



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, PORTLAND DISTRICT
BONNEVILLE LOCK AND DAM PROJECT
PO BOX 150
CASCADE LOCKS OR 97014-0150

CENWP-OD-B

30 December 2014

MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 52 of 2014, which covers the period from 21 - 27 December 2014

1. OPERATION SUMMARY:

a. Daily average river flows ranged from 140.8 to 211.9 kcfs. Daily average project tailwater ranged from 15.3 to 19.0 msl. Daily average powerhouse forebay elevation ranged from 72.6 to 74.2 msl. Daily average water temperature was 45°F. Secchi disk measurements ranged from 1.5' to 6.0'.

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.

(1) Due to a failed hoist brake, spill bay 17 has been operated manually since 11 March. Parts are on order. It's expected to return to service in late January.

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
15	0737 on 22 Dec	1615 on 22 Dec	BPA line work
16	0739 on 22 Dec	1614 on 22 Dec	BPA line work
17	0740 on 22 Dec	1613 on 22 Dec	BPA line work
18	0741 on 22 Dec	1612 on 22 Dec	BPA line work
4	0630 on 23 Dec	0941 on 23 Dec	Cooling water switch repair
11	0900 on 09 Sep 2012	---	High thrust bearing temps
F1	0001 on 01 Dec 2014	---	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) FV3-7 closed for cleaning from 0830 to 0835 on 22 Dec.
- (2) FV3-9 closed for cleaning from 0835 to 0844 on 22 Dec.
- (3) FV3-7 floated for cleaning from 1830 on 23 Dec. to 0500 on 24 Dec., 1815 on Dec. 24 to 0500 on 25 Dec., 1810 on 25 Dec. to 0500 on 26 Dec.
- (4) FV3-9 floated for cleaning from 1830 on 23 Dec. to 0500 on 24 Dec., 1815 on Dec. 24 to 0500 on 25 Dec., 1810 on 25 Dec. to 0500 on 26 Dec.
- (5) FV1-1 floated for cleaning from 1830 on 23 Dec. to 0500 on 24 Dec., 1815 on Dec. 24 to 0500 on 25 Dec., 1810 on 25 Dec. to 0500 on 26 Dec.

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

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

3. RESEARCH:

a. Normandeau – Fish Counting. Video monitoring continues.

4. FISHWAYS:

a. Project biologists inspected 22 – 23 December.

b. Fish passage plan observations.

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

Date	Location	FPP Items	Cause	Response
12/24		No inspection by bio	No personnel available	N/A
BRADFORD ISLAND				
12/22	A-branch	Water over weir >1.1'	Unknown	NA
12/22	A-branch	FG3-5 closed	Unknown	None
12/23	SCCH	Differential <1.0'	WG-01	NA
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 April, 2015.

CENWP-OD-B

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 52 of 2014, which covers the period from 21 - 27 December 2014

(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 23 December.

(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 April, 2015.

(2) The DSM remains in service.

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

(4) The B2CC remains closed.

g. Lamprey Fishways.

(1) All LPSs remain out of service.

CENWP-OD-B

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 52 of 2014, which covers the period from 21 - 27 December 2014

5. CONSTRUCTION:

a. Navigational lock mooring dolphin. Installation by a contractor is currently scheduled for January. 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 29 August provides the spill caps and lack of load conditions to be used from 1 September through 31 December.

b. 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.

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

JERRY A. CARROLL
Operations Manager
Bonneville Project