OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 18BON62 MOC Spill Bay 1 and 18 Closure for Inspection
COORDINATION DATE- 19 September 2018
PROJECT- BON
RESPONSE DATE- 24 September 2018

Description of the problem
On 25 September, the COE will be conducting inspections on BON spillway gates. In order to complete the work safely, all spill bays must be closed and a clearance issued on the equipment. Spill bays 1 and 18 are currently being operated at 0.5ft to provide 2.3kcfs of attraction flow for the Cascade and B-Branch ladders in accordance with FPP section 2.2.5.

Type of outage required

Impact on facility operation (FPP deviations)
Close spill bays 1 and 18 from 0630 to1700 on 25 September, deviating from FPP section 2.2.5. It is likely the work will be accomplished in a shorter timeframe. "FPP 2.2.5. From September 1 through April 9, during Day hours (Table BON-5), spill will occur from Bays 1 and 18, each open 6" (1 stop), to provide attraction flow to the Cascades Island and Bradford Island B-Branch entrances, respectively".

Impact on unit priority
None

Impact on forebay/tailwater operation
None

Impact on spill
This operation will close all spill during the work period.

Dates of impacts/repairs
25 September 2018

Length of time for repairs
5-10 hours

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;

	9/25 10 year Ave.	10 Year Ave. Total Run	Percentage of Run Affected
Fall Chinook	6,372	535,279	1.2%
Steelhead	1,477	312,200	.05%
Coho	1,520	117,960	1.3%

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

   The current year's runs of Steelhead, Coho, and Chinook are all well below both forecasted levels and 10 year averages. The 10 year average total number of fall chinook by 9/18 is 412,742, but this year's number on the same date is 155,780, or 38% 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);

   See above for adult impact.

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.);

   The reduction in attraction flow will mean that adult fish are more likely to head for the PH1 and PH2 fishway entrances, leaving through the same exits as they would have if entered through CI and B-branch.

   Sub-yearling Chinook are the most common juveniles to pass BON during the work period. On 25 Sept, up to several hundred juveniles traditionally pass downstream, the bulk of which likely follow the flow through PH2 routes. Fish already in the area at the time of gate closure will most likely be delayed until gates re-open that evening. There may be an increase in predation of these fish.

Summary statement - expected impacts on:

Downstream migrants - Possible one day delay for fish already in the area of the gates.

Upstream migrants (including Bull Trout) – Without the attraction water, there may be a delay in adult fish locating the entrances. Sea lions are present and predations rates could increase.

Lamprey – The majority of the run has passed and all LPS systems will be running.

Comments from agencies

-----Original Message-----
From: Hausmann, Benjamin J CIV USARMY CENWP (US)
Sent: Wednesday, September 19, 2018 4:25 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
<Erin.H.Kovalchuk@usace.army.mil>; Tom Lorz <lort@critfc.org>
Cc: trevor.conder@noaa.gov
Subject: RE: FPOM: Emergency Official Coordination 18BON62 MOC Spill bay 1 &18 closure for inspections

This unrelated to the clearance issues we've run into in the past. Because this will involve folks in boats right against the gates, they are tagging the entire spillway.
-----Original Message-----
From: Kovalchuk, Erin H CIV USARMY CENWP (US)
Sent: Wednesday, September 19, 2018 3:44 PM
To: 'Tom Lorz' <lort@critfc.org>; Hausmann, Benjamin J CIV USARMY CENWP (US) <Benjamin.J.Hausmann@usace.army.mil>
Cc: trevor.conder@noaa.gov
Subject: RE: FPOM: Emergency Official Coordination 18BON62 MOC Spill bay 1 &18 closure for inspections

Unfortunately, both spill bays need to be closed at the same time for safety reasons. Ben can correct me if I am wrong but I believe they will be turning off the power to the spill way after the gates are shut.

Erin

-----Original Message-----
From: Tom Lorz [mailto:lort@critfc.org]
Sent: Wednesday, September 19, 2018 3:41 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
<Erin.H.Kovalchuk@usace.army.mil>
Cc: trevor.conder@noaa.gov
Subject: [Non-DoD Source] RE: FPOM: Emergency Official Coordination 18BON62 MOC Spill bay 1 &18 closure for inspections

So if I am reading this right there is no way to keep one side open at a time, all must be closed? Given the low run anything we can do to improve adult attraction would be appreciated. Is this just an issue with tagging in and out procedure or is this a requirement for the work?

Thanks
Tom Lorz

Final coordination results – This action will proceed as coordinated.

After Action update – The bays were not closed as planned. The inspection was completed without an impact to fish.

Please email or call with questions or concerns.

Thank you,
Erin

Erin Kovalchuk
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Columbia River Coordination Biologist
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And
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