Adult Fish Passage Facilities – 2014-2015 Winter Maintenance Schedule

**U. S. Army Corps of Engineers**

**Walla Walla District**

**MCNARY DAM1 - Washington Shore Fishway**

1. **Sunday, January 4:** Place ladder on orifice flow. Wasco PUD shuts down Wasco hydro and switches to bypass flow.
2. **Monday, January 5:** Place exit stoplogs; Wasco PUD shuts down bypass flow; project dewaters the WA fish ladder down to the tailwater level from **January 5 to January 16** for maintenance. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
3. **Monday, January 5:** Video camera inspection of diffuser gratings.
4. **January 5 to January 16:** WASCO PUD performs annual maintenance on their small hydro project, bypass and auxiliary water supply system.
5. **January 5 to January 16:** PSMFC maintains adult PIT tag system as required. Fish will coordinate with PSMFC and General Maintenance.
6. **January 5 to January 16:** U. of Idaho maintains half-duplex PIT (lamprey) antennas. Fish will coordinate with U. of Idaho and General Maintenance.
7. Resume normal operation of the ladder and small hydro/auxiliary water system by **Friday, January 16.**

MCNARY DAM1 - Oregon Shore Fishway

1. **Monday, January 19 (holiday):** Shut down AWS Fish Pumps 1 and 3 early AM, and place ladder on orifice flow.
2. **Tuesday, January 20:** Use ladder crane to close Tainter valve and place exit, travelling screen and juvenile passage stop logs. Close Chapman valve.
3. **Tuesday, January 20:** Perform physical inspection of upper ladder and camera inspection of the watered sections of the lower ladder.
4. **Tuesday, January 20 through February 27:** With assistance from divers as needed, dewater south junction pool and southernmost section of the powerhouse channel, inspect and clean fish pump entrances and make any necessary repairs to diffuser gratings.
5. **Tuesday, January 20 through February 27:** Use divers to inspect experimental lamprey passage structure on SFEW2.
6. **Tuesday, January 20 through February 27:** Perform routine winter maintenance on AWS Fish Pumps 1 and 3; rebuild Fish Pump 2 (rebuild may extend beyond Feb 27).
7. **Tuesday, January 20 through February 27:** Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
8. **Tuesday, January 20 through February 27:** Maintain adult PIT tag system as required. Coordinate with PSMFC.
9. Resume normal ladder flow and pump operation by **Friday,** **February 27**.

ICE HARBOR DAM1 - North Shore Fishway

1. Shut down the AWS pumps on **January 30.**
2. Dewater the fish ladder from **February 2 – February 26.**
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
4. **Inspect the collection channel by dewatering and direct observation.** 1
5. Perform maintenance on the AWS pumps.
6. Maintain adult PIT tag system as required. Coordinate with PSMFC.
7. Maintain half-duplex PIT (lamprey) antennas. Coordinate with University of Idaho.
8. Remove old horizontal life line system
9. Resume normal operation of the AWS pumps on February **27.**

ICE HARBOR DAM1 - South Shore Fishway

1. Shut down the AWS pumps on the morning of **January 2**.
2. Dewater the fish ladder from **January 5 – January 29** for maintenance.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
4. **Inspect the collection channel by dewatering and direct observation.** 1
5. Perform maintenance on the AWS pumps.
6. Maintain adult PIT tag system as required. Coordinate with PSMFC.
7. Maintain half-duplex PIT (lamprey) antennas. Coordinate with University of Idaho.
8. Install Okum in leaking ladder joints.
9. Remove old horizontal life line system.
10. Resume normal operation of the AWS pumps on **January 30**.

LOWER MONUMENTAL DAM1 - North Shore Fishway

1. Shut down the AWS pumps on the morning of **January 1**.
2. Dewater the fish ladder from **January 2 - 16** for maintenance.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
4. Inspect the collection channel by dewatering.
5. Perform maintenance on the AWS pumps.
6. Resume normal operation of the AWS pumps on **January 16**.

LOWER MONUMENTAL DAM1 - South Shore Fishway

1. Dewater the fish ladder from **January 20 – February 27** for maintenance. Rehab SSE 1 and SSE 2.
2. Complete some grout replacement in channel.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
4. Inspect the collection channel by dewatering.

**LITTLE GOOSE DAM1**

1. Shut down the AWS pumps on the morning of **January 5, 2015**.
2. Dewater the fish ladder from **January 5 through February 26, 2015** for maintenance.
3. Close fish entrance weirs after fish ladder dewatered, **January 5, 2015**.
4. Dewater collection channel from **January 7 – February 26, 2015** for inspection andmaintenance.
5. Conduct Emergency discharge pipe repair contract work, Beginning **January 5, 2015** completion **February 26 2015.**
6. Replace the adult fish Channel Grating.
7. Replace Orifice pneumatic controls.
8. Conduct Adult fish way system control contract work, **January 5, 2015** completion **February 26 2015.**
9. Complete winter maintenance according to the Fish Passa**g**e Plan, Section 2.3.2.1. \*Note
10. Resume normal operation of the AWS pumps on **February 26, 2015.**

# LOWER GRANITE DAM1

1. Shut down the AWS pumps on the morning of **January 2, 2015**.

2. Dewater the fish ladder from **January 5, 2015 – February 10, 2015.**

3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.

4. Inspect the collection channel by dewatering.

5. Perform maintenance on the AWS pumps.

6. Complete AWS pump 3 lower guide bearing work.

6. Inspect the adult fallout fence and repair as needed.

7. Install adult trap limit torque for fish return channel regulating valve.

8. Routine maintenance of adult trap.

9. Resume normal operation of the AWS pumps no later than **February 10, 2015**.

Table 1. Methods used to inspect adult fishway collection channels during past winter maintenance periods, compared to the upcoming winter period.

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|  | **2009-10** | **20010-11** | **2011-12** | **2012-13** | **2013-2014** | **2014-2015** |
| **MCN WA Shore** | Camera/  Inspection | Diver/  Inspection | Camera /  Inspected | Camera/  Inspection | Diver/  Inspection | Camera/  Inspection |
| **MCN OR Shore** | Dive/ROV  Inspection | Camera/  Inspected | Camera/  Inspection | Diver/  Inspection | Camera/ Inspection | Camera/  Inspection |
| **IHR North Shore** | Diver inspected | Underwater  video | Dewatering |  | ROV | ROV |
| **IHR South Shore** | Underwater video | Dewatering | Dewatering |  | ROV | ROV |
| **LMO North Shore** | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering |
| **LMO South Shore** | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering |
| **LGS** | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering |
| **LWG** | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering | Dewatering |

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