

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE – 22 LWG 13 MOC Primary Dewaterer Maintenance Bench and Ramp Construction

COORDINATION DATE – 27 October 2022

PROJECT - Lower Granite Dam

RESPONSE DATE – 31 October 2022

Description of the problem- Access to the primary dewaterer (PDW) main valves on the lower section of the structure was not completed during the initial primary bypass system construction. To rectify this, an access ramp and work platform will be added below the PDW, which will require some excavation in the vicinity of the fishway. Lower Granite Dam (LWG) developed the contract and included date and time restrictions (below) for excavation and drilling near the fish ladder however, because key personnel were deployed in response to recent weather emergencies, the schedule was not coordinated in a timely manner. Work on this project began this week (of October 24) with hand shoveling and small-scale scraping and substrate material tests. Excavation work begins on 31 October with an anticipated completion before Thanksgiving. Shotcrete drilling is scheduled to be completed during the winter maintenance period and March. Excavation and drilling for shotcrete are the primary activities that may impact fish passage due to the vicinity of the fish ladder.

1.3 SITE CONDITIONS AND OPERATIONAL RESTRICTIONS

1. From NTP to 31 December 2022, activities such as drilling rock anchors for shotcrete and rock excavation shall only be conducted between 12:00pm and 5:00am.
2. From 01 January 2023 to 28 February 2023, there are no work restrictions on noise or vibration.
3. From 01 March 2023 until project completion, activities such as drilling rock anchors for shotcrete and rock excavation shall only be conducted between 12:00pm and 5:00am.

Type of outage required- N/A

Impact on facility operation (FPP deviations)- Excavation and drilling work will be completed within 50' of the adult fish ladder (FPP, Chapter 9, 2.1.2.).

Impact on unit priority- N/A

Impact on forebay/tailwater operation- N/A

Impact on spill- N/A

Dates of impacts/repairs- Excavation and drilling work is expected to be done Monday through Friday from 1200-1700 hours, except for during the winter maintenance period. Some night work may occur depending on unforeseen delays related to weather or equipment availability.

Length of time for repairs- Excavation will take place 31 October through Thanksgiving. Shotcrete drilling is scheduled to be completed during the winter maintenance period and March.

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 10-year average daily counts for 31 October through 31 December include 8 adult Chinook salmon, 114 steelhead and 13 coho salmon. Counts were not conducted 15-31 December in 2012. The 10-year average daily counts for 1-31 March includes 121 steelhead.
2. Statement about the current year's run (e.g., higher or lower than 10-year average);
Counts at LWG through 26 October are above the 10-year average for fall Chinook salmon (127%) and Coho salmon (164%) and below the 10-year average for steelhead (82%). At this time, adult spring migrant estimates are unknown, but excavation and drilling will be concluded prior to the anticipated peak passage dates for those runs.
3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);
The 10-year average count indicates that approximately 8% of steelhead and 11% of adult coho salmon run may be impacted during the 31 October through 31 December period. Additionally, approximately 4% of the 10-year average steelhead run will be impacted during the March 1-31 period. Impacts to adult Chinook salmon are anticipated to be negligible as most fish have already passed during the October work and have not arrived yet for the March work. Additionally, impacts for adults are expected to be much lower due to work being performed after 1200 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.);
Adult fish may experience delay during excavation work, but impacts are expected to be minimal.

Summary statement - expected impacts: N/A

Downstream migrants: There will be no impact to juvenile fish passage.

Upstream migrants (including Bull Trout): Monthly count data suggests that the majority of bull trout pass in May and June. Minimal delays are expected during excavation and drilling work.

Lamprey: Impacts are unknown but expected to be negligible.

Comments from agencies:

Please email or call with questions or concerns.

Thank you,
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