

MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 05 of 2015, which covers the period from 25 – 31 January 2015.

1. OPERATION SUMMARY:

a. Daily average river flows ranged from 181.5 to 209.7 kcfs. Daily average powerhouse forebay elevation ranged from 72.7 to 74.3 msl. Daily average project tailwater ranged from 16.2 to 17.3 msl. Secchi disk measurements ranged from 6' to 8' or higher. Daily average water temperature was 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 remained at 0.5 kcfs this week, except for 25 January when spill reached 1.2 kcfs due to spillway calibrations.

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
12	0756 on 30 Jan	0943 on 30 Jan	Digital gov. update
13	1650 on 29 Jan	1708 on 29 Jan	Digital gov. update
13	0650 on 30 Jan	0749 on 30 Jan	Digital gov. update
13	0918 on 30 Jan	0945 on 30 Jan	Digital gov. update
14	1541 on 29 Jan	1649 on 29 Jan	Digital gov. update
15	0949 on 30 Jan	1103 on 30 Jan	Digital gov. update
16	1358 on 29 Jan	1538 on 29 Jan	Digital gov. update
17	0953 on 29 Jan	1111 on 29 Jan	Digital gov. update
18	0630 on 29 Jan	0951 on 29 Jan	Digital gov. update

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

2. ACTIVITIES:

a. Auxiliary Water System Closures.

- (1) FV 3-9 closed from 0729 to 0734 on 26 Jan for cleaning.
- (2) FV 1-1 and FV 3-7 closed from 0800 to 1200 on 26 Jan for ROV inspections.
- (3) FV 4-3 and FV 4-4 closed from 1300 to 1600 on 26 Jan for ROV inspections.

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

c. Dewatering and Fish Salvage. No dewaterings or salvages occurred this week.

3. RESEARCH:

a. Normandeau – Fish Counting. Video monitoring continues.

4. FISHWAYS:

a. Project biologists inspected 26 - 29 of January.

b. Fish passage plan observations.

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

Date	Location	FPP Items	Cause	Response
1/26	PH1	Entrance differentials <1'	Flow reduced for ROV inspections	N/A
BRADFORD ISLAND				
1/26-1/29	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 28 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.

(4) The DSM returned to service at 0100 on 26 January.

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 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.

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Bonneville Project