

FISH PASSAGE OPERATION AND MAINTENANCE

THE DALLES DAM/ JOHN DAY DAM

10/11/07

CONSTRUCTION STATUS

- John Day south fish turbine rehab preparation completed. Ready for start first week of December.
- John Day overhaul of 2 north pumps in progress. Remaining 4 pumps are available.

FISHWAY STATUS

The Dalles Dam

- **North Fishway** – Entrance weir N1 operation approx 9' depth. PUD turbine in operation.
- **East Fishway** – East entrance weirs E2/E3 operating approx 12.5' deep. E1 operating approx 4' deep to maintain differential criteria. West entrance W1/W2 maintaining approx 8.5' depth. South entrance S1/S2 maintaining 8' depth. Both fish units in operation with approx 4300cfs discharge.
- **Ice/Trash Sluiceway** – Sluice gates 1-1, 1-2, 1-3, 5-2, 19-2 and 19-3 open with respective units in service. Unit 1 was out of service for maintenance past several weeks. Sluice gates were closed on unit 1 and open on unit 2 to compensate.
- **Spillway** – Closed for season.
- **Predation Issues** – No gulls observed. Cormorant and merganser numbers increasing, typical for fall. USDA hazing contract '07 completed. Planning underway for avian lines/hazing '08. Planning underway for possible dam angling continuation '08.
- **Powerhouse** – Units 13-16 and 21 out of service. Priority operation of 1, 5, 19 for sluiceway attraction flow.
- **Winter maintenance planning** – East fishway scheduled to be out of service first week of Dec through first week of Feb. Primary work planned; diffuser grating replacement for lower ladder, junction pool and east entrance, however the 1" gap in the replacement grating is still in question. Also plan to seal leaking expansion joints. North fishway scheduled to be out of service last 3 weeks of Feb. Primary work planned; brush removal from rock walls and count station grating replacement.

John Day Dam

- **North Fishway** - Entrance weir EW1 maintaining approx 8.3' depth. Three of 4 available pumps in operation.
- **South Fishway** – SE1 weir maintaining 8.5' depth. Floating orifice gates at units 1,2,18 and 19 open. All 3 turbine/pumps in operation. Planning underway for test of 2 turbine/pump operation last week of Nov, in preparation of '08 season 2 turbine/pump operation during third turbine/pump rehab. Includes closing floating orifice gates at unit 2 and 18.
- **Juvenile Bypass System and Smolt Monitor Facility**– STS visual inspection and trashrack rake completed last week. No problems found. Smolt Monitor Facility out of service. Juvenile bypass system in SMF bypass at crest gate.
- **Spillway** – Closed for season.
- **Predation issues** – Very few gulls observed. Some grebes in forebay. Cormorant numbers increasing, typical for fall. Planning underway for avian line/hazing '08. Planning underway for possible dam angling continuation '08.
- **Powerhouse** – Unit 9- 13 and 16 out of service for maintenance.
- **Winter maintenance planning** – South fishway scheduled to be out of service first week of Dec through first week of Feb. Primary work planned; start of south fish turbine rehab (first of 3 at 1 per year) and lower 3 ladder weir removal (District planned contract). North fishway scheduled to be out of service last 3 weeks of Feb. No major work planned.

RESEARCH

- University of Idaho radiotelemetry data collection continues.
- Planning underway for large scale research efforts for John Day '08.