

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

COORDINATION TITLE- 17BON04 FGE B2CC Coordination

COORDINATION DATE- March 6, 2017

PROJECT- Bonneville Dam

RESPONSE DATE- COB March 6, 2017

Description of the problem: The B2FGE Program post-construction hydro-acoustic evaluation scheduled to begin on April 10 requires a barge to be installed at the B2CC entrance. Evaluation of passage through the B2CC is necessary for interpretation of results and fixed-location split-beam transducers will be deployed on a floating barge. Similar deployment methods will be used as described in Ploskey et al. (2005a). The B2CC needs to be closed during deployment and has been unavailable due to the need to pass flow while the spillway contractor has been working in the tailrace near B-Branch. The first opportunity to close and apply a clearance on the B2CC with project support has been coordinated for March 7 at approximately 0800. The FPP operation for spill includes operation of the B2CC while spill occurs.

As of 1100 on March 6, 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.

Type of outage required

Impact on facility operation: B2CC will be closed 0800-1600 if the kelt trigger is met. Forced spill is forecast for tomorrow.

Impact on unit priority: No impact

Impact on forebay/tailwater operation: No impact

Impact on spill: No impact

Dates of impacts/repairs: March 7, 2017

Length of time for repairs: 7 hours maximum

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:

3/2 - 6 fish

3/3 - 2 fish
3/4 - 1 fish
3/5 - 1 fish

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

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

From: Swank, David [mailto:david_swank@fws.gov]
Sent: Monday, March 06, 2017 4:51 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
<Erin.H.Kovalchuk@usace.army.mil>; Rerecich, Jonathan G CIV USARMY CENWP (US)
<Jonathan.G.Rerecich@usace.army.mil>
Subject: [EXTERNAL] Re: FPOM: Official Coordination 17BON04 MOC FGE B2CC
Coordination

Hi Erin,

With 30-40K of spill I think downstream passage shouldn't be heavily impacted. Seems like this is necessary for the FGE study. I have no objections.

Dave

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

From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]
Sent: Tuesday, March 07, 2017 6:45 AM
To: Kovalchuk, Erin H CIV USARMY CENWP (US) <Erin.H.Kovalchuk@usace.army.mil>
Cc: Rerecich, Jonathan G CIV USARMY CENWP (US)
<Jonathan.G.Rerecich@usace.army.mil>; Lorz, Tom <lort@critfc.org>
Subject: [EXTERNAL] Re: FPOM: Official Coordination 17BON04 MOC FGE B2CC
Coordination

Erin, We may not hit the kelt trigger but we know kelts are passing and, given the flow levels, there is a high probability of spill and (per the FPP) B2CC operation tomorrow. That will likely be the real impact of this operation on the fish passage plan requirements. Therefore, to be more accurate, the Impact on facility operation section should say: "B2CC will be closed 0800-1600 if the kelt trigger is met. The B2CC will also be closed

even though it would normally be open if involuntary spill occurs (as forecast for tomorrow)." That said, the impact of this fairly short outage could be low for listed fish. Thanks, Gary

Final coordination results

After Action update

Please email or call with questions or concerns.

Thank you,

Erin

Erin Kovalchuk
NWP Operations Division Fishery Section
Columbia River Coordination Biologist

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