*Draft 1*

**JOHN DAY DAM FISHWAYS’ ANNUAL MAINTENANCE SCHEDULE**

WINTER 2016/2017

## North Fish Ladder, upper -Dewater Dec. 1– Jan.10, ‘17

* Orifice flow starts at 2100 hrs on Nov.28, keep control weirs closed until 12/1
* Adult PIT tag antennas’ install Dec.2 through Jan.10 2017 - PDT
* PM count station and exit weirs - JDM & E
* Upgrade light fixtures and install emergency lights at the Counting Station.
* Adjust window/ crowder brush down as much as possible to eliminate lamprey strip. Align the brush to make better window contact (downstream edge)– JDM
* AWS pumps inspection & annual maintenance – JDM & E
* Continue inspecting & repairing the loose brackets at the “third” orifices – JDS
* Seal a couple of expansion joints as needed (Fisheries will monitor leaks) – JDS

## North Entrance - Dec. 5 or 6, ’16

* Inspect all gratings and fix deficiencies (unlikely) – JDS and JDF
* AWS pumps inspection & annual maintenance – JDM & E
* Entrance Computer System & sensors PM – JDE

**North AWS Channel - None this year (Anyone needs this done?)**

* Engineering inspection?

**SMF -Dewater Nov. 28, ’16**

* Blue PDS drain pipe’s leaking joint repair - JDM & E
* Complete SCADA PLC updates to have all alarms and functions working properly – JD Electrical and Engineering
* Replace charcoal filters for the next sampling season.
* PMs and cleanup including Screen Cleaner – JDM & E
* Seal leaking expansion joints (any left to do?)
* Clean/Paint separator’s porosity unit – JDS in September 2015?

## Juvenile Bypass System -Dewater 20 Jan, ’17

* Inspect CC conduit’s spalling & structural integrity – JD Eng & Structural
* Inspect all orifices/ hardware – JD Mech
* Search for all metal strips/brackets to assure their structural integrity- JD Fish
* PM tainter gate –JDM & JDE

**South Turbine Bulkhead Install No ROV this year Jan.12, ‘17**

* Inspect sill before and proper seal after bulkhead installation- Not necessary
* Inspect inside penstock? - JDM

## South Fish Ladder, upper - Dewater Jan 17, ’17 – Feb. 28, ‘17

* Orifice flow on January 14 at 1800 hrs, keep control weirs closed until 1/17, AM.
* Adult PIT tag antennas’ install Jan. 18 through Feb. 26, 2017- PDT
* PM count station equipment and exit sills (JDM,JDE)
* Fix leaking expansion joints – done in 2015
* CS Crowder is old/ rusting- needs JD Engineering and Maintenance inspection & plan to rebuild in the future?

## South Entrance, Collection channel - Dewater Jan. 19, ‘17

* **Repair erosion in the CC wall at 90 corner - JD Engineering /Contract**
* Inspect all gratings and fix deficiencies if found. A few grating segments on the south end of CC showed some wear and tear from the man lifts used there in 2013; JD Structural inspected/scoped in 2014- JD Structural
* Inspect new SE1 weir; check guides for wear & tear from stainless steel wheels (TD had bad/costly experience with theirs!) – JDStructural
* Overhaul of old/spare SE1 weir – JD Structural
* PM SE1, NE1/2 entrance weirs–JDM&E
* SE1 wall diffuser demobilization/closure – JD Engineerin**g** planning for the future?
* Inspect diffuser valves/sluice gates - JDM
* Two lowest overflow weirs need to be removed – JD Engineering/Maintenance?
* Demob and remove Wing Gates hardware from Collection Channel MU 9 – Engineering and JDM & S planning for the next year?

**South AWS conduit - Not dewatered in 2017 (?)**

* Inspect and remove accumulated mussel shells if necessary – JD Structural

Engineering to determine if shell accumulation impacts the AWS performance?

## South fish turbine intake trashrack install and water up End of Feb, ‘16

* Install trashrack– JDS

**JD Tailrace BRZ Avian Lines Grid –** Best maintenance time is March 2017

**26 lines, with six tower to tower are missing and need to be reinstalled before May 2017– (PDT planning to reinstall 18 lines this winter, remaining ones in the fall ’17.)**

## Guidelines:

* Adult winter maintenance (outage) season is Dec 1 through Feb 28.
* Juvenile winter maintenance (outage) season is Dec 1 through March 31.
* One adult ladder in regular service at all times when the second one is OOS for winter maintenance. Any overlapping outages (two ladders OOS at the same time)

are required to be coordinated in advance with FPOM.