

# FISH PASSAGE OPERATION AND MAINTENANCE

## THE DALLES DAM/ JOHN DAY DAM

### 9/13/07

#### CONSTRUCTION STATUS

- The Dalles powerhouse crane rehab completed. Project now able to rake turbine trashracks if needed.

#### FISHWAY STATUS

##### The Dalles Dam

- **North Fishway** – Entrance weir N1 operation approx 9' depth. No problems.
- **East Fishway** – East entrance weirs E2/E3 operating approx 12.5' deep. E1 operating approx 6' deep to maintain differential criteria. West entrance W1/W2 maintaining approx 8.3' depth. South entrance S1/S2 maintaining 8.3' depth.
- **Ice/Trash Sluiceway** – Sluice gates 1-1, 1-2, 1-3, 5-2, 19-2 and 19-3 open.
- **Spillway** – Closed for season Sept 1.
- **Predation Issues** – Gulls numbers non existent. USDA hazing contract present through Sept. Plans for '08 include reducing length of hazing contract and expanding spillway avian line grid for more effective coverage. USDA pikeminnow dam angling concluded with high catch rate. Likely discontinuation of this BPA managed program in '08. Recommend investigating including as part of the gull hazing program. Cost and effectiveness of both programs being evaluated.
- **Powerhouse** – Unit 9-12 and 21 out of service for maintenance. Priority operation of 1, 5, 19 for sluiceway attraction flow. Unit 21 dewatered for maintenance. Approx 120 sturgeon and 30 catfish removed from draft tube and released to tailwater. Approx 15 small sturgeon died on drain grate. Three bass and 1 dead sub Chinook removed from scroll case.
- **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. North fishway scheduled to be out of service last 3 weeks of Feb. Primary work planned; brush removal from rock walls.

##### John Day Dam

- **North Fishway**- Entrance weir EW1 maintaining approx 8.1' depth. Three of 4 available pumps in operation. Project maintenance starting rehab of remaining 2 pumps.
- **South Fishway** – SE1 weir maintaining 9' depth. Floating orifice gates at units 1,2,18 and 19 remain 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 of Aug. One minor mesh tear found and repaired. Unit 7 rail repair planning underway by project engineering to allow camera access to unit 7 gateway.
- **Spillway** – Closed for season Sept 1.
- **Predation issues** – Gull numbers very small. Grebes and gulls in the forebay also dramatically reduced. Planning underway for spillway avian line grid improvements. USDA pikeminnow dam angling concluded with very high catch rates. Refer to previous comment on dam angling program continuation.
- **Powerhouse** – Unit 7, 10, 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.
- PNNL Battelle removing equipment at The Dalles unit 1.