

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

COORDINATION TITLE- 21 MCN 03 South Shore Fish Pump Outage

COORDINATION DATE- March 11, 2021

PROJECT- McNary

RESPONSE DATE- March 15, 2021

Description of the problem: The Fish Pump Rehab PDT wants to run a test on Fish Pump 1 through its operational range from blades flat to steep for data collection this coming Tuesday, 3/16. Prior to testing we must shut off pumps 2 and 3 to put in the discharge stoplogs. We propose to install stoplogs Monday, test Tuesday morning, and then remove stoplogs Tuesday afternoon to return the ladder to normal service.

Type of outage required: South shore fish ladder will be out of criteria for approximately 29 hours. Pumps 2 and 3 will be taken out of operation (Pump 1 remains in operation) starting Monday 3/15 1000 hrs to install stoplogs. Installing stoplogs takes about 6 hours. Pump 1 will be out of operation for approximately one hour, 0800 to 0900 hrs Monday, as part of the test but then operational for the duration. Stoplogs will be removed 1200 to 1500 hrs Tuesday 3/16, after which the south shore fishway should return to normal operation.

Impact on facility operation (FPP deviations): The south shore fish ladder will be out of criteria for 29 hours.

Impact on unit priority: None on unit priority.

Impact on forebay/tailwater operation: None on water elevations.

Impact on spill: None.

Dates of impacts/repairs: March 15 to 16.

Length of time for repairs: 29 hours.

Analysis of potential impacts to fish

1. Adult fish are generally not counted at McNary in March. The last time fish were counted was March of 2017. Looking at DART data for total passage, no spring Chinook salmon had passed in this time frame, March 15 to 16. Adult steelhead counts were 127 hatchery and 9 wild fish for the two days. With the ladder running in criteria the morning of the 15th and back in criteria the afternoon of the 16th along with the north shore ladder being fully functional, the overall delaying fish passage should be minimal. Fish Pump 1 will be operational about 20 of the 29 hrs.

2. There will be no impact on juvenile fish passage.

Summary statement - expected impacts on:

Upstream migrants (including Bull Trout): Attraction flow to the south shore fishway will be reduced potentially resulting in delayed adult passage.

Downstream migrants: None.

Lamprey: None

Comments from agencies

Final coordination results

After Action update

Fish pumps 2 and 3 were removed from service on March 15 at 1000 hours. Discharge logs were installed. Fish pump 1's blade angle was increased to 31 degrees. NFEW3 was raised to facilitate good pool differential flow. A ladder inspection at 1400 hours revealed NFEW2 to be at 7.9 feet, SFEW1 at 6.3 feet and SFEW2 at 6.4 feet of depth. Both pool differentials measured 1.4 feet. Various discharge volumes were measured for fish pump 1 the morning of March 16. After these tests were completed, the discharge logs were removed from fish pump 2, which returned to service at 1422 hours. NFEW3 was also lowered at this time. Next, discharge flows were examined for two operational fish pumps. After these tests were completed, discharge logs were removed from fish pump 3, which returned to service at 1609 hours. The ladder control system indicated all inspection points were in criteria.

Please email or call with questions or concerns.

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