

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

COORDINATION TITLE- 17BON05 B2CC Closure

COORDINATION DATE- March 14, 2017

PROJECT- Bonneville Dam

RESPONSE DATE- COB March 14, 2017

Description of the problem: The seals surrounding the B2CC PIT reader have degraded in some sections as wide as 2 feet. Estimates of 20% degradation have occurred in this section. PSMFC is concerned that stray tags could hinder detection at this location. Bonneville maintenance crews had planned to repair this during the planned outage on 07-March coinciding with MOC 17BON04 FGE B2CC Coordination, however due to the weather they were unable to accomplish the work. The work was rescheduled for 08 March and weather once again prevented the repair. With an approaching kelt trigger being reached, it's better to accomplish this work sooner than later. This work was unable to be conducted in recent past due to the need to pass flow while the spillway contractor had been working in the tailrace near b-branch for erosion work. The FPP operation for spill includes operation of the B2CC while spill occurs.

As of 1300 on March 7, 10 kelts have been counted by PSMFC and FFU staff at the BON Juvenile Monitoring Facility. Two kelts per day counted on two consecutive days has been met. The cumulative count of 20 has not been met.

UPDATE: This work was previously postponed due to overly wet weather, and the next window of opportunity is Thursday, March 16. As of 0700 on March 14, the kelt cumulative count of 20 has not been met. We would like to do this work whether the kelt trigger is met or not, weather permitting. If 16 March turns out to be too wet, then we would like to conduct this work at the next possible opportunity.

Type of outage required

Impact on facility operation: The B2CC will be closed from approximately 0800-1600 for the completion of the work.

Impact on unit priority: No impact

Impact on forebay/tailwater operation: No impact

Impact on spill: Approximately 5 kcfs will be shifted to the spillway when the B2CC is closed. The spillway is spilling 110 kcfs as of 0700, 14 March

Dates of impacts/repairs: March 16, 2017

Length of time for repairs: 7 hours

Analysis of potential impacts to fish:

Impacts to downstream migrating adult steelhead could result in short term delay without a surface route at B2 while spilling. The B2CC average opening date following the kelt trigger is approximately mid-March. The earliest kelt trigger date occurred last year on March 5. This year's run passage by date through BON JMF:

March-	Fish
2	6
3	2
4	1
5	1
6	0
7	2
8	1
9	1
10	1
11	0
12	0
13	0

A PTAGIS database query of the B2CC over the past 30 days resulted in six summer run PIT detections. Recent juvenile passage recorded at the BON JMF with the expansion factor for the screened bypass includes:

Salmonid smolt: approx. 50/day

Chinook fry: approx. 300/day

Juvenile lamprey: 5000/day and trending downward

The B2CC would normally be available for juvenile passage when spilling or if the kelt trigger is met. If not available, there would be a small impact on juvenile passage since the B2CC is the highest survival route. The JBS is the second highest survival route at BON.

RCC forecasted flows for tomorrow are approx. 237 kcfs. BPA expects forced spill in the 30-40kcfs range. The spill passage route is expected to be available for any downstream migrants.

Comments from agencies

Final coordination results

After Action update

Please email or call with questions or concerns.

Thank you,

Erin

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