

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

COORDINATION TITLE- 22 LWG 08 MOC BPA Outage 500kV Line

COORDINATION DATE- July 7, 2022

PROJECT- Lower Granite Dam

RESPONSE DATE- July 21, 2022

Description of the problem:

BPA is requesting Lower Granite Dam restrict the powerhouse to 0 MW during the outage period of November 14-November 18 to install jumpers near the local substation, allowing them to isolate equipment to install line metering equipment associated with the GridMod upgrades. An additional outage to remove the jumpers is needed during the winter maintenance period.

Type of outage required: The 0 MW restriction will require all 6 units out of service with the exception of station service power.

Impact on facility operation- The Juvenile Fish Facility will not be impacted and will operate in primary bypass as normal during the initial outage.

Impact on unit priority- The initial outage will require all units to be out of service with the exception of unit 5 operating at station service, causing a deviation from the unit priority (FPP, Chapter 9, Table LWG-5).

Impact on forebay/tailwater operation

Impact on spill- Surface spill requirements will not be impacted during this outage. Spill for adult steelhead overshoot will occur three times each week on non-consecutive days for four hours in the morning from September 1 – November 15. Additional spill may also be required.

Dates of impacts/repairs- November 14-November 18

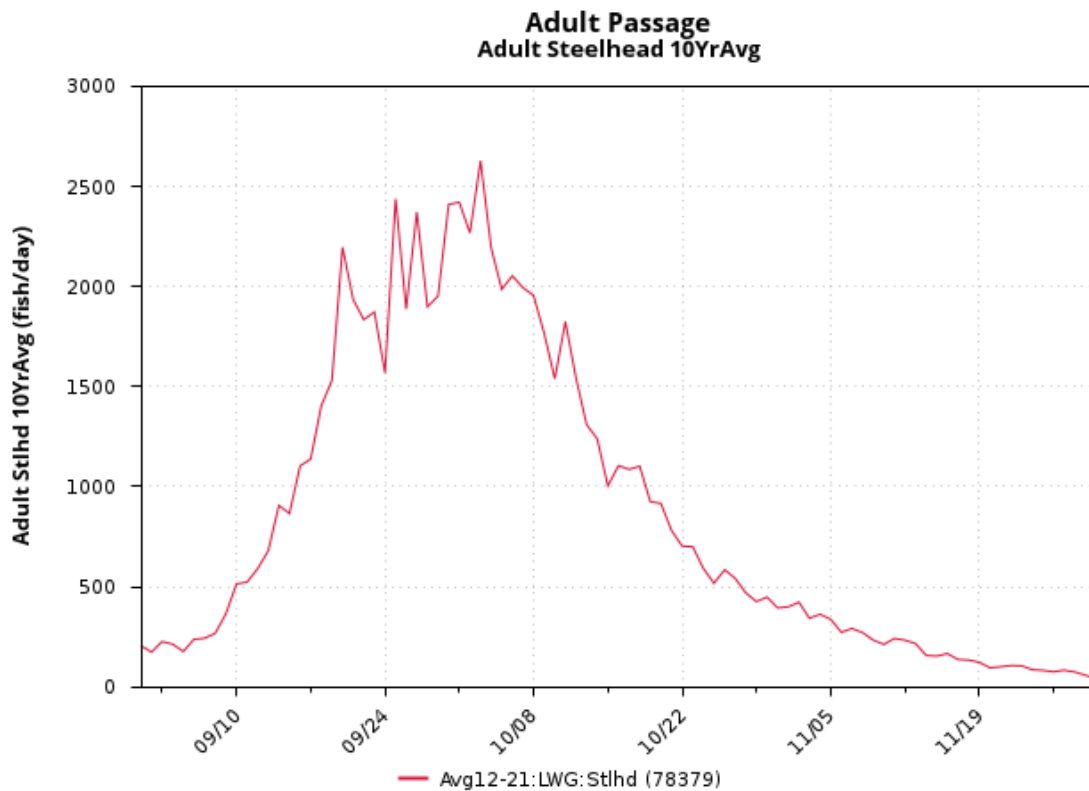
Length of time for repairs- 5 days

Analysis of potential impacts to fish

1. 10-year average passage by run during the period of impact for adults, as appropriate for the proposed action and time of year are listed below in Table 1.

Table 1. 10-Year average (2012-2021) adult count at Lower Granite Dam.

Date	Chinook	Jack Chinook	Steelhead	Coho	Jack Coho
14-Nov	17	6	157	16	4
15-Nov	14	6	155	15	3
16-Nov	13	5	167	13	4
17-Nov	12	4	137	13	3
18-Nov	10	5	134	21	2



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Figure 1. 10-year average (2012-2021) adult steelhead counts at Lower Granite Dam.

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

Only a very small portion of juveniles out-migrating would be affected by this action. A larger proportion of steelhead adults could be affected.

3. 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.);

Without the flow coming from the powerhouse, adult fish could be exposed to increased delay if they are not able to find the entrance. If there are any juveniles out-migrating, they could be exposed to higher predation and delay if they are entrained in the tailrace.

Summary statement - expected impacts on:

Downstream migrants – The smolt passage in November is very low/ negligible. The time period specified is well outside the peak smolt passage season.

Upstream migrants (including Bull Trout)- Adult steelhead passage in November is expected to be low, but upriver migrants may be delayed due to reduced attraction flow.

The 10-year (2012-2021) average of 2 bull trout were observed passing the count window. Monthly count data suggests that the majority of these fish pass in May and June, however counts are not conducted during all months and the fish ladder is also dewatered for annual maintenance in the winter.

Lamprey- This action is expected to have minimal effects on lamprey since most migrating adults will have passed the project already.

Comments from agencies

Final coordination results: No objections

After Action update

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

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