

**MEMORANDUM FOR THE RECORD 17 MCN 003 Oregon Ladder Exit Screens**

**SUBJECT:** Removal of Oregon shore ladder exit traveling screens from service.

On December 16, the roving operator found the wash pump supply and discharge lines frozen. See photos below. The pump flushes debris from the travelling screens' debris trough to the river. The pump and traveling screens were set to run for 20 minutes once every 6 hours. Without this pump, debris can accumulate in the trough and possibly jam the screens. The operator used the PLC to turn the wash pump and both travelling screens off. Trash rack and screen differentials before and after the screens were removed from service measured 0.0 to 0.3 feet. On December 23, the operators also used to the screens' switches to insure the screens remained off. The biologists will continue to monitor the differentials until the Oregon shore ladder is removed from service on January 27. Debris loads are minimal so a change in differential recordings is very unlikely. Also, it is highly doubtful the pipes will thaw out before January 27. The NOAA weather website, <http://forecast.weather.gov/>, shows highs from 28 to 34 degrees F and lows from 19 to 22 degrees F for the 23<sup>rd</sup> to 27<sup>th</sup>. Please see photos below.

- A. Species – NA
- B. Origin – NA
- C. Length – NA
- D. Marks and tags – NA
- E. Marks and Injuries found on carcass – NA
- F. Cause and Time of Death – NA
- G. Future and Preventative Measures – Purchase of a new wash pump is scheduled for the near future. Possibly relief from freezing can be installed with the new pump. Debris loads in the winter are minimal. Possibly the pump and screens should be removed from service during cold weather and differentials monitored closely. Then only run the system when needed.

Sincerely,

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Photo 1: Wash Pump.



Photo 2: Debris Trough.



Photo 3: Debris Trough Again.



Photo 4: Debris Trough Exit.



Photo 5: Debris Trough Exit Again.

