OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE - 18 LWG 04 AWS Pump 2 RTS COORDINATION DATE - 21 May 18 PROJECT - Lower Granite Dam RESPONSE DATE - 4 June 2018

Description of the problem- Lower Granite normally operates the fish ladder with two auxiliary water supply (AWS) pumps in service and one in standby mode. Currently pumps 1 and 3 are in operation and AWS pump 2 is out of service for completion of lower guide bearing repairs. Pump 2 needs to be brought on line for operational reliability testing.

Type of outage required- AWS pumps will be taken out of service to swap discharge bulkheads from pump 2 to pump 3. If the test of pump 2 is successful, AWS pumps 1 and 2 will remain in operation.

Impact on facility operation (FPP deviations)- Adult fish ladder collection channel and entrance attraction flows will be impacted with channel/tailwater head differentials and depth over the entrance weirs out of criteria during the two hour AWS pump outage.

Impact on unit priority- N/A

Impact on forebay/tailwater operation- N/A

Impact on spill- N/A

Dates of impacts/repairs- June 19, 2018 from 1400-1600 hrs. If testing AWS 2 is not successful during this time period, it will allow time in the afternoon to exchange bulkheads back for AWS 3 pump operation.

Length of time for repairs- The bulkhead swap and test is estimated to be completed in two hours or less.

Analysis of potential impacts to fish

- 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; the 10 year average adult passage for June 19 is 854 adult Chinook, 252 Jack Chinook, and 3 steelhead.
- 2. Statement about the current year's run Chinook salmon counts are currently lower than average in the Columbia and Snake rivers.
- 3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action); based on the 10 year average fish

passage for June 5 the AWS outage can potentially impact about 0.7% of annual adult Chinook run, 0.9% of the annual Jack Chinook run, and 0.002% of the annual steelhead run.

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.); Repairs are scheduled after 1400 hours to reduce the potential for increased adult delays during the adult peak migration hours in the morning. No impacts to juvenile passage are expected.

Summary statement - expected impacts on:

Downstream migrants: N/A

Upstream migrants (including Bull Trout): Potential delay in adult fish passage due to reduction in attraction flow.

Lamprey: N/A

Comments from agencies:

Final coordination results: MOC approved

After Action update: AWS pumps 1 and 3 were taken out of service from 1400-1437 hours June 19 to swap discharge bulkheads from pump 2 to pump 3. The test of pump 2 was successful and AWS pumps 1 and 2 will remain in operation.

Please email or call with questions or concerns.

Thank you, Elizabeth Holdren Supervisory Fisheries Biologist Lower Granite Lock and Dam Ph. 1(509)843-2263 Elizabeth.a.holdren@usace.army.mil



Adult Passage Adult Steelhead 10YrAvg

4000

500

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02/02

www.cbr.washington.edu/dart

02/02

03/02

04/02

- 2017:LWG:Chin (62739)

05/02

06/02

07/02

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08/02

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Avg08-17:LWG:Chin (117440)

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