

MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 08 of 2015, which covers the period from 15 to 21 February 2015.

1. OPERATION SUMMARY:

a. Daily average river flows ranged from 232.7 to 265.7 kcfs. Daily average powerhouse forebay elevation ranged from 71.6 to 73.8 msl. Daily average project tailwater ranged from 19.3 to 21.1 msl. Secchi disk measurements ranged from 4' to 5'. Daily average water temperature ranged from 41° to 42°F.

b. Spill Bay 18 provides attraction flow for the B-branch ladder. Spill bay 01 was closed on 01 December coinciding with the dewatering of Cascades Island for winter maintenance. Daily average spill ranged from 9.1 to 127.2 kcfs.

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
15	1000 on 10 Feb	---	4 year overhaul
11-18	0013 on Feb 17	---	Annual Maintenance

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

2. ACTIVITIES:

a. Auxiliary Water System Closures.

- (1) FV 1-1 closed from 0721 to 0730 on 17 February for cleaning.
- (2) FV 3-7 closed from 1011 to 1114 on 19 February for cleaning.

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

c. Dewatering and Fish Salvage.

(1) On 12 February, Project Biologists were present during the dewatering of the Unit 15 draft tube. No fish were found.

3. RESEARCH:

a. Normandeau – Fish Counting. Video monitoring continues.

4. FISHWAYS:

a. Project biologists inspected 17 – 19 February.

b. Fish passage plan observations.

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

Date	Location	FPP Items	Cause	Response
BRADFORD ISLAND				
2/18-19	A-branch	Weir water level > 1.1'	Suspected FV3-7 conduit leak	None
CASCADES ISLAND – Dewatered				
WASHINGTON SHORE – Dewatered				

(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 19 February.

(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 was opened at 1345 on 14 February.

(4) The DSM remains in service.

g. Lamprey Fishways.

(1) All LPSs remain out of service.

5. CONSTRUCTION:

a. Navigational lock mooring dolphin construction is completed.

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

7. TELETYPES CURRENTLY IN EFFECT:

a. A teletype sent on 16 January provides updated 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 16 January updates the spill caps and lack of load conditions to be used from 1 January until further notice.

c. A teletype sent on 06 February requests that on 17 – 18 February from 0800 to 1300 each day, maintain BON forebay at 71.0 – 72.5', hard constraint, to accommodate boat ramp construction at the Port of Hood River. Do not operate the forebay below 71.5' outside of the construction period, if possible.

(1) Revision sent on Wed Feb 18 extends this through 19 February.

d. A teletype sent on 13 February states that effective immediately through 2400 on 9 April (non-spill season), any involuntary spill must first pass via the B2 corner collector (B2CC) prior to operating the spillway, unless the amount of involuntary spill is less than that required to operate the B2CC.

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