

**FISH PASSAGE O&M COORDINATION TEAM**  
**Adult and Juvenile Fish Facilities Status Report**  
**U.S. Army Corps of Engineers**  
**Walla Walla District**  
**October 11, 2007**

**Construction**

**McNary:**

- Turbine units 11 and 12 returned to service September 19 after transformer replacement.
- Turbine units 13 and 14 remain out of service for transformer replacement.
- Turbine unit 9 underwent annual maintenance from October 1 to October 4.
- Turbine unit 4 returned to service October 5 after thrust bearing cooler replacement.
- Turbine unit 1 remains out of service for 9 year overhaul.
- Over the last month, short term turbine unit outages ranging from 2.7 to 9.5 hours in duration took place for research antenna removals as follows: turbine units 2 (twice), 3 (three times); and turbine units 5, 7 and 8 (once each).
- Note: some outages are lasting longer than expected due to problems with Intake Deck Crane #5 gearbox maintenance issues and problems with headgate dogging pins.

**Ice Harbor:**

- Turbine unit 6 back in service from annual maintenance.
- Turbine unit 2 - Annual maintenance and blade welding in progress.
- Turbine unit 5 taken out of service September 24 for annual maintenance.

**Lower Monumental:**

- Turbine units 5 out of service for annual maintenance.
- Turbine unit 6 out of service in support of RSW construction.
- Spillgates 3-8 out of service in support of RSW construction.
- RSW construction: All turbine units removed from service October 4 from 1006 to 1630 hours for RSW anchor placement in the forebay.
- All STSs were inspected Oct 1 and 2. All were found in satisfactory condition.

**Little Goose:**

- Turbine unit 1 is back in service from annual maintenance.
- Turbine units 2 & 3 returned to service following second Doble test and transformer repair on September 15.
- Turbine unit 3 removed from service September 24 for 6 year overhaul and cavitation repair.
- Turbine unit 4 returned to service September 22 following main breaker repairs.
- Transmission line outage forced unplanned powerhouse outage September 22. Station service lost for 10 minutes. Outage caused by bird contacting transmission line, causing a small wildfire. Fire extinguished within 2 hours. A 21.6 kcfs spill took place from 0630 – 0715 hours to maintain river flow during the turbine outages.

**Lower Granite:**

- Turbine unit 2 remains out of service for rewind and 6-year overhaul, with completion is not expected until January 2008.
- Turbine unit 3: 6 year maintenance and cavitation repair. Estimated return to service: Jan. 2008.
- Turbine unit 5: Returned to service October 9 following annual maintenance and main breaker replacement.
- Turbine unit 6: returned to standby status following annual maintenance and main unit breaker replacement October 2. However, this turbine unit was unavailable until October 9 as transmission line 2 was out of service.

## ***Operations and Maintenance - Juvenile Fish Facilities***

### **McNary:**

- Transport Facility: Collection ceased September 14 due to excessive numbers of American Shad and bryozoans in the fish collection. The last fish truck was sent out September 14. Facility is currently in primary bypass.
- VBS monitoring revealed 4 screens outside criteria, 2 VBSs cleaned September 14, the other two VBSs were in turbine units slated to be taken out of service.
- Primary Dewaterer: One of the rectangular cleaning screen's brush retraction cables broke on September 25 at 0044 hours. Repairs required a partial dewatering of collection channel lasting approximately 3 hours. System was back in full service by 1645 hours. As a precautionary measure, the screen cleaner is being turned off at night. Since September 28, operators have monitoring the channel at night and biologists monitor the channel during the day shift.

### **Ice Harbor:**

- No problems were found during September STS inspection.

### **Lower Monumental:**

- Spill gate 1 is out of service so that the spill gate bulkhead storage pit can be used for overhaul, maintenance and sandblasting of STSs.
- STS inspections took place Sept 17, 22, 24; October 1 and 2. No problems found.
- Collection for transport ended September 30. Last truck sent out October 1.
- Primary Dewaterer Screen Cleaner: cleaning brush cable failed Aug 24 and remains out of service. Repairs will take place during the winter maintenance period. Air burst system cycle time decreased to keep inclined screen clean.

### **Little Goose:**

- Collection and transport in progress.

### **Lower Granite:**

- ESBS and VBS operating satisfactorily except for VBS in slot 2C which may have a possible gearbox oil leak. This screen has been raised for inspection.
- Collection and transport in progress.
- Systems tests conducted mid-September by Lund Engineering revealed that the RSW could not return to the fully stored position. A dive inspection of the submerged structures took place September 28. The RSW will remain in the unstored position until the results of the inspection are fully evaluated.

## ***Operations and Maintenance - Adult Fish Facilities***

### **McNary:**

- Oregon Ladder: Fish pump 3 remains out of service for overhaul. The return to service date is uncertain due to shaft alignment problems.
- Washington Ladder: Ladder operation has been satisfactory. No interruptions in Wasco PUD turbine unit operations this month.

### **Ice Harbor:**

- North Shore fish pump #1 out of service for warranty work. Gear reducer repairs in progress.
- South shore fish pump #2 out of service Sept 25-27 due to motor noise and bearing failure.

### **Little Goose:**

- Fish pump operations were affected by the September 22 transmission line outage. Although fish pumps 1 and 3 were back in service by 0645 hours, fish pump 2 would not restart. Fish pump 2 was placed back into service September 24 at 0808 hours. Operating fish pump RPMs were increased while fish pump 2 was out of service.

**Lower Granite:**

- The adult fishway is operating satisfactory except for the North shore entrances. There is not enough water to maintain both weir depths and the requisite 1.0 foot of head differential at the north shore entrances resulting in a trade-off situation most of the time.

***Research*****Lower Monumental:**

- Battelle forebay research equipment maintenance conducted October 2. This work required all turbine units removed from service from 1520 to 1720 hours.

**Little Goose:**

- Fish salvage took place in turbine unit 3 scrollcase on September 24. Three channel catfish, one sucker, and one crappie were released to the adult fish ladder in good condition.
- Research involving limited take of cormorants to determine species composition and degree of fish consumption commenced October 4.

**Lower Granite:**

- Adult trap operations in progress. Chinook are being trucked to both Lyons Ferry and the Tribal Hatchery at Cherry Lane for supplementation brood stock use. All steelhead are being examined for run determination and condition. Scale samples are being taken from one out of every six wild steelhead. In addition, unclipped steelhead greater than 77 cm in length are being radio tagged. Some of these fish are also fitted with v.i.e. tags for the U.S. Fish and Wildlife Service (Dworshak Office). This work is to continue throughout the fall.