

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

COORDINATION TITLE- 20BON03 Spill Operation for Rock Removal

COORDINATION DATE- 16 January 2020

PROJECT- BON

RESPONSE DATE- 30 January

Description of the problem – Rocks were found on the apron of the Bonneville spillway from a hydro-survey conducted on 24 September 2019. When rocks are found in the stilling basin, they have to be physically removed. However, when rocks are found on the apron, the rocks are able to be pushed out by a forceful jet of water. A special spill pattern has been developed to push the rocks downstream. A survey will be conducted after the operation to verify that the rocks have been removed from the apron.

Type of outage required – no outage is required

Impact on facility operation (FPP deviations) – The corner collector will not be running during the spill operation. The project will not be spilling in a juvenile pattern.

Impact on unit priority - none

Impact on forebay/tailwater operation - none

Impact on spill – This operation will require a special spill pattern developed by the Hydraulics section. The project will spill 24kcfs out of each bay, one at a time.

Dates of impacts/repairs – TBA, before spring spill. This operation will be coordinated with BPA at a time when water is available for spill.

Length of time for repairs – 2 hours

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;

<https://www.nwfsc.noaa.gov/research/divisions/fe/estuarine/oeip/g-forecast.cfm>

The work date is unknown.

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

The run estimates have not yet been predicted.

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

This spill operation is not expected to impact fish passage.

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.);

This spill operation is not expected to impact fish passage.

Summary statement - expected impacts on:

Downstream migrants – This operation will be completed before the start of spring spill and is not expected to impact downstream migrants.

Upstream migrants (including Bull Trout) – This operation will not interfere with upstream migrant's passageways.

Lamprey – This operation is not expected to impact lamprey passage.

Comments from agencies – no comments were received on this action.

Final coordination results – This action will move forward as coordinated but there was a request for a hydrosurvey after the operation to make sure rocks were actually removed.

After Action update – From 200213 FPOM minutes: The flushing spill operation occurred on 4 February but the gates did not work properly. To flush rocks, the gates need to be open to 12'. The rocks are below bay 11. The plan was to start at bay 10 then 11 and 12. Gate 10 went to 9' and eventually the project got it open to 11'. Gate 11 only opened to a max of 9.8'. Gate 12 opened fully to 12'. Funding has been secured for the survey. The project is working on the gates. It appears that there is enough water to redo the spill test.

Hydro-survey is scheduled for 25 March. No additional spill tests occurred.

Please email or call with questions or concerns.

Thank you,

Erin

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