

# **Maintenance Accountability Process (MAP)**

## **Background Information on Targets Missed**

### **CY 2013**

**Greg Selstead, P.E.**  
Asst. State Maintenance Engineer

**Rico Baroga**  
Maintenance Policy Manager

February 2014

# Keller Ferry Operations

## Here's What Maintenance Does:

- Operating the Keller Ferry service across Lake Roosevelt, connecting parts of SR 21

## Here's How Maintenance Measures:

- Level of Service Descriptions: Annual hours of operational downtime
  - LOS A = 40 or less
  - LOS B = 41 to 80
  - LOS C = 81 to 165
  - LOS D = 166 to 360
  - LOS F = more than 360 ← CY 2013

## The Work Accomplished: N/A

- Work units are not applicable to this maintenance activity



# Urban Tunnel System Operation

## Here's What Maintenance Does:

- Completes preventive maintenance on tunnel components, repairs and operates systems

## Here's How Maintenance Measures:

- Total number of annual closures to flammable loads
  - LOS A = 0 - 5
  - LOS B = 6 - 10 ← CY 2013 Results
  - LOS C = 11 - 25
  - LOS D = 26 - 50
  - LOS F = 50 or more
- Total Number of Closures = 9
  - Preventive Maintenance Closures = 4 (Planned)
  - Corrective/Repair Closures = 5 (Unplanned)

## The Work Accomplished:

- Preventive maintenance tasks completed
  - CY 13 Planned PM Tasks = 2,108
  - CY 13 Delivered PM Tasks = 2,009 (95%)
    - Test Fire Suppression & HVAC Systems
    - Testing Emergency Phone Systems



I-90 Mt. Baker Tunnel

# Structural Bridge Repair

## Here's What Maintenance Does:

- Repairing structural bridge deficiencies including damaged expansion joints, truss members, piers, and other structural components

## Here's How Maintenance Measures:

- The percentage of priority one repairs completed
  - LOS A = 90% - 100%
  - LOS B = 80% - 89%
  - LOS C = 65% - 79%
  - LOS D = 50% - 64%** ← **CY 2013 Results**
  - LOS F = 50% or less

## The Work Accomplished:

- CY 13 Planned Priority 1 Tasks = 586
- CY 13 Delivered Priority 1 Tasks = 317 **(54%)**
  - High cost/long duration repairs impact delivery

### Example:

- SR 169 Green River Gorge Expansion Joint
- Step 1 + Step 2 + Step 3 = 1 Task Complete**

Step 1: →  
Containment  
Preparation



← Step 2:  
Containment  
Complete

Step 3: →  
Install  
Expansion Joint



# Slope Repair

## Here's What Maintenance Does:

- Removal of slope erosion materials from ditches and road shoulders as well as repair of undermined road shoulders

## Here's How Maintenance Measures:

- Percentage of centerline miles with slides or erosion encroaching on, or undermining the shoulder or traveled way.

LOS A = 0 - 2% ← CY 2013

LOS B = 2.1% - 4%

LOS C = 4.1% - 7%

LOS D = 7.1% - 10%

LOS F = more than 10%

## The Work Accomplished: N/A

- Work units are not applicable to this maintenance activity



# Pavement Striping Maintenance

## Here's What Maintenance Does:

- Re-painting stripes, or lane lines (i.e. skip lines, edge lines) when existing lane lines are worn

## Here's How Maintenance Measures:

- Level of Service Descriptions: Percentage of reflectivity readings that are greater than the acceptable standard (90 RL)
  - LOS A = 90% or more
  - LOS B = 70 to 89.9%
  - LOS C = 40 to 69.9% ← CY 2013
  - LOS D = 20 to 39.9%
  - LOS F = less than 20%

## The Work Accomplished:

- Work Units: Number of line miles re-painted
  - 2013 Planned Units = 25,596
  - 2013 Delivered Units = 24,501 (96%)



# Ditch Maintenance

## Here's What Maintenance Does:

- Clean and reshape ditches to help ensure adequate flow of highway runoff from roadway

## Here's How Maintenance Measures:

- Percentage of ditches greater than 50% filled with sediment and/or debris

LOS A = 0 – 1%

LOS B = 1.1% - 5% ← **CY2012**

LOS C = 5.1% - 10%

LOS D = 10.1% - 15%

LOS F = more than 15%

## The Work Accomplished: N/A

- Work units are not applicable to this maintenance activity

