

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

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 07 of 2015, which covers the period from 08 to 14 February 2015.

**1. OPERATION SUMMARY:**

a. Daily average river flows ranged from 237.7 to 272.0 kcfs. Daily average powerhouse forebay elevation ranged from 72.2 to 74.0 msl. Daily average project tailwater ranged from 20.5 to 22.0 msl. Secchi disk measurements ranged from 4' to 6'. Daily average water temperature ranged from 40° to 41°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 0.5 to 27.2 kcfs.

(1) Spill was highest on 11 and 12 Feb. at 26 and 27.2 kcfs respectively, due to BPA request (increased river levels).

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

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

## 2. ACTIVITIES:

### a. Auxiliary Water System Closures.

- (1) FV 1-1 closed from 0733 to 0740 on 09 February for cleaning.
- (2) FV 3-7 closed from 0750 to 0754 on 09 February for cleaning.
- (3) FV 3-9 closed from 0754 to 0800 on 09 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 09 – 11 February.

### b. Fish passage plan observations.

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

Date	Location	FPP Items	Cause	Response
<b>BRADFORD ISLAND</b>				
2/9-11	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 12 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 under construction.

**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.

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 that required to operate the B2CC.

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