

## MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 04 of 2015, which covers the period from 18 – 24 January 2015.

**1. OPERATION SUMMARY:**

a. Daily average river flows ranged from 184.2 to 240.2 kcfs. Daily average project tailwater ranged from 16.9 to 19.8 msl. Daily average powerhouse forebay elevation ranged from 72.9 to 74.7 msl. Daily average water temperature ranged from 40° to 41°F. Secchi disk measurements ranged from 2.5' to 7' or higher.

b. Spill Bays 01 and 18 provide attraction flow for Cascades Island and B-branch, respectively. Spill bay 01 was closed on 01 December coinciding with the dewatering of Cascades Island for winter maintenance. Daily average spill remained at 0.5 kcfs this week.

c. Unit Operation. Powerhouse one became the priority powerhouse on 01 December. Main unit draw downs are measured every Monday and more frequently as needed.

(1) Table 1. Unit Outages.

Unit	OOS Date	RTS Date	Reason
11	0900 on 09 Sep 2012	---	High thrust bearing temps
F1	0001 on 01 Dec	---	2 year overhaul
F2	1000 on 15 Dec	---	Synch Wiring

d. Unit 11 is estimated to return to service March 2015.

**2. ACTIVITIES:**

a. Auxiliary Water System Closures.  
None.

b. STS/VBS inspections. No inspections occurred this week.

c. Dewatering and Fish Salvage.

None.

**3. RESEARCH:**

a. Normandeau – Fish Counting. Video monitoring continues.

**4. FISHWAYS:**

a. Project biologists inspected 20 - 22 of January.

b. Fish passage plan observations.

(1) Table 4. FPP out of criteria items.

Date	Location	FPP Items	Cause	Response
<b>BRADFORD ISLAND</b>				
1/21	A-branch	FG 3-5 closed	Mechanically bound	Opened
1/22	A-branch	Weir water level > 1.1'	Suspected FV3-7 conduit leak	None
<b>CASCADES ISLAND – Dewatered</b>				
<b>WASHINGTON SHORE – Dewatered</b>				

(2) WG-1, one of the south PH1CC entrances, experienced a gate failure on 17 November. The gate fell and the picking beam fell into the water. Repairs will require the ITS to be closed and are being coordinated for August, 2015.

(3) A-branch diffuser FG3-3 is mechanically bound. Repairs are not possible until A-branch is dewatered below tailwater during the 2015/16 winter maintenance period.

c. Fishway Temperatures. Temperatures are taken from 01 March through 30 November.

d. Zebra Mussel Monitoring. No signs of colonization were observed this reporting week.

e. Adult Fishways.

(1) Calibration occurred on 22 January.

(2) 11 of 12 floating orifice gates (FOGs) are installed; one gate is out for maintenance. FOG SLEDs are installed.

(3) All SLEDs are removed.

f. Juvenile Fishways.

(1) The south end gate of the Ice and Trash Sluiceway (ITS) was removed for repairs. Plating has been placed over the bottom of the guide slot to minimize fish impacts. Reinstallation dates are currently being coordinated for August, 2015.

(2) The hydro-cannon remains out of service.

(3) The B2CC remains closed.

g. Lamprey Fishways.

(1) All LPSs remain out of service.

**5. CONSTRUCTION:**

a. Navigational lock mooring dolphin. Installation by a contractor is currently scheduled for 2-9 February. During that time the lock will need to be briefly shut down.

**6. HAZMAT, SPILLS AND CLEANUP:** Nothing to report.

**7. TELETYPES CURRENTLY IN EFFECT:**

a. A teletype sent on 18 December provides BON tailwater operations for Chum incubation. Effective 1500 on 19 December until further notice, operate to maintain a minimum tailwater of 13.0' at all hours. This operation negates previous Chum tailwater operation teletypes.

b. A teletype sent on 18 December provides the spill caps and lack of load conditions to be used from 1 January until further notice.

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