

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 15 IHR 16 – Fish trap installation to finish PIT detection capability

COORDINATION DATE- November 4, 2015

PROJECT- Ice Harbor Dam

RESPONSE DATE- FPOM November meeting November 12, 2015

Description of the problem – Pacific States Marine Fisheries Commission (PSMFC) is in the process of completing the wiring for PIT-tag detection on the adult fish trap. In order to correctly route the wiring and position the connectors and disconnects between the trap, electrical panels, and the “phone booth”, the trap needs to be installed in the south fish ladder exit pool. PSMFC personnel will require up to a week to work on the wiring while the trap is in the water. A power hand drill will be used infrequently to secure flexible conduit to the trapping cage upper assembly. This work is being requested for December, because PSMFC staff will be tied up performing in-water work at other projects during the fish ladder annual maintenance period in January and February, including work associated with removing/repairing/installing 13 PIT-tag detection antennas in various fish ladders.

Type of outage required – None.

Impact on facility operation – None. The gates at both ends of the trapping cage will be left open when the trap is in the water, so fish can pass straight through the trap. The gates of the holding cage will be closed so fish cannot enter.

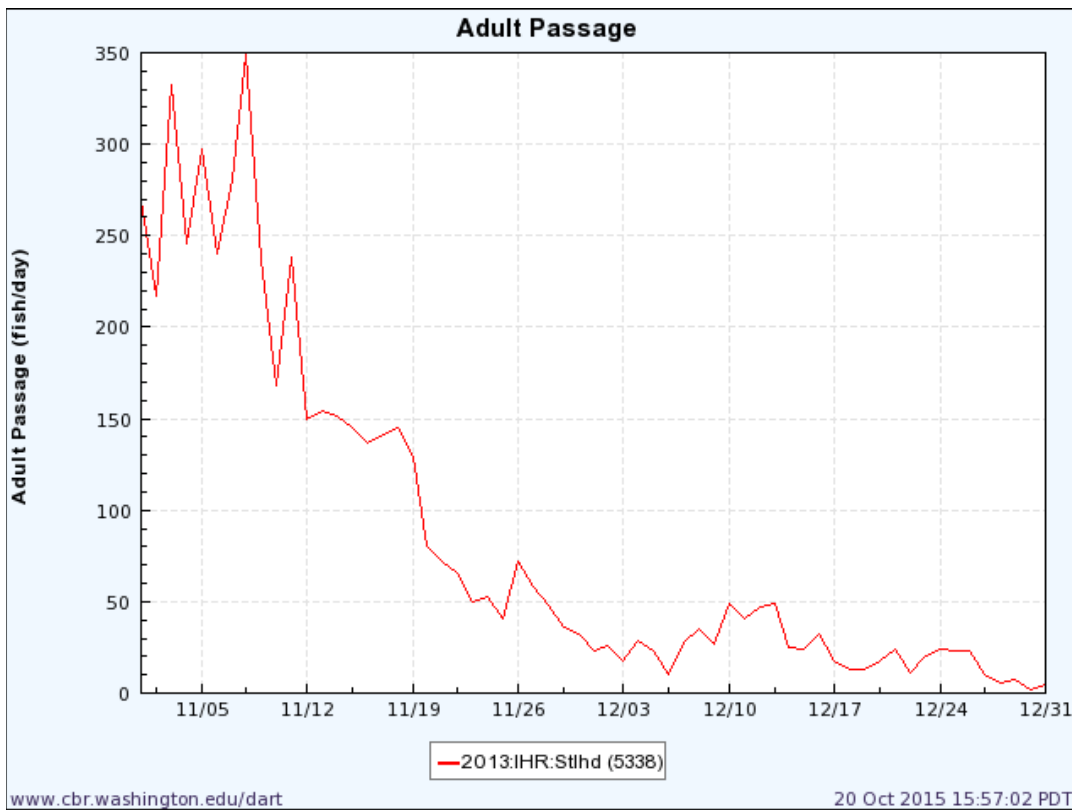
Dates of impacts/repairs – December 7-14, 2015.

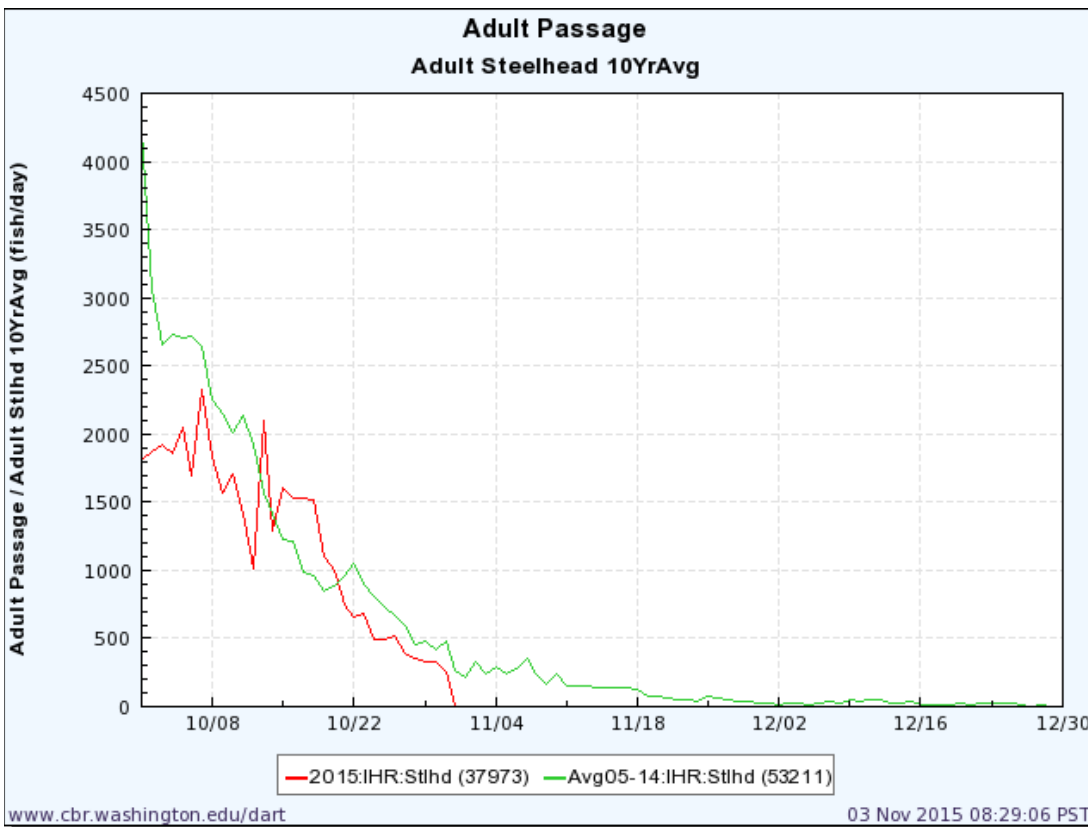
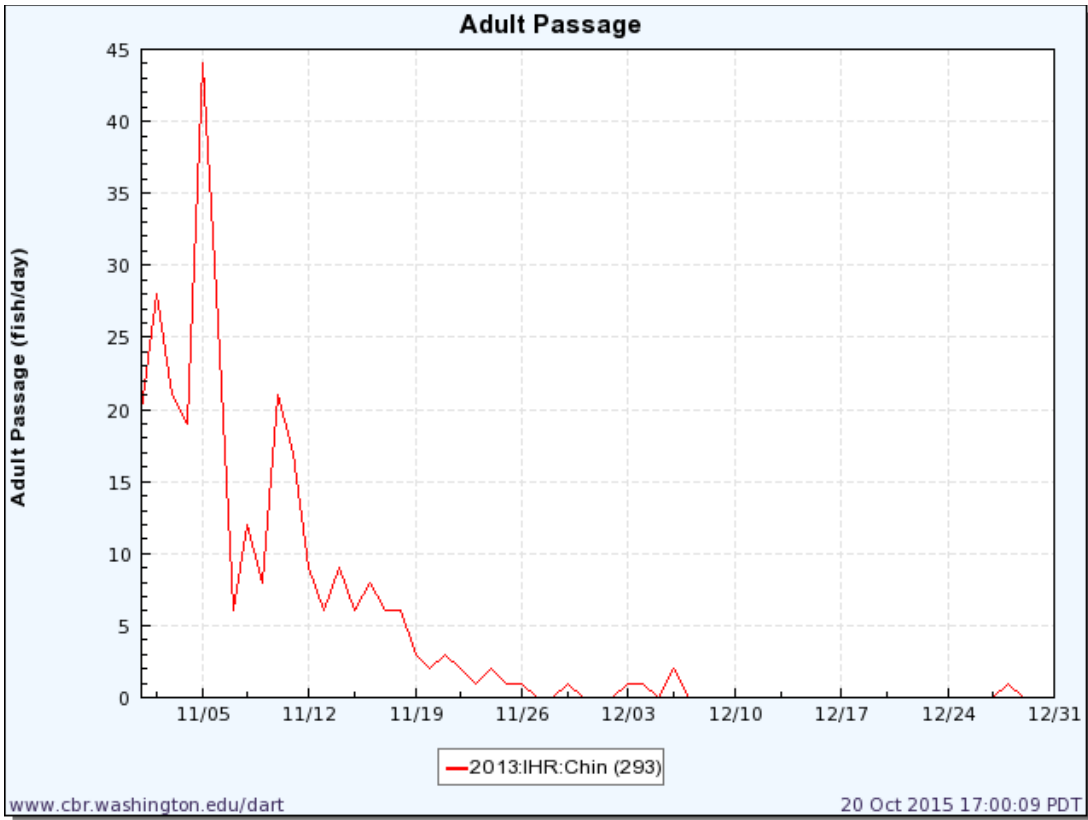
Length of time for repairs – The trap will be installed on December 7, starting as early as 0700. The trap will be removed by 1700 on December 14. If the work is completed earlier, the trap may be removed before then.

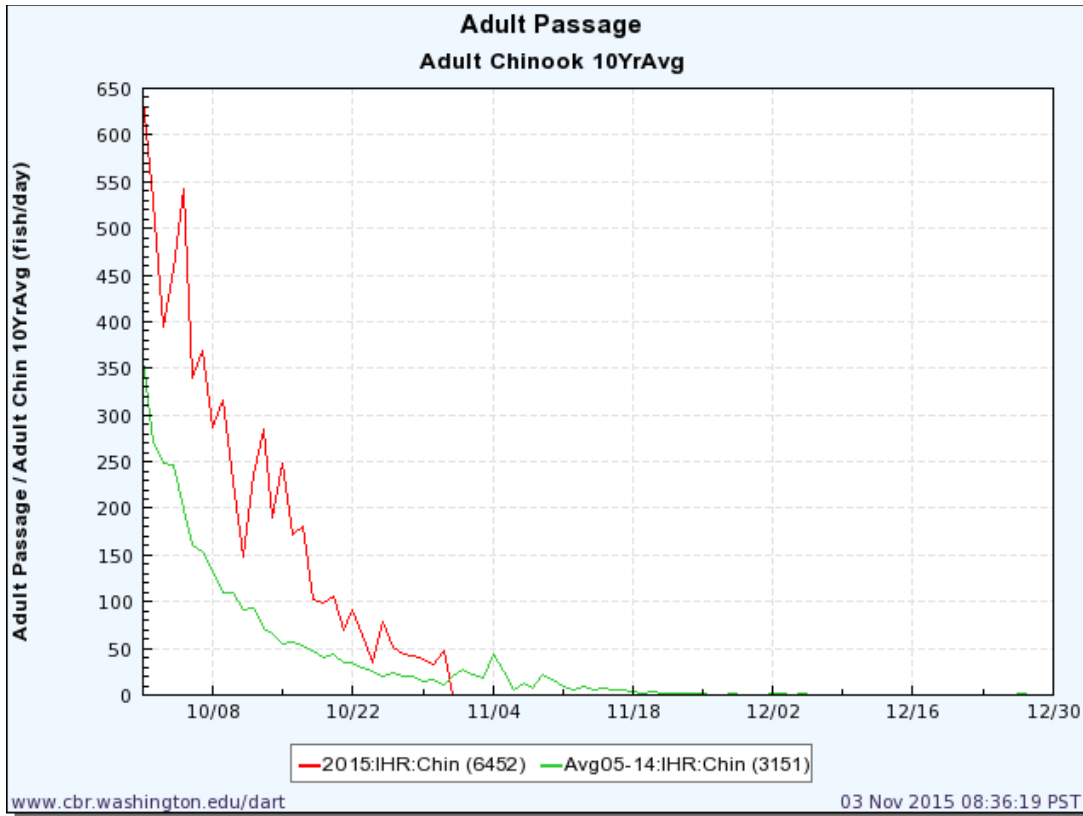
Expected impacts on fish passage – There may be a slight impact on fish passage associated with this work. The passage route upstream into the ladder exit pool will be in the upper half of the water column with the trap installed, but fish will be able to volitionally pass through the trap and should be attracted to the water flow through the trap. The activity of personnel in this area may cause a slight disturbance on fish with the movement of people, but there are not expected to be any abrupt, loud noises or vibrations. The hand drill will create more of a moderate, steady noise during the short durations that it is operated.

The first two tables below show the daily numbers of adult steelhead and chinook, respectively, passing Ice Harbor Dam in November and December of 2013, the only year within the last 15 years that fish were counted after October 31. Steelhead passage numbers ranged from 10 to 50 per day during the first half of December. Chinook

passage numbers ranged from 0 to 2 per day for the same period. The last two tables below show daily passage numbers of adult steelhead and chinook, respectively, in October of 2015 (shown by the red lines), compared against the 2013 daily passage from October to December (green lines). In the latter part of October, steelhead passage numbers were lower and chinook passage numbers were higher than they were in 2013, so numbers of fish that will pass on December 8 and 9 will differ by some degree from 2013 numbers. Approximately 75-90% of adult steelhead and 60-85% of adult chinook used the south ladder compared to the north ladder in October. In December 2013, the percentage of steelhead using the south ladder was quite variable, but usually above 50%.







Also, three of the bulkheads in the south lower ladder collection channel may be replaced on December 8 and 9 (concurrent with the trap work), requiring that the south shore AWS pumps be shut down. See MOC 15 IHR 015 for more details.

Comments from agencies

Final results

Please email or call with questions or concerns.

Thank you,

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