

MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 06 of 2015, which covers the period from 01 to 07 February 2015.

1. OPERATION SUMMARY:

a. Daily average river flows ranged from 201.3 to 245.1 kcfs. Daily average powerhouse forebay elevation ranged from 72.4 to 73.5 msl. Daily average project tailwater ranged from 17.3 to 20.2 msl. Secchi disk measurements ranged from 2' to 8' or higher. Daily average water temperature ranged from 39° to 40°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 02 February when spill from Bay 18 reached 0.6 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 |

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

2. ACTIVITIES:

a. Auxiliary Water System Closures.

(1) FV 1-1 closed from 0737 to 0745 on 02 February for cleaning.

(2) FV 3-9 closed from 0758 to 0812 on 02 February for cleaning.

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 02 – 04 February.
- b. Fish passage plan observations.

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

| Date | Location | FPP Items | Cause | Response |
|-------------------------------------|----------|-------------------------|------------------------------|----------|
| BRADFORD ISLAND | | | | |
| 2/2-4 | 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 05 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 remains closed.

(4) The DSM remains in service.

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.

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.

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