

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

**COORDINATION TITLE- 22 LMN 06 MOC BPA Outage 500kV Line**

**COORDINATION DATE- July 7, 2022**

**PROJECT- Lower Monumental Dam**

**RESPONSE DATE- July 21, 2022**

**Description of the problem:**

BPA is requesting Lower Monumental Dam restrict the powerhouse to 0 MW during the outage period of October 31-November 4 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 of the powerhouse will occur to remove the jumpers 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 7, Table LMN-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-** October 31-November 4

**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. Since adult fish counting only occurs every 5 years after October 31, the average numbers of fish count for the dates November 1-4 only include years 2014 and 2019 are included in Table 2.

Table 1. 10-Year average (2012-2021) by run for adults passing both ladders on October 31.

Date	Chinook		Jack Chinook		Steelhead		Coho		Jack Coho	
	South	North	South	North	South	North	South	North	South	North
31-Oct	8	15	4	9	35	372	8	56	1	6

Table 2. 2-Year average (2014 & 2019) by run for adults passing both ladders from November 1- 4.

Date	Chinook		Jack Chinook		Steelhead		Coho		Jack Coho	
	South	North	South	North	South	North	South	North	South	North
1-Nov	1	9	1	9	57	229	7	31	1	10
2-Nov	5	8	4	11	90	377	4	33	1	7
3-Nov	7	9	3	6	207	473	6	36	1	2
4-Nov	3	10	1	3	83	329	4	23	2	1

[https://www.cbr.washington.edu/dart/query/adult\\_ladder\\_sum](https://www.cbr.washington.edu/dart/query/adult_ladder_sum)

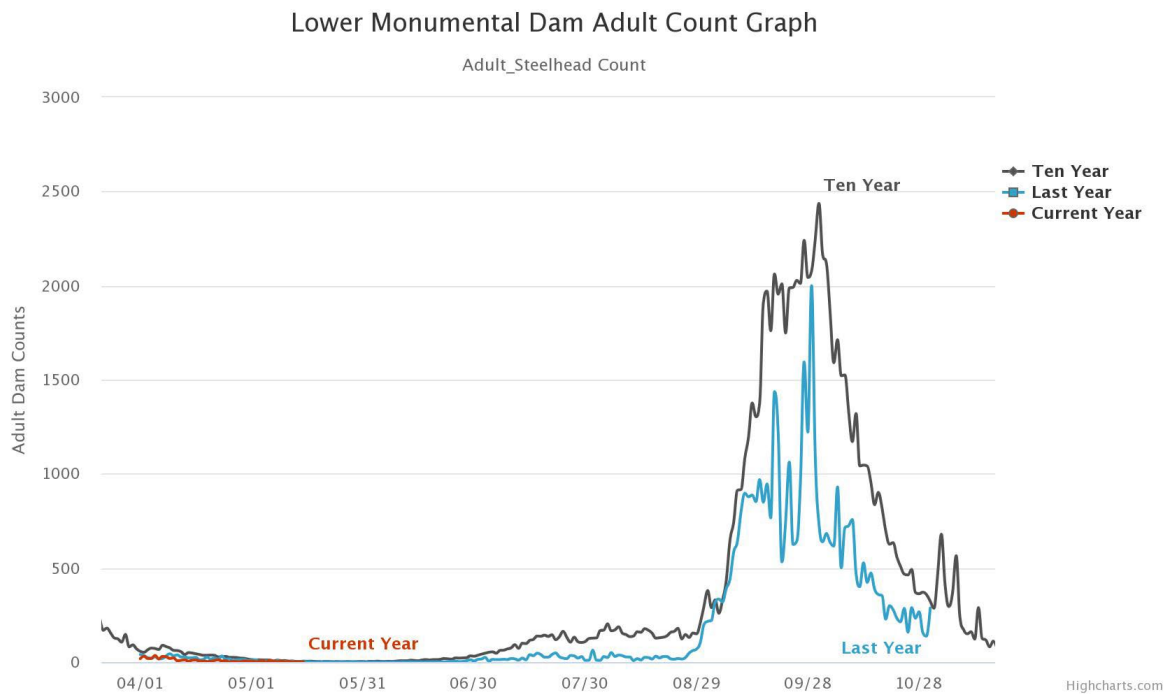


Figure 1. Adult Steelhead counts at Lower Monumental Dam.

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 small number 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 late October and November is very low/ negligible. The time period specified is well outside the primary smolt passage season, which is defined by the sampling season, 1 April through 30 September.

**Upstream migrants (including Bull Trout)**- Adult steelhead passage during this time is expected to be relatively low, but upriver migrants may be delayed due to reduced attraction flow.

The 10-year (2012-2021) average of 11 bull trout were observed passing the count windows. 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 ladders are 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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