

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 16 IHR 004 – GDACs testing

COORDINATION DATE- April 1, 2016

PROJECT- Ice Harbor Dam

RESPONSE DATE – April 14, 2016 (April FPOM meeting)

Description of the problem – The latest version of the GDACS software program will be installed in the control room. The GDACS program is used to control the operation of the turbine units and spillway gates. After the installation, the control system for the turbine units and spillway gates needs to be tested. Units 1 and 3, and one of units 4-6, will be started and stopped one at a time, as many times as needed to determined startup and shutdown rates. Spill gates will be tested one at a time by moving open each gate by one stop. Another gate will be closed 1 stop to compensate for the gate being opened, so that the total flow over the spillway is not affected by the testing.

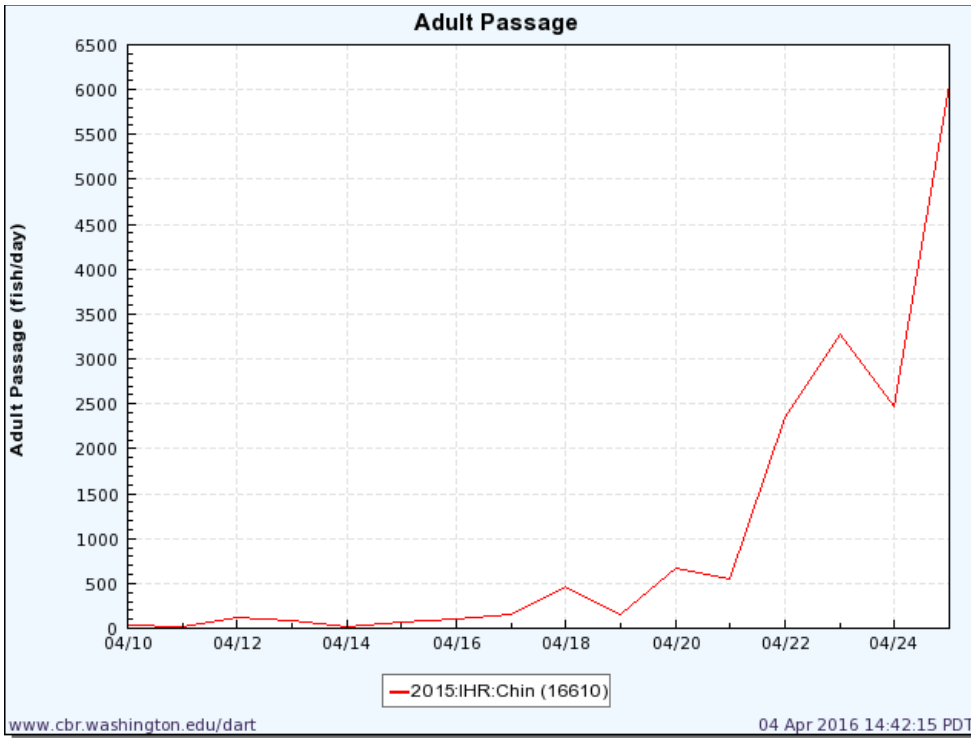
Type of outage required – No outages are required for the testing, but units will be turned on and off, and spillway gates will be opened and closed by 1 stop.

Impact on facility operation – The specific spill pattern required by the Fish Passage Plan will be altered slightly while the testing is occurring. The total spill volume will not be affected. The turbine units will briefly be operated out of priority order for the testing.

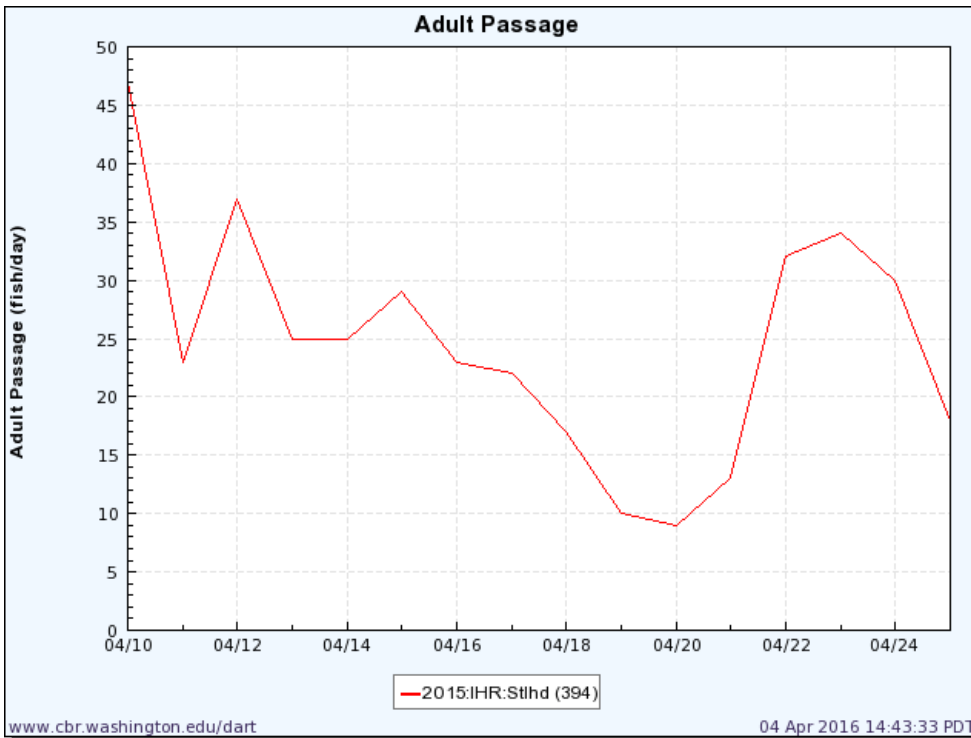
Dates of impacts/repairs – The control system for the spillway gates will be tested on April 22, 2016. The control system for the turbine units will be tested during the week of April 18-22.

Length of time for repairs – Spillway gate testing will occur from 0630 hours to 1700 hours, although it may not take that long. The three turbine units are expected to be started/stopped for intervals of up to 15 minutes each, for a total of 45 minutes per unit.

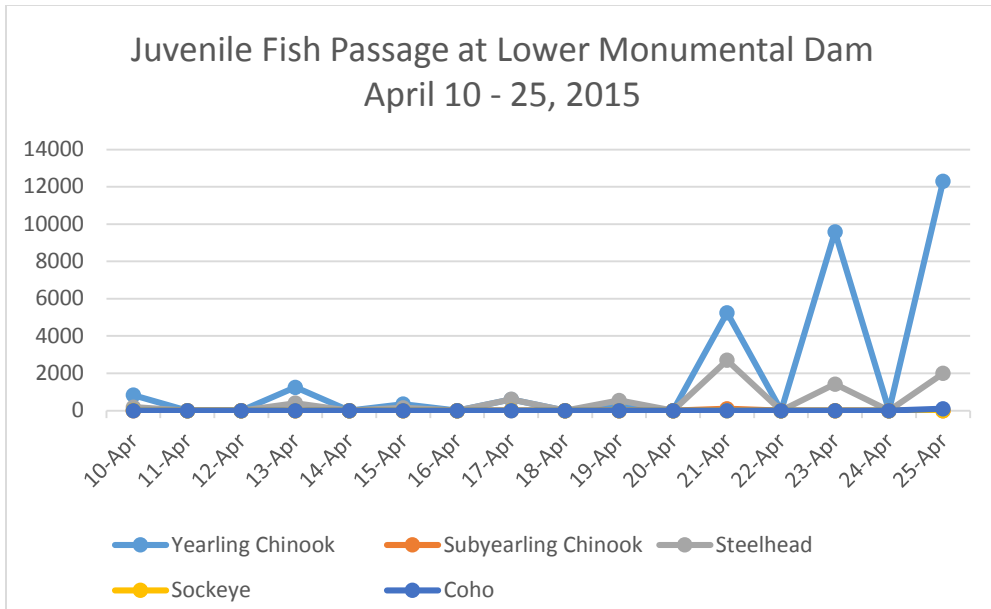
Expected impacts on fish passage – The slight alteration of the spill pattern and brief periods of operating units out of priority may cause temporary changes to the flow patterns in the tailrace. This could cause slight/brief detrimental effects on adult fish attraction to the fish ladder entrances and juvenile fish egress out of the tailrace.



Adult Chinook Passage at Ice Harbor Dam – April 10-25 (Ten Year Average 2006 – 2015).



Adult Steelhead Passage at Ice Harbor Dam – April 10-25 (Ten Year Average 2006 – 2015).



Juvenile Passage at Lower Monumental Dam – April 10-25, 2015. Data taken from facility records. Lower Monumental fish sampling took place every-other-day during this period.

Comments from agencies

Final results

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

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