

**FISH PASSAGE O&M COORDINATION TEAM**  
**Adult and Juvenile Fish Facilities Status Report**  
**U.S. Army Corps of Engineers, Walla Walla District**  
**August 20, 2009**

***Construction***

**McNary:**

- Turbine unit 1 taken out of service August 10 for annual maintenance.
- Turbine unit 2 taken out of service July 10 for 9-year overhaul.
- Turbine unit 3 out of service July 27 – 30 for annual maintenance.
- Turbine units 7 & 8 remain out of service for transformer T4 replacement,

**Ice Harbor:**

- Turbine unit 2 was taken out of service for annual maintenance from June 23 to July 30.
- Turbine unit 4 taken out of service for annual maintenance on August 11.
- Turbine units 5 & 6 taken out of service for annual maintenance from August 3 to August 14.

**Lower Monumental:**

- Turbine unit 6 began annual maintenance July 13.
- Doble tests conducted July 20 – 24.

**Little Goose:**

- Turbine unit 3 taken out of service July 28 for annual maintenance.
- Turbine unit 4 underwent annual maintenance from July 6 to July 23.

**Lower Granite:**

- Turbine unit 4 was out of service from July 7 to August 3 for annual maintenance.
- Turbine unit 6 taken out of service August 3 for annual maintenance.
- Transmission line Doble tests took place from August 10 – 13. Turbine units 1 through 4 were taken out of service during daytime hours in support of these tests.

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

Collection for fish transport continues at Lower Granite, Little Goose and Lower Monumental dams. Every-other-day barge departures began June 1 and ended in these locations on August 14. Collection for every-other day barge transport operations began at McNary Dam on July 15 and continued until July 22 when collection was suspended and primary bypass operations began. Collection for transport resumed July 23 when daily barge departures became possible at McNary Dam. The last barge of the season departed McNary Dam on August 15. All locations began fish truck operations on August 16. The Bonneville truck pad modifications were successfully tested with a 3,500 gallon tanker practice run on August 6.

**McNary:**

- Elevated river temperatures resulted in increased fish mortalities on July 16, 17, 18 and 20. Mortality rates have dropped considerably as river and facility temperature gradients moderated.
- North powerhouse loading initiated July 17 for temperature abatement in juvenile fishway.
- 830 cu. yds. of debris removed from trash racks in turbine units 9 – 14 on July 21 and 22.

**Ice Harbor:**

- The 2009 sampling season ended July 17 due to declining fish numbers and facility water temperatures approaching 70 degrees F.
- STSs switched from continuous to cycle mode on August 3 as average fork length of juvenile sockeye and Chinook are now greater than 120 mm at Lower Monumental.
- Screen cleaner power supply failed August 4. Repair parts have been ordered. Powerhouse operators and fish facility personnel are the monitoring collection channel and inclined screen.

**Lower Monumental:**

- STSs switched from continuous to cycle mode on July 30 as average fork length of juvenile sockeye and Chinook are now greater than 120 mm.
- STS in slot 1C: Seven mesh cross bars were discovered loose or missing August 3. All were repaired or replaced the same day. None of the loose or missing bars presented a hazard to fish.

**Little Goose:**

- The primary dewaterer weir motor failed July 20 and is currently undergoing repairs. Water levels are being maintained by the opening and closure of orifices.
- Separator cleaned August 6. Three cubic yards of debris and mud removed. Approximately 1,000 juvenile lamprey (all alive) were salvaged and released to the river.

***Operations and Maintenance - Adult Fish Facilities*****McNary:**

- Oregon Ladder: North AWS taken out of service May 28 following failure. South AWS continues to provide sufficient water. South AWS idler sprocket replaced July 13. Trash rack raked August 4 and 18.
- Fish Pumps: Pumps #1 & #2 are in service. Fish Pump #3 returned to service August 13.
- NFE3: Weir elevation electronic display (LED) replaced July 31.

**Ice Harbor:**

- North Shore Fish Pumps: Fish pumps #1 & #2 in service. Fish Pump #3 is being repaired under warrantee.
- NFE-2 out of service July 26 – 27 when weir brakes failed. NFE-1 operated in place of NFE-2 during the outage.
- North Shore Channel: Sonar based channel elevation measuring equipment failed July 28. Older meta-tape measuring system placed into to service. Repair parts have been ordered.

**Lower Monumental:**

- Fish Pumps 1 & 2 in service. Fish Pump #3 remains out of service for diffuser assembly repairs and bearing housing replacement.

**Little Goose:**

- NPE3: Above water video inspection took place July 7. The bulkhead sealing off this entrance appears to have deteriorated. Fishway performance does not appear to be adversely affected at this time and criteria continues to be met.
- NSE1: Weir motor failed June 30. Manual operation was necessary until repairs were completed July 20.
- Adult collection channel: A two foot section of the fallout fence has separated from the support frame. Adult fish appear to be passing though this area safely.

**Lower Granite:**

- Fish pumps 1 and 3 in operation. Fish pump 2 repairs completed July 10 and placed in standby status until planned tests can be completed.

***Other*****McNary:**

- Both TSWs are in service.
- USGS juvenile fish PIT tagging activities ended July 27.
- Juvenile lamprey study resumed with the start of fish transport operations.
- The number of exotic shrimp present in raceways appears to be higher than in previous years.

- Bird hazing activities ended June 29.

**Ice Harbor:**

- RSW in operation.
- Cooling water strainers in turbine units 5 and 6 were inspected August 3. Three juvenile lamprey mortalities were recovered, two from turbine unit 5 and one from turbine unit 6.

**Lower Monumental:**

- RSWs is in operation.
- Cooling water strainers inspected July 13, 15 juvenile lamprey mortalities recorded.
- Adult fish counts interrupted July 27 from 1315 – 1340 hours due to contractor illness.
- Fish salvage operations took place in Turbine unit 6 scroll case on July 28. One channel catfish was recovered and released in good conditions. No other fish were observed.

**Little Goose:**

- TSW placed into high crest configuration July 8.
- Smolt Passage and Survival Study – study began April 16.
- Cooling water strainers in turbine unit 4 were inspected July 8. No fish or fish remains observed.
- Cooling water strainers were inspected in turbine units 1,2,4,5, and 6 on August 10. No fish were found.

**Lower Granite:**

- Adult trap operation suspended July 19 due to high water temperatures and problems with the slide gate air valve control to the anesthetic tank.
- RSW is in operation.
- Cooling water strainers inspected in turbine unit 4 on July 14. One live and 3 dead juvenile lamprey were recovered.
- USGS subyearling Chinook research in progress.