

**OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE**

COORDINATION TITLE- 15 MCN 12 Commissioning N WASCO PUD

Hydroelectric Project

COORDINATION DATE- October 15, 2015

PROJECT- McNary Dam

RESPONSE DATE- November 12, FPOM meeting

Description of the problem

On or about February 19th 2016, Northern Wasco County and Klickitat County PUD's hydroelectric project at McNary Dam will have completed work replacing the project's turbine runner and its control system. A commissioning process taking about 12 days will be undertaken that could disrupt the attraction water for the North Shore Fishladder at the Federal dam site.

During the first two days of the commissioning, the unit will be run at less than capacity for a number of hours to determine heat rise on the unit bearings and to ascertain the conditions of the operation parts. During those periods, the total volume of water needed to supply the fishladder for its normal operations will be reduced by up to half. By using water from the current bypass system at the project, the operators will be able to make up the remainder of the water needed to bring the fishladder flows to normal.

There will be short periods of time during those operations, while setting up and terminating the test conditions and then adjusting the auxiliary supply, when the flows to the ladder will be reduced. We expect those timeframes to be less than 10 minutes, 4 to 5 times during the first two days of commissioning work.

The rest of the commissioning process is simply 10 continuous days of operation at normal operating capacity and flow. It is possible that during that 10 day period, a control system issue could necessitate shutting down. If that happens, the bypass system would be used to provide auxiliary flow to the ladder.

Type of outage required

Reduction in North ladder auxiliary flow as outlined above. This is a concern because the south ladder is scheduled for outage in February and the two activities could coincide.

Impact on facility operation

This work will result in reduced auxiliary water to the north fish ladder for short periods of time (10 minutes) 4 or 5 times in the first two days of the commissioning/testing process.

Dates of impacts/repairs

Approximately February 19 to March 3, 2016.

Length of time for repairs

About 12 days, 2 days with 4 to 5 short disruptions to auxiliary flow, 10 days with potential for flow disruption but with bypass system in standby.

Expected impacts on fish passage

Impacts are expected to be minimal. Ladder will be fed with the bypass system when flow through the unit is reduced. During the transition periods, starting or stopping a test, auxiliary flow will be reduced. There are still fish in the river and migrating but counting in November is only done every five years. Below are the numbers from 2012 and you can see there are very few fish counted in February.

McNary Dam fish passage- Washington Shore ladder													By Month	
2012	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	Adult Coho	Jack Coho	Coho	Sockeye	Chum	Pink	Number	Percent
Nov	896	647	249	612	405	207	278	278	0	0	0	0	3572	85%
Dec	79	78	1	109	59	50	24	24	0	0	0	0	424	10%
Jan	6	6	0	6	3	3	0	0	0	0	0	0	24	1%
Feb	-1	-1	0	88	46	42	1	1	0	0	0	0	176	4%
Total	980	730	250	815	513	302	303	303	0	0	0	0	4196	100%

Comments from agencies

Final results

Please email or call with questions or concerns.

Thank you,