WAC 296-24-37015  Fixed electrostatic apparatus.  (1) Conform-
ance. Where installation and use of electrostatic spraying equipment
is used, such installation and use must conform to all other require-
ments contained in WAC 296-24-370 through 296-24-37027.

(2) Type approval. Electrostatic apparatus and devices used in
connection with coating operations must be of approved types.

(3) Location. You must locate transformers, power packs, control
apparatus, and all other electrical portions of the equipment, with
the exception of high-voltage grids, electrodes, and electrostatic
atomizing heads and their connections, outside of the spraying area,
or they must otherwise conform to the requirements of WAC
296-24-37005.

(4) Support. You must adequately support electrodes and electro-
static atomizing heads in permanent locations and you must effectively
insulate them from the ground. Electrodes and electrostatic atomizing
heads which are permanently attached to their bases, supports, or re-
ciprocators, must be deemed to comply with this section. Insulators
must be nonporous and noncombustible.

(5) Insulators, grounding. You must properly insulate and protect
high-voltage leads to electrodes from mechanical injury or exposure to
destructive chemicals. You must effectively and permanently support
electrostatic atomizing heads on suitable insulators and you must ef-
fectively guard them against accidental contact or grounding. You must
provide an automatic means for grounding the electrode system when it
is electrically deenergized for any reason. You must keep all insula-
tors clean and dry.

(6) Safe distance. You must maintain a safe distance between
goods being painted and electrodes or electrostatic atomizing heads or
conductors of at least twice the sparking distance. You must conspicu-
ously post a suitable sign indicating this safe distance near the as-
sembl y.

(7) Conveyors required. Goods being painted using this process
are to be supported on conveyors. You must arrange the conveyors so as
to maintain safe distances between the goods and the electrodes or
electrostatic atomizing heads at all times. You must rigidly support
any irregularly shaped or other goods subject to possible swinging or
movement to prevent such swinging or movement which would reduce the
clearance to less than that specified in (6) of this section.

(8) Prohibition. This process is not acceptable where goods being
coated are manipulated by hand. When finishing materials are applied
by electrostatic equipment which is manipulated by hand, see WAC
296-24-37017 for applicable requirements. (Rev. 1-23-76)

(9) Fail-safe controls. You must equip electrostatic apparatus
with automatic controls which will operate without time delay to dis-
connect the power supply to the high voltage transformer and to signal
the operator under any of the following conditions:

(a) Stoppage of ventilating fans or failure of ventilating equip-
ment from any cause.

(b) Stoppage of the conveyor carrying goods through the high
voltage field.

(c) Occurrence of a ground or of an imminent ground at any point
on the high voltage system.

(d) Reduction of clearance below that specified in (6) of this
section.

(10) Guarding. You must place adequate booths, fencing, railings,
or guards about the equipment that they, either by their location or
character or both, assure that a safe isolation of the process is
(11) **Ventilation.** Where electrostatic atomization is used the spraying area must be so ventilated as to insure safe conditions from a fire and health standpoint.

(12) **Fire protection.** You must protect all areas used for spraying, including the interior of the booth, by automatic sprinklers where this protection is available. Where this protection is not available, you must provide other approved automatic extinguishing equipment.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 15-24-100, § 296-24-37015, filed 12/1/15, effective 1/5/16; Order 76-6, § 296-24-37015, filed 3/1/76; Order 73-5, § 296-24-37015, filed 5/9/73 and Order 73-4, § 296-24-37015, filed 5/7/73.]