3OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE – 22 LWG 03 Navlock Guide wall
COORDINATION DATE – 9 March 2022
PROJECT - Lower Granite Dam
RESPONSE DATE – 23 March 2022

Description of the problem- Replacement of one of the upstream guide wall primary cables is required as soon as possible. LWG upstream navlock guidewall was inspected the end of February 2022. The dive inspection revealed one of the primary cables was severed and the floating guide wall was being held in place by the safety line. A failure would result in an extended spillway outage to retrieve and repair the wall and possibly damage the spillway should it break loose. To prevent this, LWG is working with Walla Walla District to obtain funds and expedite contracting to install a temporary line to prevent safety failure.

This work will require dive operations in the forebay in front of the spillway to attach the temporary line to the existing anchor point. It is expected the work will take about three days to complete. Spillway outages will need to be scheduled for two consecutive days during this work window to support safe dive activities. LWG is optimistically hoping for funding and contracting to be in place prior to April 15 with the earliest date possibly being March 28.

Spillway outages will be between 0700 and 1630 hours with the two dates to be determined when the contract process in complete. It is expected that dive operations requiring spillway outages will be less than 10 hours. The two-day outage is being scheduled and coordinated to account for any unforeseen events such as high turbidity, high wind or excessive debris. In the event debris load creates unsafe dive condition an emergency debris spillway will occur prior to the dive.

Type of outage required- Two consecutive days of scheduled spillway outages from 0700-1630 hours.

Impact on facility operation (FPP deviations)- Spring spill operations will be impacted.

Impact on unit priority- N/A

Impact on forebay/tailwater operation- Different tailrace conditions will occur with no spill.

Impact on spill- Spill will not occur during dive operations.

Dates of impacts/repairs- Two days for repair completion TBD.

Length of time for repairs- Two days.

Analysis of potential impacts to fish

1. 10-year average passage by run during the period of impact for adults and juvenile listed species, as appropriate for the proposed action and time of year;

   The ten-year average daily juvenile passage by species is in Table 1.

2. Statement about the current year's run (e.g., higher or lower than 10-year average);

   No data available on the current year's run.

3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);

   Percent of the run by species is listed in Table 1. The number of smolts passing LWG and percent of the run impacted will be less than half of what is listed in Table 1. Based on juvenile hourly counts at LWG smolts primarily pass the dam during the nighttime hours.

4. Type of impact by species and age class (increased delay, exposure to predation, exposure to a route of higher injury/mortality rate, exposure to higher TDG, etc.);

   Some delay may occur as juvenile fish are routed from the spillway to the bypass system. The spillway will be returned to service daily when dive work is complete minimizing impact to smolt passage.

Summary statement - expected impacts: N/A

Downstream migrants: Juvenile fish will be routed to the bypass system during the spillway outage.

Upstream migrants (including Bull Trout): The adult fish ladder and collection channel will not be impacted. River flow will be channeled through the powerhouse during dive operations.

Lamprey: N/A

Comments from agencies:

Final coordination results:

After Action update:

Please email or call with questions or concerns.

Thank you,
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Table 1. Average 10-year Smolt passage 28 March thru 15 April (2012-2021), average annual smolt passage, and proportion of run.

	Yearling Chinook	Sub-yearling Chinook	Steelhead	Sockeye	Coho
10-year average	388,274	9,944	363,096	4,138	4,148
Average 10-year total	3,269,868	897,367	2,874,744	79,344	112,094
% 10-year annual average	11.9%	1.1%	12.6%	5.2%	3.7%