

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 17 MCN 001 Trash Rack Raking McNary - January 2017

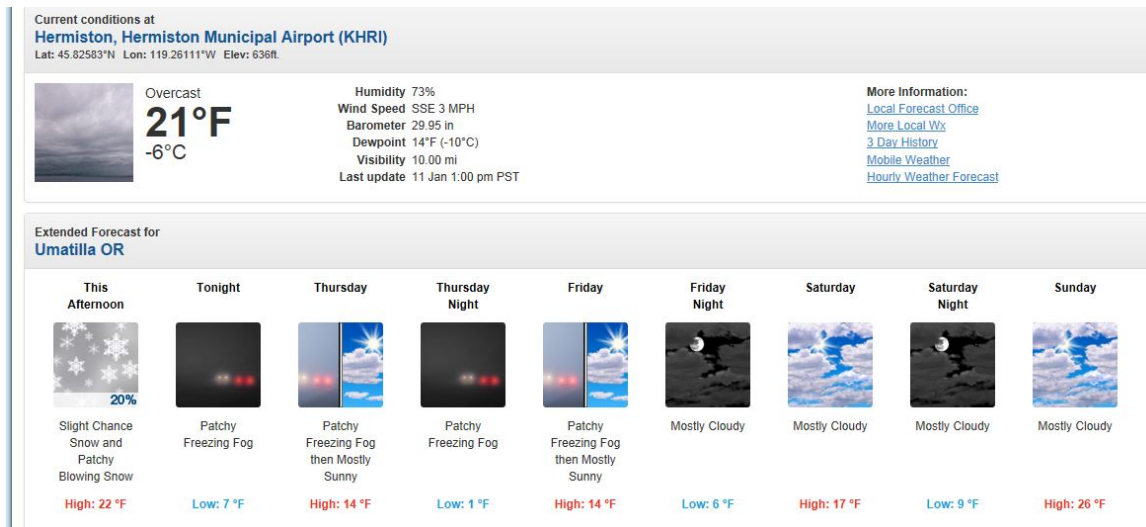
COORDINATION DATE- January 11, 2017

PROJECT- McNary Lock and Dam

RESPONSE DATE- FPOM Meeting, January 12, 2017





Description of the problem- Trash raking has not yet occurred at McNary project during this winter maintenance period and will not be able to be completed by 16 January as required in the Fish Passage Plan, page MCN-9 through MCN-10, “2.3.2. Winter Maintenance Period (December 16 – March 31). Check and perform maintenance as required on items below. Prior to January 16, inspect or rake up to four trashracks to determine if debris is present. Prioritize raking trashracks at units with known debris issues and longer run times, and ensure to the extent practicable that raked units are distributed evenly across the powerhouse.”

Trash raking was scheduled to be performed from 9 January through 12 January 2017 but was canceled due to inclement weather. Weather for this week is given below.



(Data provided by NOAA. <http://forecast.weather.gov/MapClick.php?lat=45.91734669400046&lon=-119.3425158609997#.WHajrDa7paQ>)

McNary is requesting to implement trash raking during the week of 17 January through 19 January 2017. Projected 10 day weather forecast for those dates is expected to be above freezing. Daily highs are shown below.

TUE JAN 17		Light Freezing Rain	32°/30°	60%	E 6 mph	99%
WED JAN 18		Showers	46°/36°	60%	SSW 11 mph	84%
THU JAN 19		Mostly Cloudy	43°/32°	20%	SSW 10 mph	82%
FRI JAN 20		Mostly Cloudy	41°/30°	20%	SW 9 mph	79%

(Data provided by The Weather Channel. <https://weather.com/weather/tenday/1/Umatilla+OR+97882:4:US>)

The impacts of moving the trash raking to this new time period, which is one week removed, should be insignificant due to the present operations and conditions on project. Currently, the ESBS's in all slots are raised, the juvenile collection channel is dewatered for winter maintenance and the Washington Fish Ladder is out of service. Visual debris examinations show minimal surface debris. The trash rack differential report completed on 9 January, indicates the highest trash differential to be a 1.2 feet. Fourteen differentials measured 1.0 feet and four measured 1.1 feet. All other differentials were below 1.0 feet. The load on the units was averaging 70 MW's on all available units. The highest trash rack differential recorded in January was 1.3 feet. These differential readings at units loads of 70 MW's or higher have not indicated a debris loading problem on the trash racks in the past.

This scheduled trash rack cleaning was implemented to insure the safe passage of juvenile lamprey. Only five macrophthalmia mortalities were found during last cooling water strainer examination completed on 3 January, which would indicate lamprey passage is low at this time.

Type of outage required- Generic one unit outage for trash rack cleaning. This will not require a fish passage facility outage.

Impact on facility operation - Results of the test trash raking will determine if more raking is needed.

Dates of impacts/repairs- 17 January through 19 January, hours of operation (0700-1700)

Length of time for repairs- Test racking will take about four hours. If trash rack cleaning is required, the entire operation should take about 8 hours per day, and no more than 3 consecutive days.

Expected impacts on fish passage- There should be minimal impacts on fish.

Comments from agencies

FPOM members concurred with this action

Final results

Bobby Johnson; On the 18th [of January], we tested five slots: 1B, 5A, 7A, 7B and 10A. We removed approximately 3/4 of a 10 yard truck load totally. No lamprey or salmonids were seen in the debris. The differentials measured 1.0 to 1.4 feet on the 17th at 73 to 77 MW.

Please email or call with questions or concerns.

Thank you,

Bobby Johnson

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