

Adult Fish Passage Facilities – 2023-2024 Winter Maintenance Schedule

U. S. Army Corps of Engineers Walla Walla District

Winter fishway maintenance period occurs from **1 January to 29 February**. In general, each fishway will be taken out of operation for one month during which the alternate fishway will remain in service. All dates during the maintenance period are tentative and subject to change.

MCNARY DAM¹ - Washington Shore Fishway

1. **1 February:** Place ladder on orifice flow. Wasco PUD will shut down.
2. **2 February:** Place exit and conduit stoplogs; Wasco PUD shuts down bypass flow; project dewateres the WA fish ladder down to the tailwater level.
3. **3 February-28 February:** Complete winter maintenance according to the current Fish Passage Plan, Section 2.4.1.
4. **29 February:** Resume normal operation of the ladder and small hydro/auxiliary water system.

MCNARY DAM¹ - Oregon Shore Fishway

1. **4 December:** Shut down AWS Fish Pumps then place the ladder on orifice flow.
2. **5 December:** Use ladder crane to install the exit logs and juvenile passage stop logs. Perform physical inspection of ladder to tail water.
3. **6 December-30 January:** Complete winter maintenance according to the current Fish Passage Plan, Section 2.4.1. Dewater grating and system for inspection. Grating that cannot be dewatered will be camera inspected.
4. **31 January:** Resume normal ladder flow and pump operation.

ICE HARBOR DAM¹ - North Shore Fishway

1. **31 January:** Shut down the AWS pumps.
2. **1 February:** Dewater the fish ladder.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.4.1.
4. Inspect the collection channel by unwatering and physical inspection. ¹
5. Perform maintenance on the AWS pumps, including replacing the leaky hydraulic cylinder on the butterfly valve and replacing the pre-lube motor on AWS pump #1.
6. Replace diffuser #10 limit switch and corroded diffuser #10 grating.
7. Modify the trash rack for diffuser #10 intake to prevent fish from entering through the gap around the picking eyes and getting into the diffuser chamber.
8. Repaint fish count slot backboards.
9. Install stilling well pipes for water temperature probes.
10. Replace damaged/missing staff gauges as logistically feasible.
11. Maintain adult PIT tag system as required. Coordinate with PSMFC.
12. Install Okum in leaking ladder joints.
13. **29 February:** Resume normal operation of the fish ladder and AWS pumps.

ICE HARBOR DAM¹ - South Shore Fishway

1. **1 January:** Shut down the AWS pumps.
2. **2- January:** Dewater the fish ladder for maintenance.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.4.1.
4. Inspect the collection channel by video inspection with the ROV. ¹
5. Perform maintenance on the AWS pumps, including replacement of AWS pump #6 gearbox.
6. Investigate why SFE-1 weir gets bound in the guide slots when lowering down and repair accordingly.
7. Replace damaged/missing staff gauges as logistically feasible.
8. Replace worn out components of the south shore fish window cleaning system.
9. Repaint fish count slot backboards.
10. Maintain adult PIT tag system as required. Coordinate with PSMFC.
11. Install Okum in leaking ladder joints.
12. **31 January:** Resume normal operation of the fish ladder and AWS pumps.

LOWER MONUMENTAL DAM - South Shore Fishway

1. **2 January:** Turn off fish pumps.
2. **3 January:** Dewater and salvage fish in South fishway.
3. Repair leaking joint.
4. Install new staff gauges.
5. Install temperature probe still wells.
6. Complete winter maintenance according to the Fish Passage Plan, Section 2.4.1.
7. **11 January:** Return fishway to operation.

LOWER MONUMENTAL DAM - North Shore Fishway

1. **15 February:** Turn off fish pumps.
2. **16 February:** Dewater and salvage fish in North fishway.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.4.1.
4. Perform annual maintenance on the AWS pumps.
5. Install new staff gauges.
6. Install temperature probe stillwells.
7. **29 February:** Return fishway to operation.

LITTLE GOOSE DAM¹

1. **2 January:** Shut down the AWS pumps and pull picketed leads.
2. **3 – 4 January:** Dewater the fish ladder and adult collection channel for inspection and maintenance in accordance to the Fish Passage Plan, Section 2.4.1.
3. **8 January – 23 February:**
 - a. Inspect and repair/replace lost fall-out fence components/infrastructure.
 - b. Inspect the adult fish channel grating, note deficiencies and initiate repairs.

- c. Inspect adult fish ladder expansion joint seals.
- d. Continue to replace seals on fish channel bulkheads.
4. Coordinate with PSMFC for maintenance to the adult PIT tag system, to be complete no later than **29 February**.
5. No later than **29 February**: Resume normal operation of the AWS pumps.

LOWER GRANITE DAM¹

1. **2 January** – Shut down the AWS pumps.
2. **3 January – 9 February**: Dewater the fish ladder.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.4.1.
4. Inspect the collection channel by dewatering.
5. Perform maintenance on the AWS pumps.
6. Inspect the adult fallout fence and repair as needed.
7. Routine maintenance of adult trap.
8. Inspection of the NSE1 and NSE2 concrete weir gates.
9. Inspect fish ladder PIT tag arrays.
10. Relocate/upgrade/repair fish ladder staff gauges.
11. No later than 29 February: Resume normal operation of the AWS pumps.