

MEMORANDUM FOR: FPOM MEMBERS

**SUBJECT: Bonneville Lock and Dam Fishway and Construction Activities Report for May 11, 2004
FPOM meeting.**

1 CONSTRUCTION STATUS

- 1.1 PH 2 Corner Collector Hi-Q PIT tag detector- Prototype antenna construction started on Cascades Island.
- 1.2 B2 Follow-on. The airburst system is in auto.
- 1.3 SMF hydrocannons. The hydro cannons at the SMF are not operational at this time. The Project is working on repairs.
- 1.4 Adult PIT tag exit detectors. Current schedule is set for installation in both ladders for Winter 04/05.
- 1.5 Head Gate Delivery. Off loading of headgates at PH1 is scheduled for 07 June 2004.
- 1.6 PH 1 Gantry Crane Delivery and Erection. Scheduled for 9 August through 4 December.

2 FISHWAY SUMMARY

- 2.1 Unit operation.
 - 2.1.1 Unit 0 was out of service from 1238 until 1419 on 26 April due to governor low oil pressure.
 - 2.1.2 Unit 1 remains out of service for turbine rehab.
 - 2.1.3 Unit 2 was out of service from 1117 until 1800 on 22 April to replace HUB air compressor.
 - 2.1.4 Unit 4 was out of service from 1004 until 1710 on 19 April due to scintillation frame installation. On 27 April, the project received a teletype indicating MU4 to be first on and last off to facilitate fish releases for the MGR study.
 - 2.1.5 Unit 15 went to manual 3D cam adjustment at 0933 on 05 April. The cam was automatically adjusting and draining power which led to a governor lock up and complete loss of control. New modules are on order.
 - 2.1.6 Unit 16 went out of service at 1010 on 03 May for air cylinder brake repair.
 - 2.1.7 Unit 17 was out of service from 0407 on 26 April until 1546 on 27 April to repair servo motor.
 - 2.1.8 Fish Unit 1 (F1) was out of service from 0748 until 0814 on 04 May for trash raking.
 - 2.1.9 Fish Unit 2 (F2) was out of service from 0706 until 0748 on 04 May for trash raking.
- 2.2 On 19 April gate hoists for spillbays 1 and 18 were found to be damaged and a safety hazard. Bays 1 and 18 were dogged off at 2 dogs (2.9 feet). On 20 April, the bays were dropped to one dog (one foot) in an effort to reduce turbulence at the fishway entrances. Per a 21 April teletype, spill will be compensated through adjacent bays 2 and 17 and through 3 and 16 in one foot increments. Repairs to gate hoists will begin 11 May.
- 2.3 DSM2 airburst is in auto. Runs every three hours.
- 2.4 DSM1 remains out of service.
- 2.5 B2CC in service.

3 RESEARCH

- 3.1 Battelle/BAE Systems FGE testing. Hydroacoustic installation complete. Data collection continues.
- 3.2 Battelle/BAE Systems Gap Loss Testing. Data collection began 06 May.
- 3.3 CRITFC. Sampling twice a week.
- 3.4 ERDC TDG. Sensors remain installed in the tailrace.
- 3.5 ODFW Pikeminnow Tagging. Electrofishing in Bonneville's forebay and tailrace.
- 3.6 NOAA FISH lamprey. Lamprey ladder installation in May - June.
- 3.7 PSMFC SMF. Six steelhead and one salmon slid over the separator bars this week. Approximately 670 clipped yearling chinook and 290 clipped steelhead were held for USGS. High mortality occurred on 1 May when 68 smolt were killed due to fish lift failure and loss of flushing water to the lift.
- 3.8 PSMFC PIT tag. Testing an antenna for the serpentine sections of the fishways.

- 3.9 USGS FPE testing. Installation of Radio telemetry equipment complete. First tagged fish release on 29 April.
- 3.10 University of Idaho. Sampling daily in the AFF starting 05 April.
- 3.11 Wildlife Services/Avian Abatement. Birds were hazed this reporting week with rockets, cracker shells, and 15mm pyrotechnics. None were lethally taken.
- 3.12 WDFW Fish Counting. 16-hr visual counts at Washington Shore and Bradford Island.

4 MISCELLANEOUS

- 4.1 Sea lions and harbor seals have been observed in the tailrace of both powerhouses and the spillway. No action is being taken by the project to harass, harm, or otherwise annoy these animals.
- 4.2 Bonneville SMF Juvenile Mortality (Agenda Item 7).