

Bonneville Powerhouse 1

Dredge Bradford Island ladder exit

The exit has silted in and needs to be dredged to allow for efficient adult fish egress. Looking at getting dredging done in FY 08.

Remove obstructions from turbine environment

Turbine obstructions are removed as units are taken down.

Bradford/Cascade Islands fishway report phase 2

Phase 1 was completed in 2004 and it was the first half of a two phase series.

Replace diffuser valves

Many diffuser valves in the A-branch ladder and collection channel are not functioning making it difficult to keep the ladder in criteria.

Remove FV3-8

The fish valve is inoperable and its removal will decrease the risk of contamination of the fishway through grease/oil leaks. Need someone to sign off on removal.

FV3-7 AWS conduit leak

The conduit for the auxiliary water supply leaks through the sidewalk along the A-branch ladder. On the critical infrastructure list.

PLC/programming for Bradford/Cascades Is.

B-branch and Cascades Island require a major overhaul to the software/programming that control the valves and diffusers in the adult ladders. May need two years to investigate the problem and then repair or replace.

Spalling/erosion in Bradford/Cascades Is.

There are many places where the age of this concrete is starting to show and needs to be repaired. On the critical infrastructure list.

Fill PH1 collection channel diffuser pits

Several of these diffusers are no longer used and removing the old equipment will remove a contaminant source as well as allow us to smooth out the collection channel. Still need engineering. Want to fund an assessment in FY 08.

Replace diffuser gratings

As the gratings wear out, we should replace them with grating of a size that precludes lamprey passage through them. Need hydraulic review.

Small Cap

Replace PH1 leaking bulkhead

There is a wooden bulkhead leaking badly at the south end of Powerhouse 1.

Bonneville Powerhouse 2

Dredge forebay

The forebay could need this dredging currently and sediment release from the Condit dam breaching will increase the need.

Bass lake habitat plan

The Bass Lake project is part of the mitigation for Powerhouse 2 construction and is ongoing in terms of restoration and monitoring.

Replace SMF switchgate seals

The seals need to be replaced with something more durable as the switchgates will be operated more frequently in coming years.

Repair North shore monolith expansion leak

The major leak was patched in 2005 but there is follow-up work to be done.

Repair/replace fishway diffusion valves

Valves 3 and 4 do not operate. Not currently a problem but may be if they needed to be closed.

Automated raking system

Cleaning the trash racks is a time consuming and dangerous practice done by hand by the rigging crew and an automated system would increase efficiency and safety.

Avian cannon replacement

The water line is currently made of PVC piping which degrades in UV light. It needs to be replaced with metal.

Repair fish ladder channel exit bulkhead

The existing bulkhead failed the hydraulic steel structure inspection so it needs to be replaced to allow us to dewater that section of the ladder.

Replace diffuser gratings

As the gratings wear out, we should replace them with grating of a size that precludes lamprey passage through them. Need to remember the fiberglass grates around the PIT tag detectors.

Large Cap

Rehabilitate TIES

The TIES need to be sandblasted and painted.

Corner collector hoist

We do not have the ability to open the corner collector with any project cranes except the TIE crane. If the corner collector is to be opened and closed often due to TDG issues, then a hoist is the appropriate solution.

TIE crane boom

It is cracked and most likely needs a full boom replacement.

THE DALLES

Replace east shore diffuser grating

North fish ladder replace '99. East fishway grating purchased with approx 5% installed last winter outage due to late delivery. Approx 70% new grating on site, to be installed next winter outage season. Possible need to purchase remaining 30%.

Hydraulic Evaluation of Adult Fishway

In the 2000 BiOp. RPA 120

Install SCADA fishway control

We need automation upgrade and better monitor coverage of most fishway inspection points. Planning underway. Will involve real time alarm system in fish office and control room. Will also include data logging capability for 24/7 monitoring.

New entrance weir

Presently patching together weir for S1. Need new weir to replace it. Patched weir will serve as a spare for north (N1) and south (S1, S2) weirs.

North dewater pump replace

New requirement for dewatering entrance are below tailwater. Pump was shared for navlock and fishladder dewatering. Moving puts added wear/tear on pump. Project wants to keep old one at navlock and buy new for north fishway.

Spare diffuser valve

Valve on east fishway found on poor condition. Others inspected were not as bad. Project wants spare available to change out with worn ones as needed.

Count station HVAC

Replacement of old ventilation system to address ventilation issues for north and east count stations.

JOHN DAY

STS refurbish

All 48 STSs in need of total rehab by disassembly, sandblast and repaint. High transport cost to do off site. Decision was to construct facility on site with cost share from power funding.

Install count station brush

Presently no brush system. Window and crowder cleaned by hand. Also needs new crowder. Presently under consideration with North fishway improvements study.

Fill SE1 wall diffuser

FPOM decision needed for filling chamber or rehabbing diffuser.

Decision document on N fish count station

Included in North fishway improvement study.

Small Cap

Install penstock isolation valve

Project needs to evaluate if needed.

Spare SE1 weir

Presently no spare for SE1, NE1 or NE2. SE1 top priority

EW3 concrete bulkhead or wall

Unused side entrance for north fishway entrance. Steel bulkheads in place now. Spill used to beat bulkhead with turbulence. Need presently not as great with spillgate 1 left closed on new spill pattern.

Fishway automation upgrade

Plans underway to upgrade automation system with same features as The Dalles.

North pump rehab

5 pumps rehabbed. 1 remaining. Only able to use 3 pumps simultaneously, thus not urgent need. North fishway improvements study considering replacement.

Large Cap

Rebuild So shore AWS pumps

Planning presently underway for rehab turbine gearbox and pump at same time. One per year. First next outage season.