Adult Fish Passage Facilities – 2012-2013 Winter Maintenance Schedule
U. S. Army Corps of Engineers
Walla Walla District

MCNARY DAM[1] - Washington Shore Fishway

1. Remove old ladder crane and install new ladder crane starting on **December 17**.
2. Dewater the WA fish ladder down to the tailwater level from **January 2 to January 23** for maintenance. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
3. Inspect diffuser gratings with video camera.
4. Perform annual maintenance on the WASCO small hydro project, bypass and auxiliary water supply system.
5. Maintain adult PIT tag system as required. Coordinate with PSMFC.
6. Maintain half-duplex PIT (lamprey) antennas. Coordinate with University of Idaho.
7. Resume normal operation of the ladder and small hydro/auxiliary water system by **January 24.**

MCNARY DAM[1] - Oregon Shore Fishway

1. Remove old ladder crane and install new ladder crane starting on **December 17**.
2. Shut down AWS Fish Pumps 1 and 3 at sundown on **January 27** and place ladder on orifice flow.
3. Use newly installed ladder crane to close Tainter valve and place exit stop logs.
4. Perform routine winter maintenance on AWS Fish Pumps 1 and 3.
5. Perform physical inspection of upper ladder and camera inspection of the watered sections of the lower ladder.
6. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
7. Maintain adult PIT tag system as required. Coordinate with PSMFC.
8. Resume normal ladder flow and pump operation by **February 28**.

ICE HARBOR DAM[1] - North Shore Fishway

1. Shut down the AWS pumps on **December 31**
2. Dewater the fish ladder from **January 1 – January 18** for maintenance diffuser 10.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
4. **Inspect the collection channel by visual inspection.** [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. Resume normal operation of the AWS pumps on **January 18**

ICE HARBOR DAM[1] - South Shore Fishway

1. Shut down the AWS pumps on the morning of January 21.
2. Dewater the fish ladder from **January 21 – February 22** for maintenance and lamprey improvement contractor work.
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.

[1] Methods used in the past for inspecting collection channels at all five dams are shown in Table 1.

4. **Inspect the collection channel by direct observation and underwater video.** [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. Resume normal operation of the AWS pumps on **February 22**.

LOWER MONUMENTAL DAM[1] - North Shore Fishway

1. Shut down the AWS pumps on the morning of **January 1**.
2. Dewater the fish ladder from **January 2 - 31** for maintenance and contractor installation of adult lamprey passage improvements.
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 27**.

LOWER MONUMENTAL DAM[1] - South Shore Fishway

1. Dewater the fish ladder from **February 1 – February 28** for maintenance and contractor installation of adult lamprey passage improvements.
2. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
3. Inspect the collection channel by dewatering.

LITTLE GOOSE DAM[1]

1. Shut down the AWS pumps on the morning of **January 2, 2013**.
2. Dewater the fish ladder from **January 2 through February 28, 2013** for maintenance.
3. Close fish entrance weirs after fish ladder dewatered, January 2, 2013.
4. Dewater collection channel from **January 7 – February 28, 2013** for inspection and maintenance.
5. Conduct Lamprey Improvement contract work on Fish Ladder.
6. Repair AWS Gear Box seals.
7. Replace the adult fish fallout fence
8. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
9. Resume normal operation of the AWS pumps on **February 28, 2013.**

LOWER GRANITE DAM[1]

1. Shut down the AWS pumps on the evening of **December 14, 2012**.
2. Dewater the fish ladder from **December 17, 2012 – February 28, 2013.**
3. Complete winter maintenance according to the Fish Passage Plan, Section 2.3.2.1.
4. Inspect the collection channel by dewatering.
5. Replace diffuser gratings 8 – 13.
6. Perform maintenance on the AWS pumps.
7. Rebuild, repaint the new picketed leads and replace the old leads.
8. Maintain the adult PIT-tag system as required (coordinate with PSMFC).
9. Inspect the adult fallout fence and repair as needed.
10. Replace brushes on the brush cleaning system at the public fish viewing window.

[1] Methods used in the past for inspecting collection channels at all five dams are shown in Table 1.

11. Install the new north powerhouse fishway entrance #3 bulkhead.
12. Resume normal operation of the AWS pumps no later than **February 28, 2013**.

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

	2006-07	2007-08	2008 -09	2009-10	2010-11	2011-12
MCN WA Shore		Dewatering	Dewatering		Diver / Inspected	Camera/ Inspection
MCN OR Shore	Dewatering	Video and dive	Dewatering	Diver / Inspected		Camera/ Inspection
IHR North Shore	Underwater video	Underwater video	Diver inspected	Underwater video	Dewatering	
IHR South Shore	Dewatering	Underwater video	Underwater video	Dewatering	Dewatering	
LMO North Shore	Dewatering	Dewatering	Dewatering	Dewatering	Dewatering	Dewatering
LMO South Shore	Dewatering	Dewatering	Dewatering	Dewatering	Dewatering	Dewatering
LGS	Underwater video then dewatering	Dewatering	Dewatering	Dewatering	Dewatering	Dewatering
LWG	Dewatering	Underwater video	Dewatering	Dewatering	Dewatering	Dewatering

[1] Methods used in the past for inspecting collection channels at all five dams are shown in Table 1.