

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

**COORDINATION TITLE-** 15BON76 BI winter maintenance begins two weeks early

**COORDINATION DATE-** 8 September 2015

**PROJECT-** Bonneville Lock and Dam

**RESPONSE DATE-** 30 September 2015

**Description of the problem** - Bonneville project would like to request an extra two weeks for the 2015/16 winter maintenance period to repair FV4-3 and FV1-1 in the Bradford Island adult fish ladder. In previous years, two valves have needed repairs within critical fish passage times, Bonneville would like to repair this valve (FV4-3) and the component that supplies water for the collection channel diffusers (FV1-1).

**Type of outage required** - Complete dewatering of B-branch, below tailwater

**Impact on facility operation** - Dewatered two weeks earlier than normal

**Dates of impacts/repairs** - Orifice flow on 15 November 2015-February 29, 2016.

**Length of time for repairs** - About 2 weeks prior to regular outage

**Expected impacts on fish passage**

**Downstream migrants** - Minimal impacts on downstream migrating fish due to the Ice & Trash Sluiceway gates open and juvenile fish passage has all but concluded by mid-November. In addition, PH2 will be operating per FPP criteria and be the priority powerhouse.

**Lamprey** - occurs outside lamprey migration season.

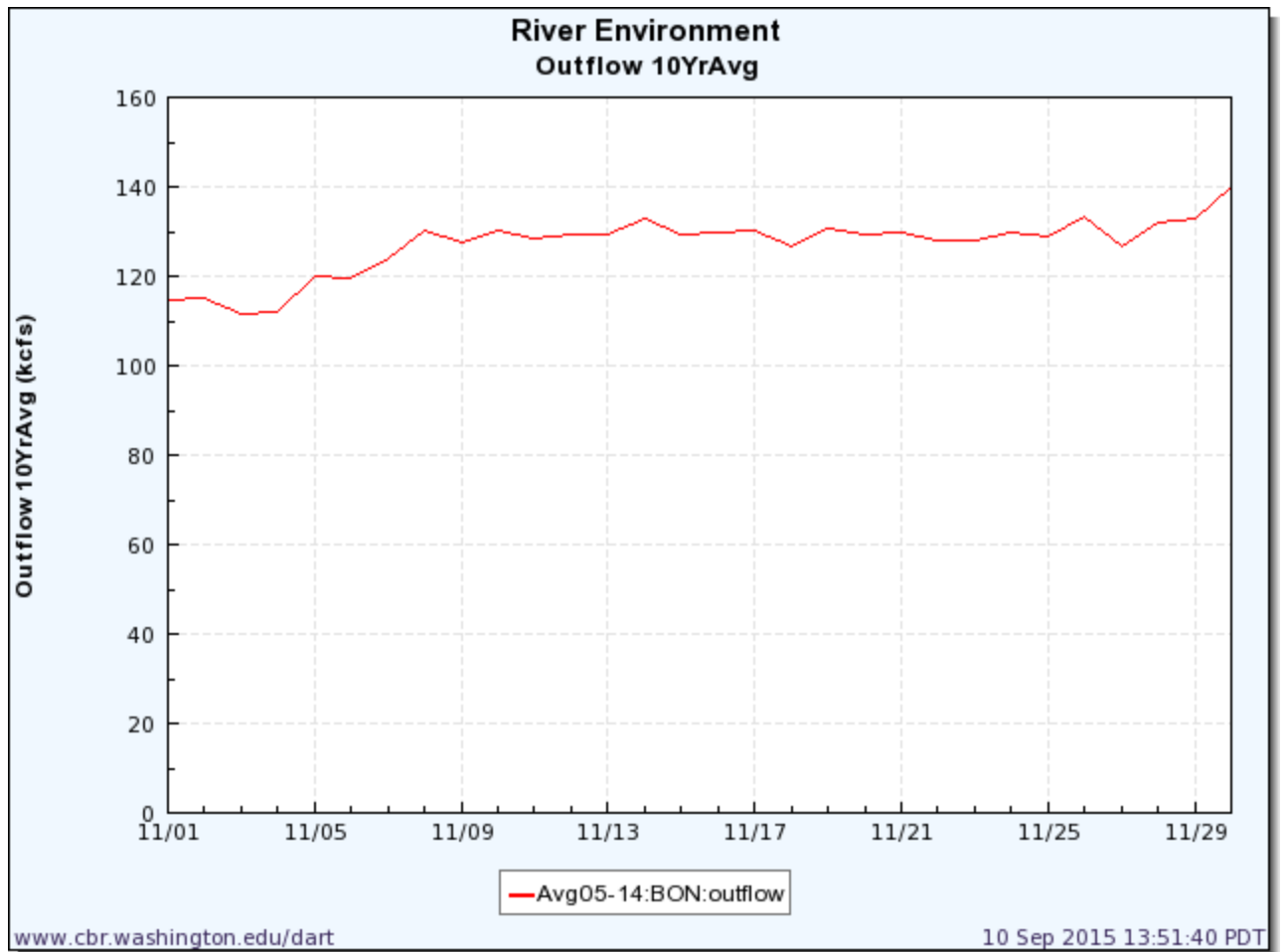
**Upstream migrants** – There have been few bull trout reported during this time but any present would experience similar impacts as upstream migrating salmonids. Table 1 shows the 11-year average for daily passage of salmonids. In mid-November fewer than 200 salmonids pass Bonneville dam and the total number continues to decline as we move later into the month. With the Washington Shore fishway remaining in FPP criteria and PH2 remaining the priority powerhouse, minimal impacts will be expected for those fish attempting to pass at Bradford Island. Taking the ladder down early and allowing for more extensive maintenance to occur on the fish valves will help ensure there are fewer impacts to those fish using that ladder during the fish passage season.

**Table 1. BON Adult salmonid average passage numbers for 2004 – 2014.**

Proj: Bonneville						
Date	All Chinook	All Steelhead	All Coho	Sockeye	Chum	Pink
15-Nov	36	57	75	0	3	0
16-Nov	25	65	66	0	4	0
17-Nov	20	58	58	0	4	0
18-Nov	21	64	57	0	2	0
19-Nov	19	59	49	0	3	0
20-Nov	17	58	41	0	3	0
21-Nov	15	40	24	0	2	0
22-Nov	14	48	30	0	4	0
23-Nov	12	37	31	0	2	0
24-Nov	12	31	26	0	2	0
25-Nov	9	32	22	0	1	0
26-Nov	9	31	30	0	1	0
27-Nov	8	31	16	0	1	0
28-Nov	8	36	11	0	1	0
29-Nov	5	35	9	0	1	0
30-Nov	7	31	6	0	0	0

**Table 2. BON Outflow average for 2005-2014.**

Outflow 10 Yr Avg (kcfs)		
proj:Bonneville		
mm/dd	Avg05-14:BON:outflow (kcfs)	
15-Nov	129.548	
16-Nov	129.783	
17-Nov	130.018	
18-Nov	126.759	
19-Nov	130.671	
20-Nov	129.217	
21-Nov	129.897	
22-Nov	127.818	
23-Nov	127.988	
24-Nov	129.797	
25-Nov	128.907	
26-Nov	133.338	
27-Nov	126.788	
28-Nov	131.865	
29-Nov	132.857	
30-Nov	140.128	



**Figure 1. Bon Outflow 2005-2014 Avg.**

**DART Data Citation**

Columbia River DART, Columbia Basin Research, University of Washington. (2015).  
 River Environment Graphics & Text. Available from  
[http://www.cbr.washington.edu/dart/query/river\\_graph\\_text](http://www.cbr.washington.edu/dart/query/river_graph_text)

**Table 3. Bon OOS (out of service) Units**

Units OOS (out of service)		
Project: Bonneville		
Unit	Start Date	End Date
9 & 10	11/16/2015	2/11/2016
15-18	11/16/2015	2/11/2016
11	12/7/2015	12/10/2015
F2	12/15/2015	2/4/2016

**Comments from agencies**

**Final results- This request is no longer needed due to a change in the dewatering schedule.**

Please email or call with questions or concerns.

Thank you,

Karrie

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