

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

COORDINATION TITLE- 21 TDA 10 MOC Unit 8 outage

COORDINATION DATE- 5 October 2021

PROJECT- The Dalles Lock & Dam

RESPONSE DATE- 12 October 2021 (1 week)

Description of the problem - The Dalles main unit 8 sluice gates are open per Fish Passage Plan requirements. Project maintenance needs to conduct necessary maintenance on unit 8 from Oct 18 – 28 to meet the unit outage schedule. Normally this would require the 2 open sluiceways on unit 8 to be moved to an adjacent operating unit. However, due to the crane rail contract, the gantry crane required to move these gates is stuck on the east end of the powerhouse and cannot be moved until they are done with the crane rail replacement work in that section. The mobile crane cannot be used due to load limits. Due to the expected minimal affect to fish passage, project proposes to continue taking unit 8 out of service while leaving the sluiceways open.

Type of outage required – Unit 8 sluiceway gates remain open during unit 8 outage

Impact on facility operation – If the outage schedule cannot be met, the entire work schedule will be affected, which can include the east fishway dewatering scheduled for December 2nd due to staffing shortages.

Impact on unit priority – Unit 8 with associated sluiceways

Impact on forebay/tailwater operation – None.

Impact on spill – None.

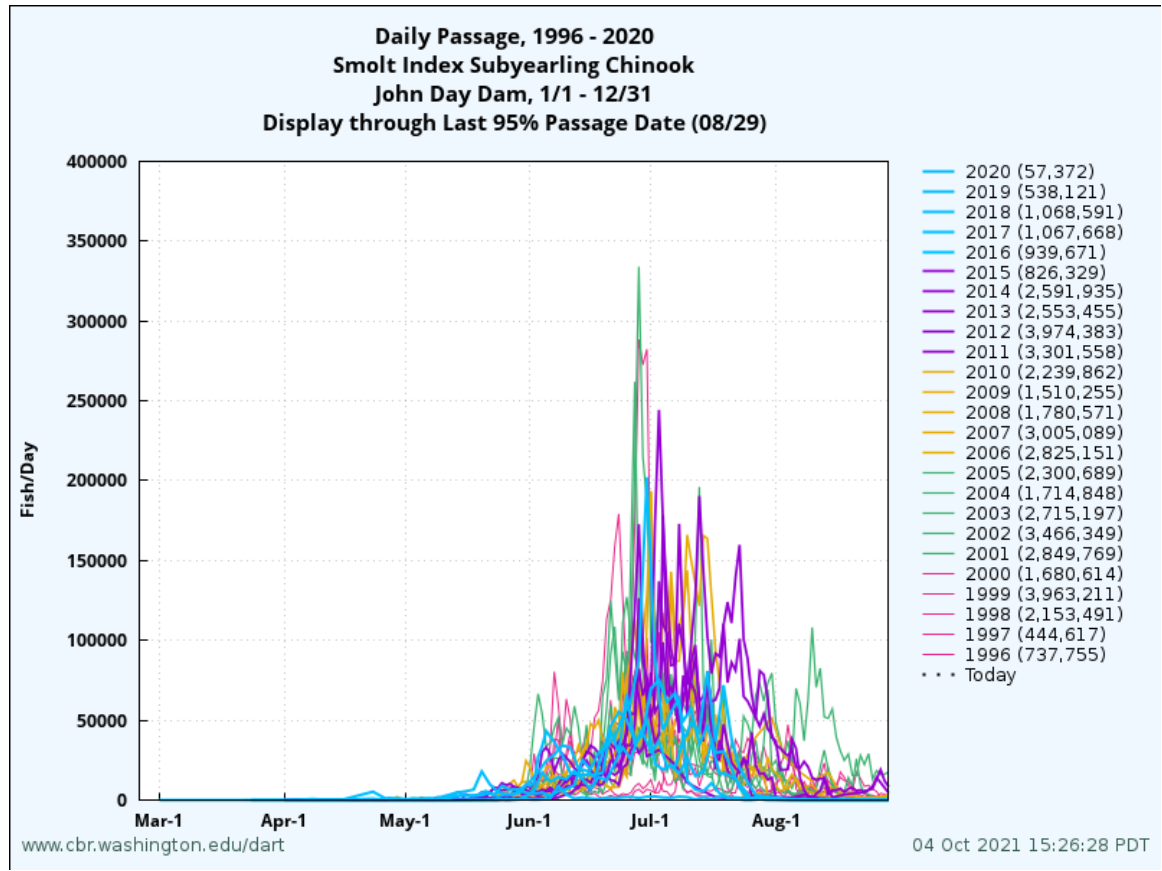
Dates of impacts/repairs – 18 – 28 October.

Length of time for repairs – 10 days

Analysis of potential impacts to fish

1. 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;
Refer to DART or Fish Passage Center

http://www.cbr.washington.edu/dart/wrapper?type=php&fname=hrt_smolt_1633386388_555.php - mediandiff



Juveniles: Juvenile passage is minimal during this time of year. Adult steelhead downstream passage occurs more in Nov through Dec 15.

Spring outmigrants are well past, as well as the majority of summer outmigrants according to passage data – 95% passage date is 8/29

There is no 10 year average of adult passage through the sluiceway. However, sluiceway studies have shown that overshoot adults generally start passing in mid November through mid December. There are four gates open for adult sluice passage, the remaining gates on unit 4 and 18.

2. Statement about the current year's run (e.g., higher or lower than 10-year average):

Adult Fall Chinook run looks ~75% the 10 year average and the Coho run is ~4x the 10 year average. Steelhead run looks to end ~25% of the 10 year average.

3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);

Estimated exposure is for residual juvenile summer outmigrants that may remain in the system that late in the season or any downstream adult steelhead that would

move earlier than normal. However open sluiceways with operating unit will be at unit 4, closer than normal during this scenario. Fish that may normally use unit 8 can find other sluiceways.

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.);

Impact could be a delay of any downstream passing fish searching for an open surface passage routes. The attraction flow of unit 8 would be reduced. However, there will be open gates on unit 4 with that unit operating.

Summary statement –

After full analysis of potential passage impacts, project fisheries has determined that the timing of this work is unlikely to delay fish passage. Therefore, we recommend its approval to maintain outage schedules.

Downstream migrants – Minor, vast majority of juveniles have already passed.

Upstream migrants (including Bull Trout)- Unknown. In sufficient bull trout information available.

Lamprey – Most out migrating lamprey have already passed downstream.

Comments from agencies

From: Tom Lorz <lorz@critfc.org>

Sent: Tuesday, October 5, 2021 9:10 AM

To: McClain, Nathan A CIV USARMY CENWP (USA)

<Nathan.A.McClain@usace.army.mil>

Subject: [Non-DoD Source] Re: FPOM Official Coordination: 21 TDA 10 MOC Unit 8 outage

Not super excited but can live with this if we cannot figure out something. Could you guys get a mobile crane from Bonneville to move the gates? We can do a check in next Thursday as well.

thanks

tom

From: McClain, Nathan A CIV USARMY CENWP (USA)

Sent: Thursday, October 7, 2021 2:11 PM

To: Tom Lorz <lorz@critfc.org>

Cc: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>

Subject: RE: FPOM Official Coordination: 21 TDA 10 MOC Unit 8 outage

Hi Tom,

I reached back to Cordie to see about getting a mobile crane from Bonneville. The BON mobile crane does not have the capacity to pick the load (similar to the TDA mobile crane).

We know this is not ideal, so we also asked about skipping Unit 8 and coming back to it later, but there are no other units they can swap in for this service.

The gates into the Ice and Trash Sluiceway will still be open at Unit 8, as they will be for operating Units 1 & 18. So there are other options for surface passage available. The schedule for winter maintenance is always tight. Bottom line, if this work is not complete, two weeks of lost maintenance time on the turbines and/or unit will not get an annual maintenance, increasing failure risk of Unit 8.

Please let me know if you have other questions or suggestions. I will capture your comments in the MOC.

Nathan

Final coordination results

The Corps move forward with the work as coordinated here.

After Action update

Work was completed on schedule. Unit 8 was returned to service the afternoon of October 28th.

Please email or call with questions or concerns.

Thank you,

Nathan McClain
NWP Operations Division Fishery Section (acting)
Columbia River Coordination Biologist
Nathan.A.McClain@usace.army.mil
(541) 554-3137

Robert Cordie
Supervisory Fish Biologist
The Dalles Lock & Dam