

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

COORDINATION TITLE- 20JDA05 MOC Spill bay 10 repair

COORDINATION DATE- 5/11/20

PROJECT- John Day

RESPONSE DATE- 5/25/20

Description of the problem

Spill bay 10 at John Day Dam is being operated manually by Operations since a problem with its gearbox was found in late April. The spill bay was out of service from 10 April -20 April and not responding to commands from the control room to raise or lower. Electricians were able to restore operation of the spill gate locally. Operations staff have been raising and lowering the gate locally as the spill pattern changes for flex spill and flow changes.

John Day project needs to restore remote control operation of the spill gate back to the control room and avoid an operator having to manually operate the gate as flows change.

Type of outage required

Spill bay 10 will be out of service for one week starting on 16 June, the first day after Spring spill season, to fix the gearbox and restore the remote control function. The gate would be on seal and cannot be dogged at a specific set point.

Impact on facility operation (FPP deviations)

The outage would affect spill patterns and flow would need to be dispersed elsewhere to stay within the 35% spill operation for summer fish passage operations.

Impact on unit priority- no impact

Impact on forebay/tailwater operation- no impact

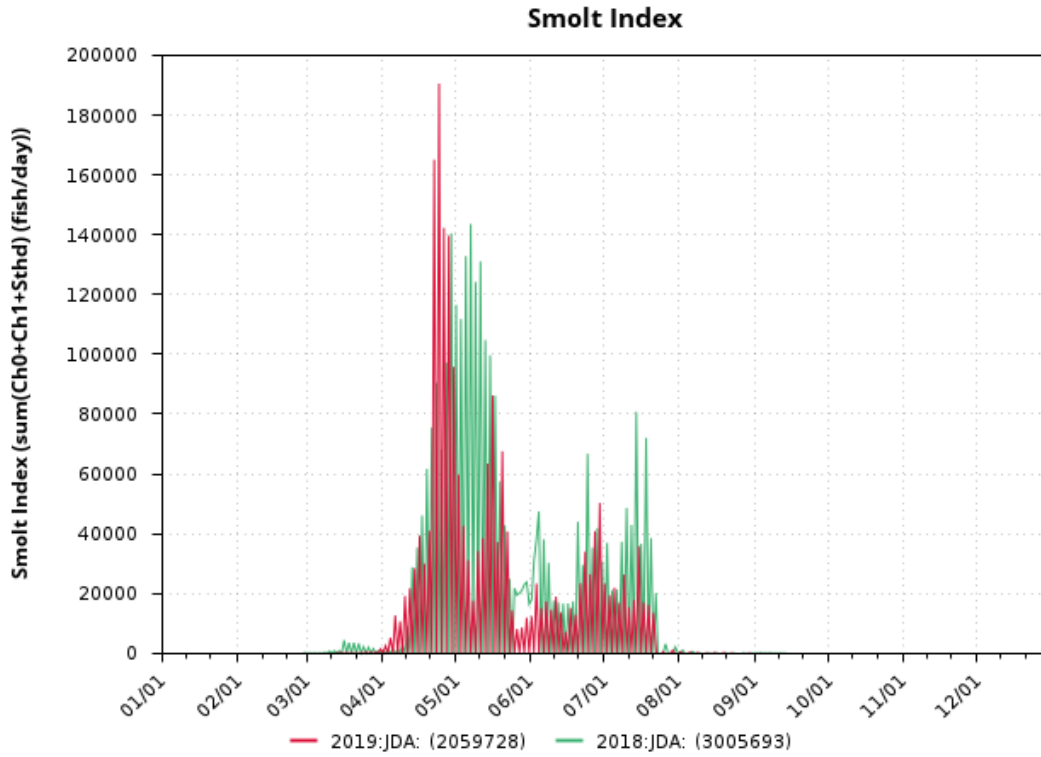
Impact on spill

The spill pattern will be out of criteria but the volume will be correct. Spill gate 10 is located in the middle of the spillway and its discharge is lower compared to other gates in the spill pattern. The flow will be diverted to other gates to stay in criteria.

Dates of impacts/repairs 16 June – 23 June

Length of time for repairs 1 week

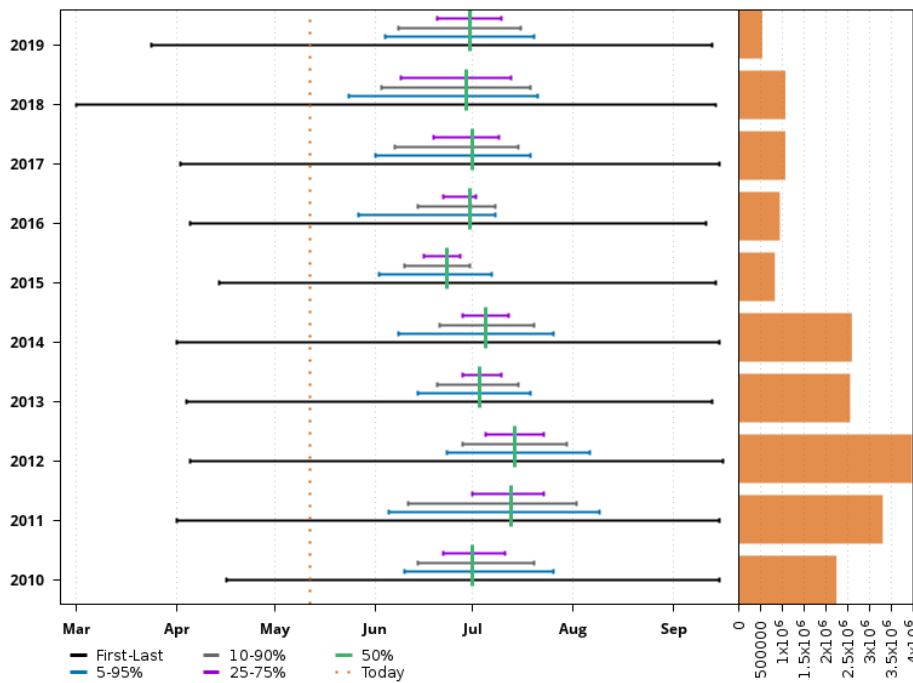
Analysis of potential impacts to fish



www.cbr.washington.edu/dart

11 May 2020 08:59:24 PDT

Historical Run Timing, 2010 - 2019
Smolt Index Subyearling Chinook
John Day Dam, 1/1 - 12/31



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Summary statement - expected impacts on:

Downstream migrants - Minimal impact to downstream migrants is anticipated by this action. The vast majority of yearling Chinook, Steelhead, Coho and Sockeye salmon have passed John Day dam by 16 June. Sub-yearling Chinook salmon will be most affected by having the spill bay out of service. The date proposed for this action was picked based on historic run timing. The lull period typically seen between CH1 and CH0 was picked to help minimize the impact to downstream migrants, specifically CH0.

Upstream migrants (including Bull Trout) – This action is not expected to impact upstream migrants.

Lamprey- This action is not expected to impact lamprey.

Comments from agencies –

From the May FPOM minutes:

JDA will remove a gear box off bay 1 and move to bay 10. The bay needs to be OOS for a week to accommodate this work. JDA estimated the best time would be between spring and summer spill. One change would be to move the date to Monday the 15th so maintenance has the entire week. Van Dyke asked which pattern would be used during that week. Swank thinks returning the spill gate to full functionality is more important than the spill pattern for a week. Morrill concurs. Bettin asked if the gate will be dogged open while the work is going on. The gate will be closed. ACTION: Fielding will send more information about the proposed spill pattern during the outage.

Final coordination results – After Fielding provides the updated pattern, the action will move forward as coordinated.

After Action update-Spill bay #10 was taken OOS on June 15th and the gear box from spill bay #1 was used to fix the problem. The problem continued after replacing the gear box and spill bay #10 was RTS on June 23rd. Spill bay #10 will continue to operate manually until a permanent fix is found. During this outage, spill was distributed in other bays and resulted in no real impacts to spill of juvenile migration.

Please email or call with questions or concerns.

Thank you,

Erin

Erin Kovalchuk
NWP Operations Division Fishery Section
Columbia River Coordination Biologist
Erin.H.Kovalchuk@usace.army.mil

Scott Fielding
Chief of Fisheries

John Day Dam
Scott.D.Fielding@usace.army.mil