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.

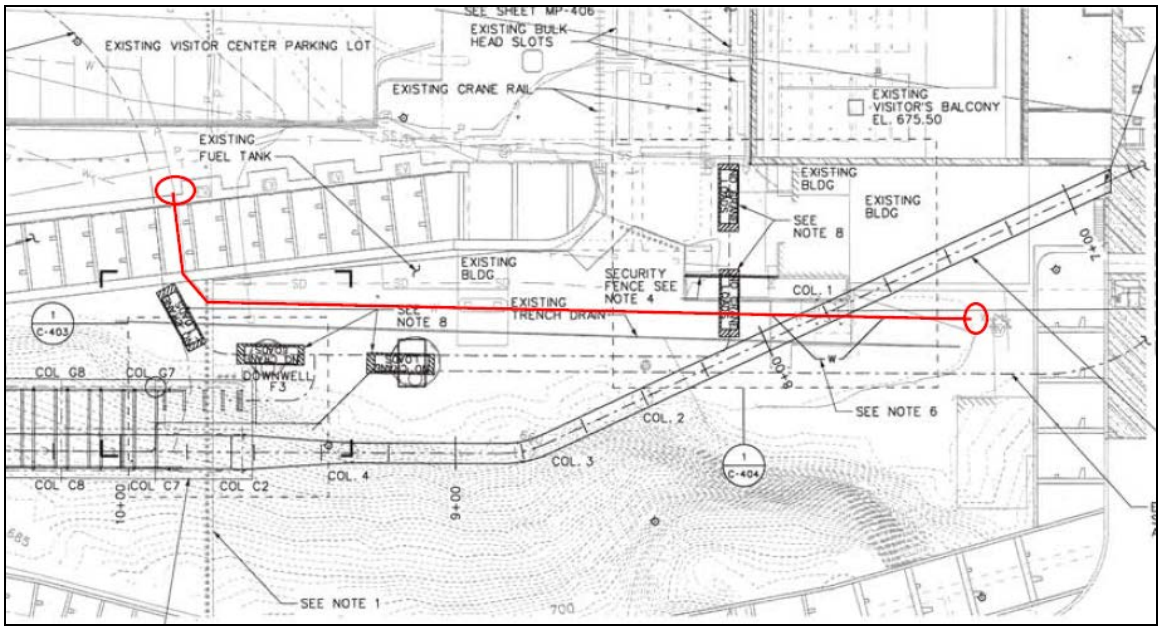


Figure 1. Layout of Lower Granite Dam tailrace along south shore. The red line depicts the routing of the existing 4" potable water supply line in the vicinity of the new underground Phase 1a components being installed during the extended JBS outage currently underway. The circles indicate where digging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

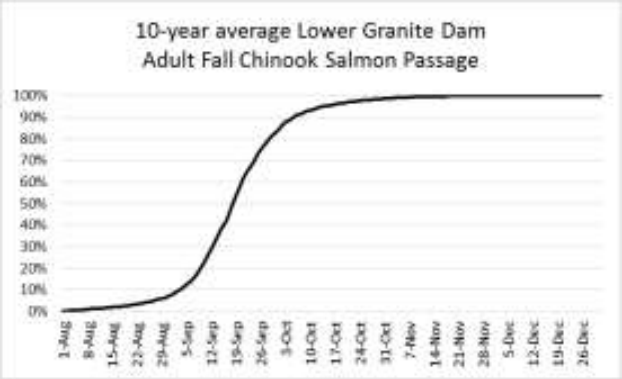
Impact on spill - None

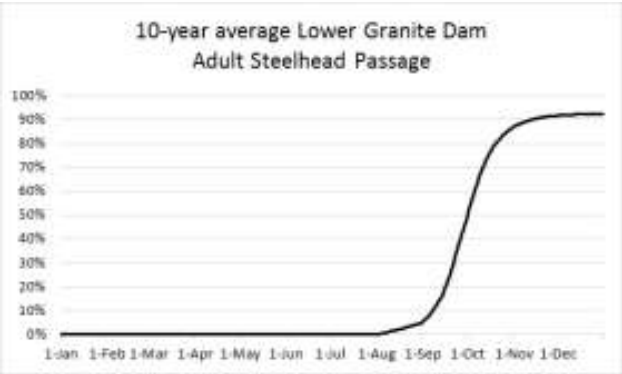
Dates of impacts/repairs – August 25-27

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

From: Trachtenbarg, David A CIV USARMY CENWW (US)
Sent: Tuesday, August 22, 2017 3:34 PM
To: Hockersmith, Eric E CIV USARMY CENWW (US)
<Eric.E.Hockersmith@usace.army.mil>; Tom Lorz (lort@critfc.org)
<lort@critfc.org>
Cc: BILL HEVLIN (bill.hevlin@noaa.gov) <bill.hevlin@noaa.gov>
Subject: RE: Official Coordination 17LWG20 MOC

Eric-

I just got off the phone with Tom and we walked through the request from Garco. He was ok with us moving forward on this action if we require the contractor to cut the concrete walkway after 6 pm and then do the digging to expose the water supply pipe after 1 pm (i.e., the following afternoon).

David Trachtenbarg
Fish Biologist
Environmental Analysis Section
U.S. Army Corps of Engineers
Walla Walla District
201 N 3rd Ave.
Walla Walla, WA 99362
Phone: 509-527-7238

-----Original Message-----
From: Tom Lorz [mailto:lort@critfc.org]
Sent: Wednesday, August 16, 2017 4:02 PM
To: Hockersmith, Eric E CIV USARMY CENWW (US)
<Eric.E.Hockersmith@usace.army.mil>
Subject: [Non-DoD Source] RE: Official Coordination 17LWG20 MOC

Not very excited about this one. If I read this right they are just digging, no concrete removal or jack hammering, correct?? Looking at the numbers of adults this should have low impact but need to monitor

if possible. Would request that the COE review pit tag detections in the ladder to see if we see drop out or increased drop out of the ladder during the work periods. Also could this work be done late in the day ie twilight or early morning?

This is the kinda of work that really needs to be done during the inwater work and considering that this project is going into an extra year disappointed this work was not completed last winter.

Tom Lorz
CRITFC

-----Original Message-----
From: Bill Hevlin - NOAA Federal [mailto:bill.hevlin@noaa.gov]
Sent: Monday, August 14, 2017 5:02 PM
To: Hockersmith, Eric E CIV USARMY CENWW (US)
<Eric.E.Hockersmith@usace.army.mil>
Cc: Trachtenbarg, David A CIV USARMY CENWW (US)
<David.A.Trachtenbarg@usace.army.mil>; Bill Hevlin
<bill.hevlin@noaa.gov>; Trevor Conder <trevor.conder@noaa.gov>
Subject: [Non-DoD Source] Re: Official Coordination 17LWG20 MOC

Eric,
Thanks for coordinating with us about this work near the Lower Granite adult ladder. The work is necessary for the renovation of the juvenile bypass system. The timing is good - August 25-27 - it will occur before the high number of fall chinook adults are passing Granite in September.. NOAA Fisheries supports the proposed work schedule, with ground disturbing work near the ladder occurring after 1 pm.
thanks

Bill Hevlin
NOAA Fisheries

Final coordination results

After Action update: The 4" water line was exposed on the south side of the Fish Ladder on 25 Aug using a vacuum truck. No concrete demolition was required. The construction contract representative didn't know the timing of the work, other than it occurred during the day shift.

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

Chris Peery
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-OR-

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