

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

COORDINATION TITLE- 17 LWG 20 Lower Granite Lock and Dam – JBS Phase 1a Construction

COORDINATION DATE- 14 August 2017

PROJECT- Lower Granite Lock and Dam

RESPONSE DATE- 23 August 2017

Description of the problem – As part of the Lower Granite Dam JBS upgrade project, an existing 4” potable water line needs to be disconnected and a temporary above-ground line installed. This temporary waterline is necessary to support installation of new underground fish and water pipe between the dam and new primary dewatering structure during the extended JBS outage.

To connect the temporary above-ground water line to the existing line (Figure 1), two holes will be dug in proximity to the adult ladder. The connection at the western end will be directly adjacent to the lower ladder near where the existing waterline crosses the ladder. The eastern connection will be made on the tailrace deck which is greater than 50’ from the upstream end of the ladder (ladder is vertically well separated from the eastern/upstream connection point; however <~50’ horizontally).

While the Contractor is required to conduct large ground disturbing activities at night (FPOM MOC 16 LWG 010, 13 LWG 17), this activity needs to occur prior to upcoming large fish and water pipe installation efforts in the area and needs to be performed by an experienced equipment operator familiar with project. Due to OSHA related shift scheduling requirements, it would be difficult to find a suitable operator to conduct this work at night on the necessary timeline.

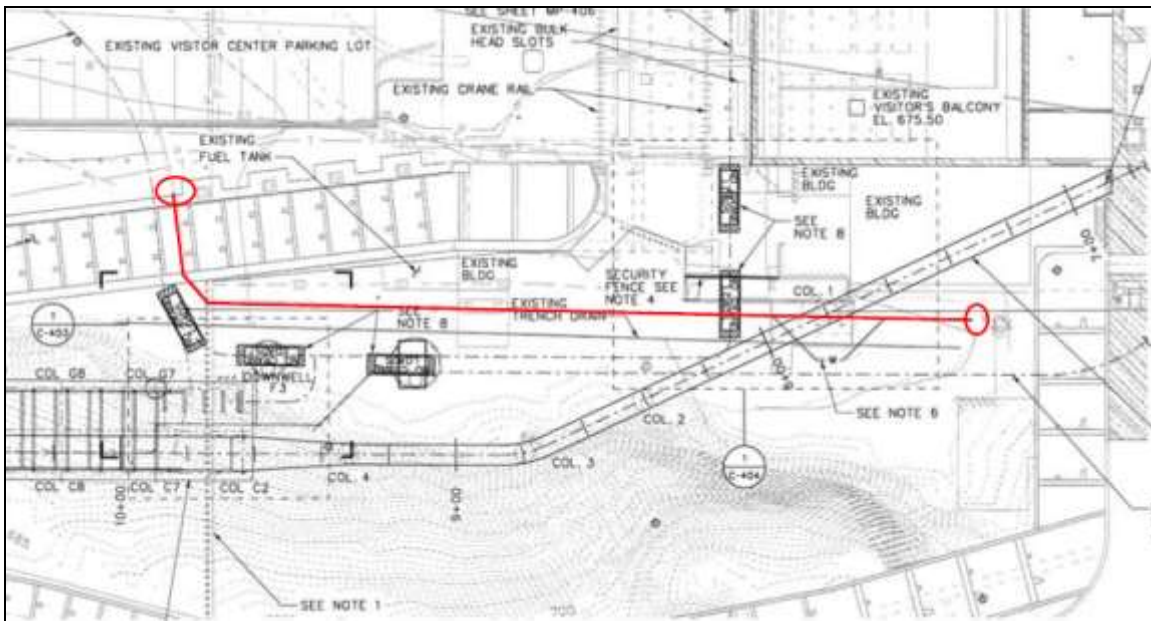


Figure 1. Layout of Lower Granite Dam tailrace along south shore. The red line depicts the routing of the existing 4” potable water supply line in the vicinity of the new underground Phase 1a components being installed during the extended JBS outage currently underway. The circles indicate where digging needs to occur during the day to hook up the new temporary potable water line.



Photo 1. Installation of the above ground temporary potable water line and connection to the existing water line will occur on the north side of the ladder.

Type of outage required – No outages required

Impact on facility operation (FPP deviations) – None other than work near adult ladder.

Impact on unit priority - None

Impact on forebay/tailwater operation - None

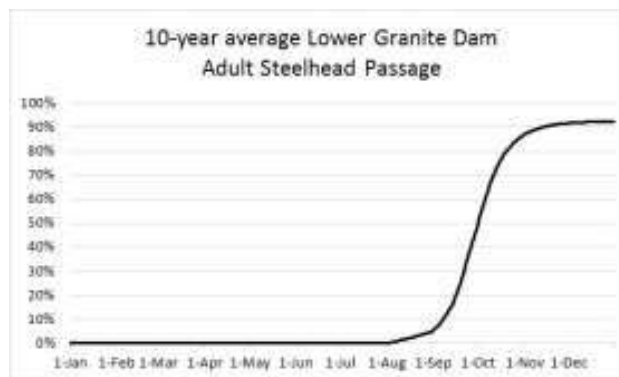
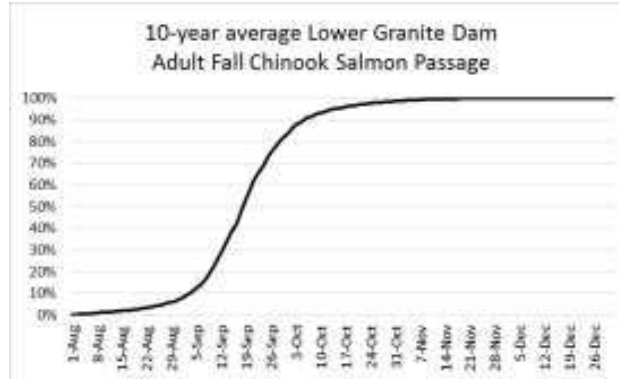
Impact on spill - None

Dates of impacts/repairs – August 25-27

Length of time for repairs - Anticipate 4 hours for initial excavation work near the adult ladder, with connection of temporary water line completed within a 3-day period (August 25-27). The ground disturbing work near the ladder will be scheduled to occur after 1 pm.

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;



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

This year's adult salmon returns during this time period are anticipated to be lower than average.
3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);

A small percentage of the fall chinook and steelhead runs are anticipated to be exposed to this short duration event. Approximately 300 adult steelhead and 150 adult chinook pass the project per day during this time period based on the 10-year averages.
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.);

No impact to juvenile salmon passage is expected.

Limited impacts to adult passage are anticipated due to the noise and vibration from excavation activities near the adult ladder. Excavation activities potentially resulting in elevated sound and vibration levels will be performed in the afternoon when adult passage is relatively lower during the day.

Summary statement - expected impacts on:

Downstream migrants – No anticipated impacts

Upstream migrants (including Bull Trout) – Minor potential delay impacts only; limited number of fish using the adult ladder until early September

Lamprey – No anticipated impacts

Comments from agencies

Final coordination results

After Action update (After action statement stating what the effect of the action was on listed species. This statement could simply state that the MOC analysis was correct and the action went as expected, or it could explain how the actual action changed the expected effect (e.g., you didn't need to close that AWS valve after all, so there was no impact of the action). List any actual mortality noted as a result of the action)

Please email or call with questions or concerns.
Thank you,

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