388-538-140 | NEW-E | 93-14-047 | 390-16-032 | AMD-E | 94-01-039 |
| 388-280-1090 | NEW | 93-12-054 | 388-538-140 | NEW | 93-17-039 | 390-16-032 | AMD-P | 94-01-040 |
| 388-280-1100 | NEW-P | 93-08-075 | 388-538-150 | NEW-P | 93-14-046 | 390-16-033 | AMD-E | 94-01-039 |
| 388-280-1100 | NEW | 93-12-054 | 388-538-150 | NEW-E | 93-14-047 | 390-16-033 | AMD-P | 94-01-040 |
| 388-280-1110 | NEW-P | 93-08-075 | 388-538-150 | NEW | 93-17-039 | 390-16-034 | NEW-P | 93-19-033 |
| 388-280-1110 | NEW | 93-12-054 | 388-539-001 | NEW-P | 93-14-024 | 390-16-034 | NEW | 93-24-003 |
| 388-280-1120 | NEW-P | 93-08-075 | 388-539-001 | NEW-E | 93-14-028 | 390-16-038 | AMD-P | 93-12-024 |
| 388-280-1120 | NEW | 93-12-054 | 388-539-001 | NEW | 93-17-037 | 390-16-038 | AMD-P | 93-16-062 |
| 388-280-1130 | NEW-P | 93-08-075 | 388-539-050 | NEW-P | 93-14-024 | 390-16-038 | AMD-E | 93-16-063 |
| 388-280-1130 | NEW | 93-12-054 | 388-539-050 | NEW-E | 93-14-028 | 390-16-038 | AMD | 93-22-002 |
| 388-280-1140 | NEW-P | 93-08-075 | 388-539-050 | NEW | 93-17-037 | 390-16-038 | AMD-W | 94-01-054 |
| 388-280-1140 | NEW | 93-12-054 | 388-539-100 | NEW-P | 93-14-024 | 390-16-041 | AMD-P | 93-04-127 |

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| WAC # | | WSR # | WAC # | | WSR # | WAC # | | WSR # |
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| 390-16-041 | AMD | 93-09-002 | 390-17-305 | NEW-P | 93-12-018 | 392-121-295 | AMD | 94-01-190 |
| 390-16-041 | AMD-E | 94-01-039 | 390-17-305 | NEW | 93-16-064 | 392-121-445 | AMD | 93-04-054 |
| 390-16-041 | AMD-P | 94-01-040 | 390-17-310 | NEW-P | 93-12-018 | 392-122-110 | AMD-P | 93-18-018 |
| 390-16-044 | NEW-P | 93-15-002 | 390-17-310 | NEW | 93-16-064 | 392-122-110 | AMD | 93-21-090 |
| 390-16-044 | NEW-E | 93-15-003 | 390-17-315 | NEW-P | 93-12-018 | 392-122-400 | NEW-P | 93-07-046 |
| 390-16-044 | NEW | 93-19-034 | 390-17-315 | NEW | 93-16-064 | 392-122-400 | NEW | 93-12-017 |
| 390-16-050 | AMD-E | 94-01-039 | 390-17-400 | NEW-P | 93-12-018 | 392-122-401 | NEW-P | 93-07-046 |
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| 390-16-200 | AMD-W | 94-01-054 | 390-18-010 | AMD | 93-16-064 | 392-122-405 | NEW | 93-12-017 |
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| 390-16-230 | AMD-P | 93-12-027 | 390-24-031 | REP-P | 93-24-002 | 392-123-054 | AMD-P | 93-11-034 |
| 390-16-230 | AMD | 93-16-064 | 390-24-160 | AMD-P | 93-24-002 | 392-123-054 | AMD | 93-17-006 |
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| 390-16-232 | NEW | 93-16-064 | 390-37-060 | AMD | 93-24-003 | 392-123-072 | AMD | 93-17-006 |
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| 390-16-234 | NEW | 93-16-064 | 390-37-063 | AMD | 93-24-003 | 392-127-015 | AMD | 93-21-089 |
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| 390-16-240 | AMD | 93-16-064 | 390-37-105 | AMD-P | 93-24-002 | 392-127-703 | REP-P | 94-01-136 |
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| 390-17-065 | NEW-W | 93-19-130 | 392-121-261 | AMD | 94-01-190 | 392-139-057 | REP-P | 93-18-062 |
| 390-17-065 | NEW-P | 93-19-131 | 392-121-265 | REP-P | 93-19-091 | 392-139-057 | REP | 93-21-092 |
| 390-17-065 | NEW-E | 93-22-001 | 392-121-265 | REP | 94-01-190 | 392-139-058 | NEW-P | 93-18-062 |
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| 390-17-070 | NEW | 93-22-002 | 392-121-270 | AMD | 94-01-190 | 392-139-320 | AMD-P | 93-18-062 |
| 390-17-071 | NEW-P | 93-24-002 | 392-121-272 | REP-P | 93-19-091 | 392-139-320 | AMD | 93-21-092 |
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| 390-17-100 | NEW | 93-16-064 | 392-121-280 | AMD-P | 93-19-091 | 392-139-606 | NEW | 93-21-092 |
| 390-17-200 | NEW-P | 93-12-018 | 392-121-280 | AMD | 94-01-190 | 392-139-610 | AMD-P | 93-18-062 |
| 390-17-200 | NEW | 93-16-064 | 392-121-285 | REP-P | 93-19-091 | 392-139-610 | AMD | 93-21-092 |
| 390-17-205 | NEW-P | 93-12-018 | 392-121-285 | REP | 94-01-190 | 392-139-611 | NEW-P | 93-18-062 |
| 390-17-205 | NEW | 93-16-064 | 392-121-290 | REP-P | 93-19-091 | 392-139-611 | NEW | 93-21-092 |
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| 392-140-451 | AMD | 93-21-091 | 392-157-040 | NEW-P | 94-01-137 | 392-164-375 | AMD-P | 93-17-103 |
| 392-140-452 | AMD-P | 93-18-019 | 392-157-045 | NEW-P | 94-01-137 | 392-164-375 | AMD | 93-21-088 |
| 392-140-452 | AMD | 93-21-091 | 392-157-050 | NEW-P | 94-01-137 | 392-164-390 | AMD-P | 93-17-103 |
| 392-140-460 | AMD-P | 93-18-019 | 392-157-055 | NEW-P | 94-01-137 | 392-164-390 | AMD | 93-21-088 |
| 392-140-460 | AMD | 93-21-091 | 392-157-060 | NEW-P | 94-01-137 | 392-164-420 | NEW-P | 93-17-103 |
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| 392-140-461 | AMD | 93-21-091 | 392-157-070 | NEW-P | 94-01-137 | 392-164-425 | NEW-P | 93-17-103 |
| 392-140-462 | AMD-P | 93-18-019 | 392-157-075 | NEW-P | 94-01-137 | 392-164-425 | NEW | 93-21-088 |
| 392-140-462 | AMD | 93-21-091 | 392-157-080 | NEW-P | 94-01-137 | 392-164-430 | NEW-P | 93-17-103 |
| 392-140-463 | AMD-P | 93-18-019 | 392-157-085 | NEW-P | 94-01-137 | 392-164-430 | NEW | 93-21-088 |
| 392-140-463 | AMD | 93-21-091 | 392-157-090 | NEW-P | 94-01-137 | 392-167A-005 | NEW-P | 93-07-048 |
| 392-140-464 | AMD-P | 93-18-019 | 392-157-095 | NEW-P | 94-01-137 | 392-167A-005 | NEW | 93-12-016 |
| 392-140-464 | AMD | 93-21-091 | 392-157-100 | NEW-P | 94-01-137 | 392-167A-010 | NEW-P | 93-07-048 |
| 392-140-465 | AMD-P | 93-18-019 | 392-157-105 | NEW-P | 94-01-137 | 392-167A-010 | NEW | 93-12-016 |
| 392-140-465 | AMD | 93-21-091 | 392-157-110 | NEW-P | 94-01-137 | 392-167A-015 | NEW-P | 93-07-048 |
| 392-140-466 | AMD-P | 93-18-019 | 392-157-115 | NEW-P | 94-01-137 | 392-167A-015 | NEW | 93-12-016 |
| 392-140-466 | AMD | 93-21-091 | 392-157-120 | NEW-P | 94-01-137 | 392-167A-020 | NEW-P | 93-07-048 |
| 392-140-470 | AMD-P | 93-18-019 | 392-157-125 | NEW-P | 94-01-137 | 392-167A-020 | NEW | 93-12-016 |
| 392-140-470 | AMD | 93-21-091 | 392-157-130 | NEW-P | 94-01-137 | 392-167A-025 | NEW-P | 93-07-048 |
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| 392-140-472 | AMD | 93-21-091 | 392-157-150 | NEW-P | 94-01-137 | 392-167A-035 | NEW-P | 93-07-048 |
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| 392-169-085 | NEW-P | 94-01-114 | 392-171-508 | NEW-P | 93-15-085 | 392-171-960 | NEW | 93-19-063 |
| 392-169-090 | NEW-P | 94-01-114 | 392-171-508 | NEW | 93-19-063 | 392-173-005 | AMD-P | 93-15-083 |
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| 392-169-120 | NEW-P | 94-01-114 | 392-171-512 | AMD | 93-19-063 | 392-173-030 | AMD-P | 93-15-083 |
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| 392-171-300 | AMD-P | 93-15-085 | 392-171-522 | NEW | 93-19-063 | 392-173-047 | NEW-P | 93-15-083 |
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| 392-171-315 | AMD | 93-19-063 | 392-171-536 | AMD-P | 93-15-085 | 392-184-025 | AMD | 93-23-037 |
| 392-171-320 | AMD-P | 93-15-085 | 392-171-536 | AMD | 93-19-063 | 392-185-003 | AMD-P | 93-19-119 |
| 392-171-320 | AMD | 93-19-063 | 392-171-551 | AMD-P | 93-15-085 | 392-185-003 | AMD | 93-23-036 |
| 392-171-321 | AMD-P | 93-15-085 | 392-171-551 | AMD | 93-19-063 | 392-185-005 | AMD-P | 93-19-119 |
| 392-171-321 | AMD | 93-19-063 | 392-171-556 | AMD-P | 93-15-085 | 392-185-005 | AMD | 93-23-036 |
| 392-171-323 | NEW-P | 93-15-085 | 392-171-556 | AMD | 93-19-063 | 392-185-010 | AMD-P | 93-19-119 |
| 392-171-323 | NEW | 93-19-063 | 392-171-561 | AMD-P | 93-15-085 | 392-185-010 | AMD | 93-23-036 |
| 392-171-324 | NEW-P | 93-15-085 | 392-171-561 | AMD | 93-19-063 | 392-185-020 | AMD-P | 93-19-119 |
| 392-171-324 | NEW | 93-19-063 | 392-171-564 | NEW-P | 93-15-085 | 392-185-020 | AMD | 93-23-036 |
| 392-171-325 | AMD-P | 93-15-085 | 392-171-564 | NEW | 93-19-063 | 392-185-030 | AMD-P | 93-19-119 |
| 392-171-325 | AMD | 93-19-063 | 392-171-581 | AMD-P | 93-15-085 | 392-185-030 | AMD | 93-23-036 |
| 392-171-336 | AMD-P | 93-15-085 | 392-171-581 | AMD | 93-19-063 | 392-185-040 | AMD-P | 93-19-119 |
| 392-171-336 | AMD | 93-19-063 | 392-171-593 | NEW-P | 93-15-085 | 392-185-040 | AMD | 93-23-036 |
| 392-171-341 | AMD-P | 93-15-085 | 392-171-593 | NEW | 93-19-063 | 392-185-050 | AMD-P | 93-19-119 |
| 392-171-341 | AMD | 93-19-063 | 392-171-596 | AMD-P | 93-15-085 | 392-185-050 | AMD | 93-23-036 |
| 392-171-351 | AMD-P | 93-15-085 | 392-171-596 | AMD | 93-19-063 | 392-185-060 | AMD-P | 93-19-119 |
| 392-171-351 | AMD | 93-19-063 | 392-171-646 | AMD-P | 93-15-085 | 392-185-060 | AMD | 93-23-036 |
| 392-171-371 | AMD-P | 93-15-085 | 392-171-646 | AMD | 93-19-063 | 392-185-070 | AMD-P | 93-19-119 |
| 392-171-371 | AMD | 93-19-063 | 392-171-651 | AMD-P | 93-15-085 | 392-185-070 | AMD | 93-23-036 |
| 392-171-381 | AMD-P | 93-15-085 | 392-171-651 | AMD | 93-19-063 | 392-185-080 | AMD-P | 93-19-119 |
| 392-171-381 | AMD | 93-19-063 | 392-171-688 | NEW-P | 93-15-085 | 392-185-080 | AMD | 93-23-036 |
| 392-171-382 | AMD-P | 93-15-085 | 392-171-688 | NEW | 93-19-063 | 392-185-100 | AMD-P | 93-19-119 |
| 392-171-382 | AMD | 93-19-063 | 392-171-691 | AMD-P | 93-15-085 | 392-185-100 | AMD | 93-23-036 |
| 392-171-383 | AMD-P | 93-15-085 | 392-171-691 | AMD | 93-19-063 | 392-185-120 | AMD-P | 93-19-119 |
| 392-171-383 | AMD | 93-19-063 | 392-171-696 | AMD-P | 93-15-085 | 392-185-120 | AMD | 93-23-036 |
| 392-171-384 | REP-P | 93-15-085 | 392-171-696 | AMD | 93-19-063 | 392-185-150 | AMD-P | 93-19-119 |
| 392-171-384 | REP | 93-19-063 | 392-171-728 | NEW-P | 93-15-085 | 392-185-150 | AMD | 93-23-036 |
| 392-171-401 | AMD-P | 93-15-085 | 392-171-728 | NEW | 93-19-063 | 392-196-005 | AMD | 93-07-037 |
| 392-171-401 | AMD | 93-19-063 | 392-171-736 | AMD-P | 93-15-085 | 392-196-030 | AMD | 93-07-037 |
| 392-171-452 | NEW-P | 93-15-085 | 392-171-736 | AMD | 93-19-063 | 392-196-080 | AMD | 93-07-037 |
| 392-171-452 | NEW | 93-19-063 | 392-171-835 | NEW-P | 93-15-085 | 392-196-095 | AMD | 93-07-037 |
| 392-171-454 | NEW-P | 93-15-085 | 392-171-835 | NEW | 93-19-063 | 392-202-110 | AMD | 93-08-005 |
| 392-171-454 | NEW | 93-19-063 | 392-171-900 | NEW-P | 93-15-085 | 392-202-110 | AMD-P | 93-15-034 |
| 392-171-456 | AMD-P | 93-15-085 | 392-171-900 | NEW | 93-19-063 | 392-202-110 | AMD | 93-19-121 |
| 392-171-456 | AMD | 93-19-063 | 392-171-901 | NEW-P | 93-15-085 | 392-210-015 | AMD-P | 93-19-120 |
| 392-171-457 | NEW-P | 93-15-085 | 392-171-901 | NEW | 93-19-063 | 392-210-015 | AMD | 93-23-038 |
| 392-171-457 | NEW | 93-19-063 | 392-171-905 | NEW-P | 93-15-085 | 392-210-030 | AMD-P | 93-19-120 |
| 392-171-461 | AMD-P | 93-15-085 | 392-171-905 | NEW | 93-19-063 | 392-210-030 | AMD | 93-23-038 |
| 392-171-461 | AMD | 93-19-063 | 392-171-910 | NEW-P | 93-15-085 | 392-315-005 | REP-E | 93-08-037 |
| 392-171-462 | NEW-P | 93-15-085 | 392-171-910 | NEW | 93-19-063 | 392-315-005 | REP-P | 93-11-033 |
| 392-171-462 | NEW | 93-19-063 | 392-171-915 | NEW-P | 93-15-085 | 392-315-005 | REP | 93-17-007 |
| 392-171-463 | NEW-P | 93-15-085 | 392-171-915 | NEW | 93-19-063 | 392-315-010 | REP-E | 93-08-037 |
| 392-171-463 | NEW | 93-19-063 | 392-171-925 | NEW-P | 93-15-085 | 392-315-010 | REP-P | 93-11-033 |
| 392-171-464 | NEW-P | 93-15-085 | 392-171-925 | NEW | 93-19-063 | 392-315-010 | REP | 93-17-007 |
| 392-171-464 | NEW | 93-19-063 | 392-171-930 | NEW-P | 93-15-085 | 392-315-015 | REP-E | 93-08-037 |
| 392-171-466 | AMD-P | 93-15-085 | 392-171-930 | NEW | 93-19-063 | 392-315-015 | REP-P | 93-11-033 |
| 392-171-466 | AMD | 93-19-063 | 392-171-935 | NEW-P | 93-15-085 | 392-315-015 | REP | 93-17-007 |
| 392-171-471 | AMD-P | 93-15-085 | 392-171-935 | NEW | 93-19-063 | 392-315-020 | REP-E | 93-08-037 |
| 392-171-471 | AMD | 93-19-063 | 392-171-940 | NEW-P | 93-15-085 | 392-315-020 | REP-P | 93-11-033 |
| 392-171-476 | AMD-P | 93-15-085 | 392-171-940 | NEW | 93-19-063 | 392-315-020 | REP | 93-17-007 |
| 392-171-476 | AMD | 93-19-063 | 392-171-945 | NEW-P | 93-15-085 | 392-315-025 | REP-E | 93-08-037 |
| 392-171-481 | AMD-P | 93-15-085 | 392-171-945 | NEW | 93-19-063 | 392-315-025 | REP-P | 93-11-033 |
| 392-171-481 | AMD | 93-19-063 | 392-171-950 | NEW-P | 93-15-085 | 392-315-025 | REP | 93-17-007 |
| 392-171-504 | NEW-P | 93-15-085 | 392-171-950 | NEW | 93-19-063 | 392-315-030 | REP-E | 93-08-037 |
| 392-171-504 | NEW | 93-19-063 | 392-171-955 | NEW-P | 93-15-085 | 392-315-030 | REP-P | 93-11-033 |

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| 392-315-030 | REP | 93-17-007 | 392-315-155 | REP-E | 93-08-037 | 415-08-270 | REP-P | 93-08-054 |
| 392-315-035 | REP-E | 93-08-037 | 392-315-155 | REP-P | 93-11-033 | 415-08-270 | REP | 93-11-079 |
| 392-315-035 | REP-P | 93-11-033 | 392-315-155 | REP | 93-17-007 | 415-08-280 | AMD-P | 93-08-054 |
| 392-315-035 | REP | 93-17-007 | 392-315-160 | REP-E | 93-08-037 | 415-08-280 | AMD | 93-11-079 |
| 392-315-040 | REP-E | 93-08-037 | 392-315-160 | REP-P | 93-11-033 | 415-08-290 | REP-P | 93-08-054 |
| 392-315-040 | REP-P | 93-11-033 | 392-315-160 | REP | 93-17-007 | 415-08-290 | REP | 93-11-079 |
| 392-315-040 | REP | 93-17-007 | 392-315-165 | REP-E | 93-08-037 | 415-08-300 | REP-P | 93-08-054 |
| 392-315-045 | REP-E | 93-08-037 | 392-315-165 | REP-P | 93-11-033 | 415-08-300 | REP | 93-11-079 |
| 392-315-045 | REP-P | 93-11-033 | 392-315-165 | REP | 93-17-007 | 415-08-310 | REP-P | 93-08-054 |
| 392-315-045 | REP | 93-17-007 | 399-10-010 | AMD-P | 93-15-089 | 415-08-310 | REP | 93-11-079 |
| 392-315-050 | REP-E | 93-08-037 | 399-10-010 | AMD | 93-22-014 | 415-08-320 | REP-P | 93-08-054 |
| 392-315-050 | REP-P | 93-11-033 | 399-10-020 | AMD-P | 93-15-089 | 415-08-320 | REP | 93-11-079 |
| 392-315-050 | REP | 93-17-007 | 399-10-020 | AMD | 93-22-014 | 415-08-330 | REP-P | 93-08-054 |
| 392-315-055 | REP-E | 93-08-037 | 399-10-030 | AMD-P | 93-15-089 | 415-08-330 | REP | 93-11-079 |
| 392-315-055 | REP-P | 93-11-033 | 399-10-030 | AMD | 93-22-014 | 415-08-340 | REP-P | 93-08-054 |
| 392-315-055 | REP | 93-17-007 | 399-30-040 | AMD-P | 93-15-090 | 415-08-340 | REP | 93-11-079 |
| 392-315-060 | REP-E | 93-08-037 | 399-30-040 | AMD | 93-22-015 | 415-08-350 | REP-P | 93-08-054 |
| 392-315-060 | REP-P | 93-11-033 | 415-04-010 | AMD-P | 93-08-054 | 415-08-350 | REP | 93-11-079 |
| 392-315-060 | REP | 93-17-007 | 415-04-010 | AMD | 93-11-079 | 415-08-360 | REP-P | 93-08-054 |
| 392-315-065 | REP-E | 93-08-037 | 415-04-020 | AMD-P | 93-08-054 | 415-08-360 | REP | 93-11-079 |
| 392-315-065 | REP-P | 93-11-033 | 415-04-020 | AMD | 93-11-079 | 415-08-370 | REP-P | 93-08-054 |
| 392-315-065 | REP | 93-17-007 | 415-08-010 | AMD-P | 93-08-054 | 415-08-370 | REP | 93-11-079 |
| 392-315-070 | REP-E | 93-08-037 | 415-08-010 | AMD | 93-11-079 | 415-08-380 | REP-P | 93-08-054 |
| 392-315-070 | REP-P | 93-11-033 | 415-08-020 | AMD-P | 93-08-054 | 415-08-380 | REP | 93-11-079 |
| 392-315-070 | REP | 93-17-007 | 415-08-020 | AMD | 93-11-079 | 415-08-390 | REP-P | 93-08-054 |
| 392-315-075 | REP-E | 93-08-037 | 415-08-025 | NEW-P | 93-08-054 | 415-08-390 | REP | 93-11-079 |
| 392-315-075 | REP-P | 93-11-033 | 415-08-025 | NEW | 93-11-079 | 415-08-400 | REP-P | 93-08-054 |
| 392-315-075 | REP | 93-17-007 | 415-08-030 | AMD-P | 93-08-054 | 415-08-400 | REP | 93-11-079 |
| 392-315-080 | REP-E | 93-08-037 | 415-08-030 | AMD | 93-11-079 | 415-08-410 | REP-P | 93-08-054 |
| 392-315-080 | REP-P | 93-11-033 | 415-08-040 | AMD-P | 93-08-054 | 415-08-410 | REP | 93-11-079 |
| 392-315-080 | REP | 93-17-007 | 415-08-040 | AMD | 93-11-079 | 415-08-420 | AMD-P | 93-08-054 |
| 392-315-085 | REP-E | 93-08-037 | 415-08-060 | REP-P | 93-08-054 | 415-08-420 | AMD | 93-11-079 |
| 392-315-085 | REP-P | 93-11-033 | 415-08-060 | REP | 93-11-079 | 415-08-430 | REP-P | 93-08-054 |
| 392-315-085 | REP | 93-17-007 | 415-08-080 | AMD-P | 93-08-054 | 415-08-430 | REP | 93-11-079 |
| 392-315-090 | REP-E | 93-08-037 | 415-08-080 | AMD | 93-11-079 | 415-08-440 | REP-P | 93-08-054 |
| 392-315-090 | REP-P | 93-11-033 | 415-08-090 | AMD-P | 93-08-054 | 415-08-440 | REP | 93-11-079 |
| 392-315-090 | REP | 93-17-007 | 415-08-090 | AMD | 93-11-079 | 415-08-450 | REP-P | 93-08-054 |
| 392-315-095 | REP-E | 93-08-037 | 415-08-100 | AMD-P | 93-08-054 | 415-08-450 | REP | 93-11-079 |
| 392-315-095 | REP-P | 93-11-033 | 415-08-100 | AMD | 93-11-079 | 415-08-460 | REP-P | 93-08-054 |
| 392-315-095 | REP | 93-17-007 | 415-08-105 | NEW-P | 93-08-054 | 415-08-460 | REP | 93-11-079 |
| 392-315-100 | REP-E | 93-08-037 | 415-08-105 | NEW | 93-11-079 | 415-08-470 | REP-P | 93-08-054 |
| 392-315-100 | REP-P | 93-11-033 | 415-08-110 | REP-P | 93-08-054 | 415-08-470 | REP | 93-11-079 |
| 392-315-100 | REP | 93-17-007 | 415-08-110 | REP | 93-11-079 | 415-08-480 | REP-P | 93-08-054 |
| 392-315-105 | REP-E | 93-08-037 | 415-08-120 | REP-P | 93-08-054 | 415-08-480 | REP | 93-11-079 |
| 392-315-105 | REP-P | 93-11-033 | 415-08-120 | REP | 93-11-079 | 415-104-011 | NEW-P | 93-08-053 |
| 392-315-105 | REP | 93-17-007 | 415-08-130 | REP-P | 93-08-054 | 415-104-011 | NEW | 93-11-078 |
| 392-315-110 | REP-E | 93-08-037 | 415-08-130 | REP | 93-11-079 | 415-104-782 | NEW-P | 93-08-053 |
| 392-315-110 | REP-P | 93-11-033 | 415-08-140 | REP-P | 93-08-054 | 415-104-782 | NEW | 93-11-078 |
| 392-315-110 | REP | 93-17-007 | 415-08-140 | REP | 93-11-079 | 415-104-783 | NEW-P | 93-08-053 |
| 392-315-115 | REP-E | 93-08-037 | 415-08-150 | REP-P | 93-08-054 | 415-104-783 | NEW | 93-11-078 |
| 392-315-115 | REP-P | 93-11-033 | 415-08-150 | REP | 93-11-079 | 415-104-784 | NEW-P | 93-08-053 |
| 392-315-115 | REP | 93-17-007 | 415-08-160 | REP-P | 93-08-054 | 415-104-784 | NEW | 93-11-078 |
| 392-315-120 | REP-E | 93-08-037 | 415-08-160 | REP | 93-11-079 | 415-104-785 | NEW-P | 93-08-053 |
| 392-315-120 | REP-P | 93-11-033 | 415-08-170 | REP-P | 93-08-054 | 415-104-785 | NEW | 93-11-078 |
| 392-315-120 | REP | 93-17-007 | 415-08-170 | REP | 93-11-079 | 415-108-010 | AMD-P | 93-08-052 |
| 392-315-125 | REP-E | 93-08-037 | 415-08-180 | REP-P | 93-08-054 | 415-108-010 | AMD | 93-11-077 |
| 392-315-125 | REP-P | 93-11-033 | 415-08-180 | REP | 93-11-079 | 415-108-100 | REP-P | 93-08-052 |
| 392-315-125 | REP | 93-17-007 | 415-08-190 | REP-P | 93-08-054 | 415-108-100 | REP | 93-11-077 |
| 392-315-130 | REP-E | 93-08-037 | 415-08-190 | REP | 93-11-079 | 415-108-110 | REP-P | 93-08-052 |
| 392-315-130 | REP-P | 93-11-033 | 415-08-200 | REP-P | 93-08-054 | 415-108-110 | REP | 93-11-077 |
| 392-315-130 | REP | 93-17-007 | 415-08-200 | REP | 93-11-079 | 415-108-120 | REP-P | 93-08-052 |
| 392-315-135 | REP-E | 93-08-037 | 415-08-210 | REP-P | 93-08-054 | 415-108-120 | REP | 93-11-077 |
| 392-315-135 | REP-P | 93-11-033 | 415-08-210 | REP | 93-11-079 | 415-108-130 | REP-P | 93-08-052 |
| 392-315-135 | REP | 93-17-007 | 415-08-220 | REP-P | 93-08-054 | 415-108-130 | REP | 93-11-077 |
| 392-315-140 | REP-E | 93-08-037 | 415-08-220 | REP | 93-11-079 | 415-108-150 | REP-P | 93-08-052 |
| 392-315-140 | REP-P | 93-11-033 | 415-08-230 | REP-P | 93-08-054 | 415-108-150 | REP | 93-11-077 |
| 392-315-140 | REP | 93-17-007 | 415-08-230 | REP | 93-11-079 | 415-108-160 | REP-P | 93-08-052 |
| 392-315-145 | REP-E | 93-08-037 | 415-08-240 | REP-P | 93-08-054 | 415-108-160 | REP | 93-11-077 |
| 392-315-145 | REP-P | 93-11-033 | 415-08-240 | REP | 93-11-079 | 415-108-620 | NEW-P | 93-08-052 |
| 392-315-145 | REP | 93-17-007 | 415-08-250 | REP-P | 93-08-054 | 415-108-620 | NEW | 93-11-077 |
| 392-315-150 | REP-E | 93-08-037 | 415-08-250 | REP | 93-11-079 | 415-108-630 | NEW-P | 93-08-052 |
| 392-315-150 | REP-P | 93-11-033 | 415-08-260 | REP-P | 93-08-054 | 415-108-630 | NEW | 93-11-077 |
| 392-315-150 | REP | 93-17-007 | 415-08-260 | REP | 93-11-079 | 415-108-640 | NEW-P | 93-08-052 |

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| 415-108-640 | NEW | 93-11-077 | 434-19-061 | REP-P | 93-21-093 | 434-19-190 | AMD-E | 93-14-081 |
| 415-108-650 | NEW-P | 93-08-052 | 434-19-061 | REP | 94-01-004 | 434-19-190 | REP-P | 93-21-093 |
| 415-108-650 | NEW | 93-11-077 | 434-19-075 | REP-P | 93-21-093 | 434-19-190 | AMD-E | 93-22-066 |
| 415-108-660 | NEW-P | 93-08-052 | 434-19-075 | REP | 94-01-004 | 434-19-190 | REP | 94-01-004 |
| 415-108-660 | NEW | 93-11-077 | 434-19-077 | REP-P | 93-21-093 | 434-19-191 | AMD-E | 93-14-081 |
| 415-108-671 | NEW-E | 93-15-059 | 434-19-077 | REP | 94-01-004 | 434-19-191 | REP-P | 93-21-093 |
| 415-108-671 | NEW-P | 93-15-082 | 434-19-078 | REP-P | 93-21-093 | 434-19-191 | AMD-E | 93-22-066 |
| 415-108-671 | NEW | 93-20-020 | 434-19-078 | REP | 94-01-004 | 434-19-191 | REP | 94-01-004 |
| 415-112-015 | NEW-P | 93-08-051 | 434-19-080 | AMD-E | 93-14-081 | 434-19-192 | AMD-E | 93-14-081 |
| 415-112-015 | NEW-S | 93-17-023 | 434-19-080 | REP-P | 93-21-093 | 434-19-192 | REP-P | 93-21-093 |
| 415-112-015 | NEW | 93-20-021 | 434-19-080 | AMD-E | 93-22-066 | 434-19-192 | AMD-E | 93-22-066 |
| 415-112-535 | REP-P | 93-08-051 | 434-19-081 | AMD-E | 93-14-081 | 434-19-192 | REP | 94-01-004 |
| 415-112-535 | REP-S | 93-17-023 | 434-19-081 | REP-P | 93-21-093 | 434-19-193 | AMD-E | 93-14-081 |
| 415-112-535 | REP | 93-20-021 | 434-19-081 | AMD-E | 93-22-066 | 434-19-193 | REP-P | 93-21-093 |
| 415-112-561 | NEW-E | 93-15-059 | 434-19-081 | REP | 94-01-004 | 434-19-193 | AMD-E | 93-22-066 |
| 415-112-561 | NEW-P | 93-15-082 | 434-19-082 | AMD-E | 93-14-081 | 434-19-193 | REP | 94-01-004 |
| 415-112-561 | NEW | 93-20-020 | 434-19-082 | REP-P | 93-21-093 | 434-19-194 | AMD-E | 93-14-081 |
| 415-112-722 | REP-P | 93-08-051 | 434-19-082 | AMD-E | 93-22-066 | 434-19-194 | REP-P | 93-21-093 |
| 415-112-722 | REP-S | 93-17-023 | 434-19-082 | REP | 94-01-004 | 434-19-194 | AMD-E | 93-22-066 |
| 415-112-722 | REP | 93-20-021 | 434-19-083 | AMD-E | 93-14-081 | 434-19-194 | REP | 94-01-004 |
| 415-112-810 | AMD-P | 93-08-051 | 434-19-083 | REP-P | 93-21-093 | 434-19-195 | AMD-E | 93-14-081 |
| 415-112-810 | AMD-S | 93-17-023 | 434-19-083 | AMD-E | 93-22-066 | 434-19-195 | REP-P | 93-21-093 |
| 415-112-810 | AMD | 93-20-021 | 434-19-083 | REP | 94-01-004 | 434-19-195 | AMD-E | 93-22-066 |
| 415-112-820 | AMD-P | 93-08-051 | 434-19-084 | AMD-E | 93-14-081 | 434-19-195 | REP | 94-01-004 |
| 415-112-820 | AMD-S | 93-17-023 | 434-19-084 | REP-P | 93-21-093 | 434-19-230 | REP-P | 93-21-093 |
| 415-112-820 | AMD | 93-20-021 | 434-19-084 | AMD-E | 93-22-066 | 434-19-230 | REP | 94-01-004 |
| 415-112-830 | NEW-P | 93-08-051 | 434-19-084 | REP | 94-01-004 | 434-50-010 | AMD-E | 93-14-080 |
| 415-112-830 | NEW-S | 93-17-023 | 434-19-085 | AMD-E | 93-14-081 | 434-50-010 | AMD-E | 93-14-107 |
| 415-112-830 | NEW | 93-20-021 | 434-19-085 | REP-P | 93-21-093 | 434-50-010 | REP-P | 93-16-114 |
| 434-19-010 | REP-P | 93-21-093 | 434-19-085 | AMD-E | 93-22-066 | 434-50-010 | REP | 93-20-072 |
| 434-19-010 | REP | 94-01-004 | 434-19-085 | REP | 94-01-004 | 434-50-015 | AMD-E | 93-14-080 |
| 434-19-012 | AMD-E | 93-14-081 | 434-19-086 | AMD-E | 93-14-081 | 434-50-015 | AMD-E | 93-14-107 |
| 434-19-012 | REP-P | 93-21-093 | 434-19-086 | REP-P | 93-21-093 | 434-50-015 | REP-P | 93-16-114 |
| 434-19-012 | AMD-E | 93-22-066 | 434-19-086 | AMD-E | 93-22-066 | 434-50-015 | REP | 93-20-072 |
| 434-19-012 | REP | 94-01-004 | 434-19-086 | REP | 94-01-004 | 434-50-020 | AMD-E | 93-14-080 |
| 434-19-013 | REP-P | 93-21-093 | 434-19-087 | AMD-E | 93-14-081 | 434-50-020 | AMD-E | 93-14-107 |
| 434-19-013 | REP | 94-01-004 | 434-19-087 | REP-P | 93-21-093 | 434-50-020 | REP-P | 93-16-114 |
| 434-19-014 | AMD-E | 93-14-081 | 434-19-087 | AMD-E | 93-22-066 | 434-50-020 | REP | 93-20-072 |
| 434-19-014 | REP-P | 93-21-093 | 434-19-087 | REP | 94-01-004 | 434-50-025 | REP-P | 93-16-114 |
| 434-19-014 | AMD-E | 93-22-066 | 434-19-088 | AMD-E | 93-14-081 | 434-50-025 | REP | 93-20-072 |
| 434-19-014 | REP | 94-01-004 | 434-19-088 | REP-P | 93-21-093 | 434-50-030 | REP-P | 93-16-114 |
| 434-19-015 | REP-P | 93-21-093 | 434-19-088 | AMD-E | 93-22-066 | 434-50-030 | REP | 93-20-072 |
| 434-19-015 | REP | 94-01-004 | 434-19-088 | REP | 94-01-004 | 434-50-031 | NEW-E | 93-14-080 |
| 434-19-016 | REP-P | 93-21-093 | 434-19-097 | AMD-E | 93-14-081 | 434-50-031 | NEW-E | 93-14-107 |
| 434-19-016 | REP | 94-01-004 | 434-19-097 | REP-P | 93-21-093 | 434-50-032 | NEW-E | 93-14-080 |
| 434-19-017 | REP-P | 93-21-093 | 434-19-097 | AMD-E | 93-22-066 | 434-50-032 | NEW-E | 93-14-107 |
| 434-19-017 | REP | 94-01-004 | 434-19-097 | REP | 94-01-004 | 434-50-033 | NEW-E | 93-14-080 |
| 434-19-018 | REP-P | 93-21-093 | 434-19-098 | AMD-E | 93-14-081 | 434-50-033 | NEW-E | 93-14-107 |
| 434-19-018 | REP | 94-01-004 | 434-19-098 | REP-P | 93-21-093 | 434-50-034 | NEW-E | 93-14-080 |
| 434-19-020 | AMD-E | 93-14-081 | 434-19-098 | AMD-E | 93-22-066 | 434-50-034 | NEW-E | 93-14-107 |
| 434-19-020 | REP-P | 93-21-093 | 434-19-098 | REP | 94-01-004 | 434-50-035 | AMD-E | 93-14-080 |
| 434-19-020 | AMD-E | 93-22-066 | 434-19-100 | REP-P | 93-21-093 | 434-50-035 | AMD-E | 93-14-107 |
| 434-19-020 | REP | 94-01-004 | 434-19-100 | REP | 94-01-004 | 434-50-035 | REP-P | 93-16-114 |
| 434-19-050 | REP-P | 93-21-093 | 434-19-101 | AMD-E | 93-14-081 | 434-50-035 | REP | 93-20-072 |
| 434-19-050 | REP | 94-01-004 | 434-19-101 | REP-P | 93-21-093 | 434-50-036 | NEW-E | 93-14-080 |
| 434-19-051 | REP-P | 93-21-093 | 434-19-101 | AMD-E | 93-22-066 | 434-50-036 | NEW-E | 93-14-107 |
| 434-19-051 | REP | 94-01-004 | 434-19-101 | REP | 94-01-004 | 434-50-037 | NEW-E | 93-14-080 |
| 434-19-052 | REP-P | 93-21-093 | 434-19-102 | REP-E | 93-14-081 | 434-50-037 | NEW-E | 93-14-107 |
| 434-19-052 | REP | 94-01-004 | 434-19-102 | REP-P | 93-21-093 | 434-50-038 | NEW-E | 93-14-109 |
| 434-19-053 | REP-P | 93-21-093 | 434-19-102 | REP-E | 93-22-066 | 434-50-040 | AMD-E | 93-14-080 |
| 434-19-053 | REP | 94-01-004 | 434-19-102 | REP | 94-01-004 | 434-50-040 | AMD-E | 93-14-107 |
| 434-19-054 | REP-P | 93-21-093 | 434-19-110 | REP-P | 93-21-093 | 434-50-040 | REP-P | 93-16-114 |
| 434-19-054 | REP | 94-01-004 | 434-19-110 | REP | 94-01-004 | 434-50-040 | REP | 93-20-072 |
| 434-19-055 | REP-P | 93-21-093 | 434-19-114 | AMD-E | 93-14-081 | 434-50-045 | AMD-E | 93-14-080 |
| 434-19-055 | REP | 94-01-004 | 434-19-114 | REP-P | 93-21-093 | 434-50-045 | AMD-E | 93-14-107 |
| 434-19-056 | AMD-E | 93-14-081 | 434-19-114 | AMD-E | 93-22-066 | 434-50-045 | REP-P | 93-16-114 |
| 434-19-056 | REP-P | 93-21-093 | 434-19-114 | REP | 94-01-004 | 434-50-045 | REP | 93-20-072 |
| 434-19-056 | AMD-E | 93-22-066 | 434-19-115 | REP-P | 93-21-093 | 434-50-050 | AMD-E | 93-14-080 |
| 434-19-056 | REP | 94-01-004 | 434-19-115 | REP | 94-01-004 | 434-50-050 | AMD-E | 93-14-107 |
| 434-19-059 | REP-P | 93-21-093 | 434-19-118 | AMD-E | 93-14-081 | 434-50-050 | REP-P | 93-16-114 |
| 434-19-059 | REP | 94-01-004 | 434-19-118 | REP-P | 93-21-093 | 434-50-050 | REP | 93-20-072 |
| 434-19-060 | REP-P | 93-21-093 | 434-19-118 | AMD-E | 93-22-066 | 434-50-055 | AMD-E | 93-14-080 |
| 434-19-060 | REP | 94-01-004 | 434-19-118 | REP | 94-01-004 | 434-50-055 | AMD-E | 93-14-107 |

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| WAC # | WSR # | WAC # | WSR # | WAC # | WSR # | | | |
|-------------|-------|-----------|-------------|-------|-----------|-------------|-------|-----------|
| 434-50-055 | REP-P | 93-16-114 | 434-110-075 | NEW-P | 93-16-114 | 434-120-305 | NEW-P | 93-21-093 |
| 434-50-055 | REP | 93-20-072 | 434-110-075 | NEW | 93-20-072 | 434-120-305 | NEW | 94-01-004 |
| 434-60-010 | NEW-P | 93-15-058 | 434-110-075 | AMD-P | 93-22-091 | 434-120-310 | NEW-P | 93-21-093 |
| 434-60-010 | NEW | 93-18-053 | 434-110-075 | AMD | 94-01-074 | 434-120-310 | NEW | 94-01-004 |
| 434-60-020 | NEW-P | 93-15-058 | 434-110-080 | NEW-P | 93-16-114 | 434-120-320 | NEW-P | 93-21-093 |
| 434-60-020 | NEW | 93-18-053 | 434-110-080 | NEW | 93-20-072 | 434-120-320 | NEW | 94-01-004 |
| 434-60-030 | NEW-P | 93-15-058 | 434-110-090 | NEW-P | 93-16-114 | 434-120-330 | NEW-P | 93-21-093 |
| 434-60-030 | NEW | 93-18-053 | 434-110-090 | NEW | 93-20-072 | 434-120-330 | NEW | 94-01-004 |
| 434-60-040 | NEW-P | 93-15-058 | 434-110-100 | NEW-P | 93-16-114 | 434-120-335 | NEW-P | 93-21-093 |
| 434-60-040 | NEW | 93-18-053 | 434-110-100 | NEW | 93-20-072 | 434-120-335 | NEW | 94-01-004 |
| 434-60-050 | NEW-P | 93-15-058 | 434-110-120 | NEW-P | 93-16-114 | 434-120-340 | NEW-P | 93-21-093 |
| 434-60-050 | NEW | 93-18-053 | 434-110-120 | NEW | 93-20-072 | 434-120-340 | NEW | 94-01-004 |
| 434-60-060 | NEW-P | 93-15-058 | 434-110-130 | NEW-P | 93-16-114 | 434-120-350 | NEW-P | 93-21-093 |
| 434-60-060 | NEW | 93-18-053 | 434-110-130 | NEW | 93-20-072 | 434-120-350 | NEW | 94-01-004 |
| 434-60-070 | NEW-P | 93-15-058 | 434-110-140 | NEW | 93-20-072 | 434-600-010 | NEW | 93-04-001 |
| 434-60-070 | NEW | 93-18-053 | 434-120-010 | NEW-P | 93-21-093 | 434-610-010 | NEW | 93-04-001 |
| 434-60-080 | NEW-P | 93-15-058 | 434-120-010 | NEW | 94-01-004 | 434-610-020 | NEW | 93-04-001 |
| 434-60-080 | NEW | 93-18-053 | 434-120-015 | NEW-P | 93-21-093 | 434-610-025 | NEW | 93-04-001 |
| 434-60-090 | NEW-P | 93-15-058 | 434-120-015 | NEW | 94-01-004 | 434-610-030 | NEW | 93-04-001 |
| 434-60-090 | NEW | 93-18-053 | 434-120-020 | NEW-P | 93-21-093 | 434-610-040 | NEW | 93-04-001 |
| 434-60-100 | NEW-P | 93-15-058 | 434-120-020 | NEW | 94-01-004 | 434-610-050 | NEW | 93-04-001 |
| 434-60-100 | NEW | 93-18-053 | 434-120-025 | NEW-P | 93-21-093 | 434-610-060 | NEW | 93-04-001 |
| 434-60-110 | NEW-P | 93-15-058 | 434-120-025 | NEW | 94-01-004 | 434-610-070 | NEW | 93-04-001 |
| 434-60-110 | NEW | 93-18-053 | 434-120-030 | NEW-P | 93-21-093 | 434-610-080 | NEW | 93-04-001 |
| 434-60-120 | NEW-P | 93-15-058 | 434-120-030 | NEW | 94-01-004 | 434-610-090 | NEW | 93-04-001 |
| 434-60-120 | NEW | 93-18-053 | 434-120-100 | NEW-P | 93-21-093 | 434-610-100 | NEW | 93-04-001 |
| 434-60-130 | NEW-P | 93-15-058 | 434-120-100 | NEW | 94-01-004 | 434-610-110 | NEW | 93-04-001 |
| 434-60-130 | NEW | 93-18-053 | 434-120-105 | NEW-P | 93-21-093 | 434-610-120 | NEW | 93-04-001 |
| 434-60-140 | NEW-P | 93-15-058 | 434-120-105 | NEW | 94-01-004 | 434-615-010 | NEW | 93-04-001 |
| 434-60-140 | NEW | 93-18-053 | 434-120-115 | NEW-P | 93-21-093 | 434-615-020 | NEW | 93-04-001 |
| 434-60-150 | NEW-P | 93-15-058 | 434-120-115 | NEW | 94-01-004 | 434-615-030 | NEW | 93-04-001 |
| 434-60-150 | NEW | 93-18-053 | 434-120-120 | NEW-P | 93-21-093 | 434-620-010 | NEW | 93-04-001 |
| 434-60-160 | NEW-P | 93-15-058 | 434-120-125 | NEW-P | 93-21-093 | 434-624-010 | NEW | 93-04-001 |
| 434-60-160 | NEW | 93-18-053 | 434-120-125 | NEW | 94-01-004 | 434-624-020 | NEW | 93-04-001 |
| 434-60-170 | NEW-P | 93-15-058 | 434-120-130 | NEW-P | 93-21-093 | 434-624-030 | NEW | 93-04-001 |
| 434-60-170 | NEW | 93-18-053 | 434-120-130 | NEW | 94-01-004 | 434-624-040 | NEW | 93-04-001 |
| 434-60-180 | NEW-P | 93-15-058 | 434-120-135 | NEW | 94-01-004 | 434-624-050 | NEW | 93-04-001 |
| 434-60-180 | NEW | 93-18-053 | 434-120-140 | NEW-P | 93-21-093 | 434-626-010 | NEW | 93-04-001 |
| 434-60-190 | NEW-P | 93-15-058 | 434-120-140 | NEW | 94-01-004 | 434-626-020 | NEW | 93-04-001 |
| 434-60-190 | NEW | 93-18-053 | 434-120-145 | NEW-P | 93-21-093 | 434-660-010 | NEW-P | 93-14-002 |
| 434-60-200 | NEW-P | 93-15-058 | 434-120-145 | NEW | 94-01-004 | 434-660-010 | NEW | 93-19-051 |
| 434-60-200 | NEW | 93-18-053 | 434-120-155 | NEW-P | 93-21-093 | 434-663-001 | NEW-P | 93-14-001 |
| 434-60-210 | NEW-P | 94-01-010 | 434-120-155 | NEW | 94-01-004 | 434-663-005 | NEW-P | 93-14-001 |
| 434-60-215 | NEW-P | 94-01-010 | 434-120-160 | NEW-P | 93-21-093 | 434-663-020 | NEW-P | 93-14-001 |
| 434-60-220 | NEW-P | 94-01-010 | 434-120-160 | NEW | 94-01-004 | 434-663-030 | NEW-P | 93-14-001 |
| 434-60-230 | NEW-P | 94-01-010 | 434-120-170 | NEW-P | 93-21-093 | 434-663-050 | NEW-P | 93-14-001 |
| 434-60-240 | NEW-P | 94-01-010 | 434-120-170 | NEW | 94-01-004 | 434-663-060 | NEW-P | 93-14-001 |
| 434-60-250 | NEW-P | 94-01-010 | 434-120-175 | NEW-P | 93-21-093 | 434-663-070 | NEW-P | 93-14-001 |
| 434-60-260 | NEW-P | 94-01-010 | 434-120-175 | NEW | 94-01-004 | 434-663-100 | NEW-S | 94-01-161 |
| 434-60-270 | NEW-P | 94-01-010 | 434-120-210 | NEW-P | 93-21-093 | 434-663-200 | NEW-S | 94-01-161 |
| 434-60-280 | NEW-P | 94-01-010 | 434-120-210 | NEW | 94-01-004 | 434-663-210 | NEW-S | 94-01-161 |
| 434-60-290 | NEW-P | 94-01-010 | 434-120-215 | NEW-P | 93-21-093 | 434-663-220 | NEW-S | 94-01-161 |
| 434-60-300 | NEW-P | 94-01-010 | 434-120-215 | NEW | 94-01-004 | 434-663-230 | NEW-S | 94-01-161 |
| 434-60-310 | NEW-P | 94-01-010 | 434-120-220 | NEW-P | 93-21-093 | 434-663-240 | NEW-S | 94-01-161 |
| 434-60-320 | NEW-P | 94-01-010 | 434-120-220 | NEW | 94-01-004 | 434-663-250 | NEW-S | 94-01-161 |
| 434-60-330 | NEW-P | 94-01-010 | 434-120-225 | NEW-P | 93-21-093 | 434-663-260 | NEW-S | 94-01-161 |
| 434-60-340 | NEW-P | 94-01-010 | 434-120-225 | NEW | 94-01-004 | 434-663-300 | NEW-S | 94-01-161 |
| 434-60-350 | NEW-P | 94-01-010 | 434-120-240 | NEW-P | 93-21-093 | 434-663-310 | NEW-S | 94-01-161 |
| 434-79-010 | AMD-E | 93-14-088 | 434-120-240 | NEW | 94-01-004 | 434-663-320 | NEW-S | 94-01-161 |
| 434-110-010 | NEW-P | 93-16-114 | 434-120-250 | NEW-P | 93-21-093 | 434-663-400 | NEW-S | 94-01-161 |
| 434-110-010 | NEW | 93-20-072 | 434-120-250 | NEW | 94-01-004 | 434-663-410 | NEW-S | 94-01-161 |
| 434-110-020 | NEW-P | 93-16-114 | 434-120-255 | NEW-P | 93-21-093 | 434-663-420 | NEW-S | 94-01-161 |
| 434-110-020 | NEW | 93-20-072 | 434-120-255 | NEW | 94-01-004 | 434-663-430 | NEW-S | 94-01-161 |
| 434-110-030 | NEW-P | 93-16-114 | 434-120-260 | NEW-P | 93-21-093 | 434-663-440 | NEW-S | 94-01-161 |
| 434-110-030 | NEW | 93-20-072 | 434-120-260 | NEW | 94-01-004 | 434-663-450 | NEW-S | 94-01-161 |
| 434-110-040 | NEW-P | 93-16-114 | 434-120-265 | NEW-P | 93-21-093 | 434-663-460 | NEW-S | 94-01-161 |
| 434-110-040 | NEW | 93-20-072 | 434-120-265 | NEW | 94-01-004 | 434-663-470 | NEW-S | 94-01-161 |
| 434-110-050 | NEW-P | 93-16-114 | 434-120-270 | NEW-P | 93-21-093 | 434-663-480 | NEW-S | 94-01-161 |
| 434-110-050 | NEW | 93-20-072 | 434-120-270 | NEW | 94-01-004 | 434-663-490 | NEW-S | 94-01-161 |
| 434-110-060 | NEW-P | 93-16-114 | 434-120-280 | NEW-P | 93-21-093 | 434-663-500 | NEW-S | 94-01-161 |
| 434-110-060 | NEW | 93-20-072 | 434-120-280 | NEW | 94-01-004 | 434-663-510 | NEW-S | 94-01-161 |
| 434-110-070 | NEW-P | 93-16-114 | 434-120-300 | NEW-P | 93-21-093 | 434-663-520 | NEW-S | 94-01-161 |
| 434-110-070 | NEW | 93-20-072 | 434-120-300 | NEW | 94-01-004 | 434-663-530 | NEW-S | 94-01-161 |

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| 446-60-090 | REP | 94-01-178 | 458-19-020 | NEW-P | 93-18-087 | 458-40-610 | PREP | 93-17-110 |
| 446-65-010 | AMD-P | 93-20-033 | 458-19-025 | NEW-P | 93-18-087 | 458-40-634 | PREP | 93-07-068 |
| 446-65-010 | AMD | 94-01-178 | 458-19-030 | NEW-P | 93-18-087 | 458-40-634 | AMD-P | 93-11-081 |
| 446-80-005 | NEW-P | 93-13-119 | 458-19-035 | NEW-P | 93-18-087 | 458-40-634 | AMD | 93-14-090 |
| 446-80-005 | NEW | 93-18-043 | 458-19-040 | NEW-P | 93-18-087 | 458-40-640 | PREP | 93-13-102 |
| 446-80-010 | NEW-P | 93-13-119 | 458-19-045 | NEW-P | 93-18-087 | 458-40-650 | PREP | 93-17-110 |
| 446-80-010 | NEW | 93-18-043 | 458-19-050 | NEW-P | 93-18-087 | 458-40-660 | AMD-P | 93-10-091 |
| 448-13-080 | AMD-P | 93-18-013 | 458-19-055 | NEW-P | 93-18-087 | 458-40-660 | AMD | 93-14-051 |
| 448-13-210 | AMD-P | 93-18-013 | 458-19-060 | NEW-P | 93-18-087 | 458-40-660 | AMD-P | 93-22-097 |
| 458-12-010 | AMD-P | 93-05-016 | 458-19-065 | NEW-P | 93-18-087 | 458-40-670 | AMD-P | 93-10-091 |
| 458-12-010 | AMD | 93-08-049 | 458-19-070 | NEW-P | 93-18-087 | 458-40-670 | AMD | 93-14-051 |
| 458-12-240 | REP-P | 93-05-016 | 458-19-075 | NEW-P | 93-18-087 | 458-40-670 | PREP | 93-19-155 |
| 458-12-240 | REP | 93-08-049 | 458-19-080 | NEW-P | 93-18-087 | 458-40-670 | AMD-P | 93-22-097 |
| 458-12-342 | AMD-P | 93-05-016 | 458-20-101 | PREP | 93-02-046 | 458-40-690 | PREP | 93-09-029 |
| 458-12-342 | AMD | 93-08-049 | 458-20-101 | AMD-P | 93-08-013 | 458-53-160 | PREP | 93-24-037 |
| 458-14-015 | AMD-P | 93-05-015 | 458-20-101 | AMD | 93-13-126 | 458-53-160 | AMD-E | 93-24-038 |
| 458-14-015 | AMD | 93-08-050 | 458-20-102 | AMD-E | 93-13-085 | 458-53-160 | AMD-P | 94-01-168 |
| 458-14-025 | AMD-P | 93-05-015 | 458-20-102 | PREP | 93-17-086 | 458-61 | PREP | 93-18-017 |
| 458-14-025 | AMD | 93-08-050 | 458-20-102 | AMD-E | 93-21-056 | 458-61-010 | REP-E | 93-14-015 |
| 458-14-026 | NEW-P | 93-05-015 | 458-20-115 | PREP | 93-12-111 | 458-61-010 | REP-E | 93-21-067 |
| 458-14-026 | NEW | 93-08-050 | 458-20-115 | AMD-P | 93-15-064 | 458-61-010 | REP-P | 93-24-115 |
| 458-14-127 | AMD-P | 93-05-015 | 458-20-115 | AMD | 93-19-017 | 458-61-015 | NEW-E | 93-14-015 |
| 458-14-127 | AMD | 93-08-050 | 458-20-116 | PREP | 93-12-112 | 458-61-015 | NEW-E | 93-21-067 |
| 458-14-170 | AMD-P | 93-05-015 | 458-20-116 | AMD-P | 93-15-065 | 458-61-015 | NEW-P | 93-24-115 |
| 458-14-170 | AMD | 93-08-050 | 458-20-116 | AMD | 93-19-018 | 458-61-020 | REP-E | 93-14-015 |
| 458-14-171 | NEW-P | 93-05-015 | 458-20-117 | PREP | 93-12-113 | 458-61-020 | REP-E | 93-21-067 |
| 458-14-171 | NEW | 93-08-050 | 458-20-117 | AMD-P | 93-15-066 | 458-61-020 | REP-P | 93-24-115 |
| 458-16 | PREP | 93-18-066 | 458-20-117 | AMD | 93-19-019 | 458-61-025 | NEW-E | 93-14-015 |
| 458-16-100 | AMD-P | 94-01-169 | 458-20-119 | AMD-P | 93-07-069 | 458-61-025 | NEW-E | 93-21-067 |
| 458-16-110 | AMD-P | 94-01-169 | 458-20-119 | AMD-C | 93-18-079 | 458-61-025 | NEW-P | 93-24-115 |
| 458-16-111 | AMD-P | 94-01-169 | 458-20-119 | AMD | 93-23-019 | 458-61-030 | AMD-E | 93-14-015 |
| 458-16-130 | AMD-P | 94-01-169 | 458-20-121 | PREP | 93-17-085 | 458-61-030 | AMD-E | 93-21-067 |
| 458-16-150 | AMD-P | 94-01-169 | 458-20-121 | AMD-P | 94-01-155 | 458-61-030 | AMD-P | 93-24-115 |
| 458-16-160 | NEW-E | 93-16-012 | 458-20-122 | PREP | 93-16-086 | 458-61-040 | REP-E | 93-14-015 |
| 458-16-165 | NEW-E | 93-23-079 | 458-20-124 | AMD-P | 93-07-070 | 458-61-040 | REP-E | 93-21-067 |
| 458-16-165 | NEW-P | 94-01-169 | 458-20-124 | AMD-C | 93-18-080 | 458-61-040 | REP-P | 93-24-115 |
| 458-16-180 | AMD-P | 94-01-169 | 458-20-124 | AMD | 93-23-018 | 458-61-050 | AMD-E | 93-14-015 |
| 458-16-190 | AMD-P | 94-01-169 | 458-20-125 | PREP | 93-16-083 | 458-61-050 | AMD-E | 93-21-067 |
| 458-16-200 | AMD-P | 94-01-169 | 458-20-149 | REP | 93-03-005 | 458-61-050 | AMD-P | 93-24-115 |
| 458-16-210 | AMD-E | 93-16-012 | 458-20-150 | PREP | 93-12-114 | 458-61-060 | AMD-E | 93-14-015 |
| 458-16-210 | AMD-E | 93-23-079 | 458-20-150 | AMD-P | 93-15-067 | 458-61-060 | AMD-E | 93-21-067 |
| 458-16-210 | AMD-P | 94-01-169 | 458-20-150 | AMD | 93-19-020 | 458-61-060 | AMD-P | 93-24-115 |
| 458-16-220 | AMD-P | 94-01-169 | 458-20-165 | PREP | 93-16-084 | 458-61-070 | AMD-E | 93-14-015 |
| 458-16-230 | AMD-P | 94-01-169 | 458-20-165 | AMD-P | 94-01-156 | 458-61-070 | AMD-E | 93-21-067 |
| 458-16-240 | AMD-E | 93-16-012 | 458-20-166 | PREP | 93-17-084 | 458-61-070 | AMD-P | 93-24-115 |
| 458-16-240 | AMD-E | 93-23-079 | 458-20-166 | AMD-P | 94-01-157 | 458-61-080 | AMD-E | 93-14-015 |
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