

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

**COORDINATION TITLE- 19BON62 Cascade Island Fish ladder outage for PIT
Antennae work**

COORDINATION DATE- 16 October 2019

PROJECT- Bonneville

RESPONSE DATE- 31 October 2019

Description of the problem

Due to Cascade Island (CI) subsidence, the PIT antennas and associated building, located on the downstream side of the spillway on Cascade Island, must be relocated. The UMT/CI junction has been identified as the location for the new system. Pacific States Marine Fisheries Commission needs access to the area to take measurements for construction. The plan is for the ladder to go to orifice flow on Monday, dry and fished down to tail water Tuesday, work done and water up Wednesday.

Type of outage required

Impact on facility operation (FPP deviations)

Cascade Island up ladder dewatered down to tailwater, UMT closed.

Impact on unit priority

None

Impact on forebay/tailwater operation

None

Impact on spill

Closing of spill bay 1 to stop attraction flow to the CI ladder.

Dates of impacts/repairs

09-11 December 2019

Length of time for repairs

1 day

Analysis of potential impacts to fish

1. 10-year average passage by run during the period of impact for adults

mm/dd	Avg09-18:BON:Chin (fish/day)	Avg09-18:BON:Stlhd (fish/day)
9-Dec	1	23
10-Dec	1	18
11-Dec	2	21

2. This year's Chinook run has been below average and passage is not expected to exceed the daily average during the work period. The Steelhead run has also been below average and passage is expected to be similar to the daily average during the work period.
3. On average, 4 Fall Chinook pass Bonneville during the work period. With a lack of attraction water, the portion of the fall run affected by this closure would be very small. Similarly, an average of 62 Steelhead pass Bonneville during the proposed work period. This is 8.21% of the 10 year average annual run.
4. Fish that might normally pass up the Cascade Island ladder during the work period will have to use the main WA shore ladder, where the distance traveled in the ladder to the Forebay is shorter. There will be no significant attraction flow in the spillway basin, as B-branch will be dewatered for winter maintenance. Any fish that do enter the spillway basin will be forced to move back to the main channel and to PH2 to pass.

Summary statement - expected impacts on:

Downstream migrants

None.

Upstream migrants (including Bull Trout)

Impacts to migrating salmonids are expected to be minimal due to the time of year. Fish that end up in the spillway basin could be delayed until they find their way to main stem flow from PH2. Sea lions are present all year and could have increased predation if a fish was delayed.

Lamprey

Minimal. Historically few if any adult lamprey are observed in the adult fishways this time of year.

Comments from agencies

WDFW

-----Original Message-----

From: Morrill, Charles (DFW) [mailto:Charles.Morrill@dfw.wa.gov]

Sent: Thursday, October 24, 2019 11:01 AM

To: Kovalchuk, Erin H CIV USARMY CENWP (US)

<Erin.H.Kovalchuk@usace.army.mil>

Cc: Morrill, Charles (DFW) <Charles.Morrill@dfw.wa.gov>

Subject: [Non-DoD Source] RE: FPOM: Official Coordination 19BON62 MOC
CI ladder dewatering for PIT work

Importance: High

Hi Erin,

strongly support this MOC !

Charlie

Final coordination results – This action will move forward as coordinated.

After Action update -The de watering went smoothly. More fish than anticipated were found, including a number saved from the AWS system, and only one mortality recorded. See Bon weekly report #50 for numbers. PSMFC finished their work in time. Equipment was returned to normal operation on 11 Dec., as planned.

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

Andrew Derugin
Research Coordinator
Bonneville Dam
Andrew.G.Derugin@usace.army.mil