

AGENDA

Fish Passage O&M Coordination (FPOM) Team
The Columbia Gorge Discovery Center
The Dalles, OR
October 9th, 2008 (0930-1600)

Call in number (888)422-7124
FPOM participant code: 173367
FPOM chair code: 773123

1. Review/Approve Agenda and September Minutes (Klatte)
2. Action Items
 - 2.1. [long time ago] BON PH1 Grizzlies. **ACTION:** Hausmann will investigate options for modifying the PH1 draft tube drains.
 - 2.2. [long time ago] Switchgate seals at BON and JDA. **ACTION:** JDA will move forward with the airbladder seals. NOAA worries about fish being able to access areas under the gate. BON will continue moving forward with reducing leakage around and under the gate. **STATUS:** *JDA has turned the task over to the Small Projects team at RDP. Mike Adams is the POC. Project engineer, Dave MacIntosh, will be engaged in the project as well.*
 - 2.3. [Jul 08] Water Quality ad-hoc committee. **ACTION:** Klatte will convene the meeting to discuss water quality testing protocols and needs. **STATUS:** *Latest TDA samples came back under the detectable limits. A third set will be completed in October.* **ACTION:** Cordie will draft a memo summarizing all sample results. FPOM will need to make a final decision by November, December at the latest.
 - 2.4. [Sep 08] BON FOG lifting beam status. **ACTION:** BON is still waiting for plans. Hausmann will provide an update at the October FPOM.
 - 2.5. [Sep 08] FPOM coordination. **ACTION:** Klatte will talk with Langeslay about coordination and coordination documentation.
 - 2.6. [Sep 08] BON B2CC repairs. The District will inspect and draft recommendations for repairs. **ACTION:** Schwartz will get the recommendations to Mackey and Klatte to send to FPOM.
 - 2.7. [Sep 08] JDA smolt monitoring. **ACTION:** Cordie will get his rationale in writing. Lorz will get the issue on the FPAC agenda for next week.
 - 2.8. [Sep 08] Pinniped task group. **ACTION:** Lorz to send Bettin some information about hazing sea lions.
 - 2.9. [Sep 08] TIES task group. **ACTION:** Klatte to set up a meeting to discuss the data in October.
 - 2.10. [Sep 08] WDFW fish viewing window light request. **ACTION:** Stephenson will inquire further as to the need for extra lights, then let Mackey know if further coordination is needed.
 - 2.11. [Sep 08] WDFW jack size memo. **ACTION:** Richards will send a copy of the memo to FPOM when he sends it to LeFleur.
 - 2.12. [Sep 08] MCN screen cleaning. **ACTION:** Dykstra to send a driveshaft repair schedule to Mackey for inclusion in the meeting minutes.
 - 2.13. [Sep 08] MCN fish pump outage. **ACTION:** FPOM would like to look at emergency back-up operation in the event a pump goes out.
 - 2.14. [Sep 08] NWW 3 September meeting. **ACTION:** Dykstra will compile the various notes taken by others and send them to FPOM.
 - 2.15. [Sep 03] SMP protocols. **ACTION:** Dykstra will mesh the FPP language so FPC and USACE protocols are more closely aligned.
 - 2.16. [Sep 08] FPOM coordination. **ACTION:** Mackey will add unit outages to the FPOM calendar. **STATUS:** *completed.*
 - 2.17. [Sep 08] BON FGE/VBS mods. **ACTION:** Schwartz will set up a FGE mods meeting for the week of 22 September. **STATUS:** *Schwartz set the meeting for 23 September.*
 - 2.18. [Sep 08] BON daylight hours. The Table BON-5 will be updated to reflect the new daylight savings time date. **ACTION:** Mackey will update the daylight spill table to reflect the new

daylight savings time. **STATUS:** *The Table BON-5 appears to incorporate the dates for daylight savings time. The Oct 30-Nov 30 encompasses the old and new DST dates.*

- 2.19. [Sep 08] AFF protocols. **ACTION:** Mackey will send the 14 August AFF meeting minutes. **STATUS:** *Completed on 11 September.*
- 2.20. [Sep 08] AFF protocols meeting. CRITFC, FPOM and BON Project Fisheries will meet to discuss how to move forward with the picket lead protocols. **ACTION:** Mackey to set up a meeting room for Monday. **STATUS:** *The group met at CRITFC on 15 September at 1500.*
- 2.21. [Sep 08] AFF picket lead mods. **ACTION:** Mackey to check with Langeslay to see that the AFF is on the FFDRWG agenda. **STATUS:** *The topic was discussed at the 17 September FFDRWG.*
- 2.22. [Sep 08] JDAN extended outage request. **ACTION:** Cordie to send the analysis to Mackey to include in the minutes. **STATUS:** *completed.*
- 2.23. [Sep 08] Fishway velocity task group. **ACTION:** Mackey to set up a conference line and send attachment to task group members. **STATUS:** *completed. Conference call occurred on 29 September.*
- 2.24. [Sep 08] SMP protocols. **ACTION:** Mackey to reserve a call line for 29 September at 1300. **STATUS:** *completed.*
- 2.25. [Sep 08] SMP protocols. **ACTION:** McCann will put the ppt. on the website and send the location to Mackey. **STATUS:** *completed*
- 2.26. [Jul 08] AFF trapping protocols when water temperatures reach 70°F. **ACTION:** CRITFC will look PIT tag data for travel time from the AFF to BO3. Lorz will provide an update at the October FPOM meeting. **Discussed under Agenda Item #4**
- 2.27. [Sep 08] Kaplan Blade Study. **ACTION:** Fredricks will review the plan and provide a summary to FPOM in October. **Discussed under Agenda Item #7**
- 2.28. [Sep 08] Kaplan Blade Study. **ACTION:** HDC (Rod Wittinger) will be invited to discuss with FPOM in October. **Discussed under Agenda Item #7**
- 2.29. [Jul 08] McNary dewatering screen monitoring. **ACTION:** Swenson will put together a memo detailing the recommendation. **STATUS:** *to be discussed under Agenda Item #10.*
- 2.30. [Jul 08] LGS back flushing of orifices. **ACTION:** Hevlin will meet with NWW to discuss options. He will present findings to FPOM in September. **STATUS:** *Agenda Item #11.*
- 2.31. [Sep 08] BON split flows. **ACTION:** Mackey will write up the change form to include adults and jacks in FPP BON 2.1.2. **STATUS:** *completed on 23 September. Discussed under 15.8.*
- 2.32. [Sep 08] BON split flows. **ACTION:** Mackey to draft the change form to include a preference for operating at the mid or upper 1% range whenever possible. **STATUS:** *Completed on 25 September. Discussed under 15.9.*
- 2.33. [Sep 08] BON split flows unit priority. A new row should be added to Table BON-11 to clearly indicate the unit priority for each powerhouse. **ACTION:** Mackey to add the row and draft the change form. **STATUS:** *Completed on 25 September. Discussed under 15.10.*
- 2.34. [Sep 08] BON PH1 fish screens. The fish screen install date will be changed to “as soon as possible, after spill ends”. **ACTION:** Mackey to draft the change form to modify BON 1.2.1.1, BON 2.4.1.2.f, BON 2.5.3.f, and BON 2.5.3.f.1. **STATUS:** *Completed on 25 September. Discussed under 15.11.*

3. Updates. (Klatte/Dykstra)

- 3.1. BON Fish unit outage on 1 Oct.
- 3.2. NWP winter maintenance schedules. (attached to the agenda)
- 3.3. NWW winter maintenance schedules.
- 3.4. Galvanized grates- water sample update.
- 3.5. FFU fishway fish capacity analysis completed. Would the AFF task group like to have a special meeting for further discussion?

4. Joint Technical Memo discussion. (Dykstra/Klatte)

5. FPC's coordination concerns letter. (Dykstra/Klatte)

6. **CRITFC's review of PIT tag data for travel time from the AFF to BO3.** (Lorz)
7. **BPA transmission line outages.** Affects TDA on 6 November. Schedule is attached to the agenda.
8. **JDA TSW/ outage request.** (Wertheimer)
9. **Kaplan study update.** (Fredricks/Wittinger)
10. **SMP condition metrics update.** (Dykstra/McCann)
11. **WDFW update of the jack size.** (Richards)
12. **MCN dewatering screen monitoring.** (Swenson)
13. **LGS orifice backflushing.** (Hevlin)
14. **Unit specific details for FPP inclusion.** (Bettin)
15. **FPOM coordination forms.** (Fredricks)
16. **Task Group updates**
 - 16.1. Fishway velocity (*Chair-Cordie, Fredricks, Lorz, Meyer, Mackey*). Conference call the week of 14 October.
 - 16.2. Lamprey (*Chair-Cordie, Clugston, Dykstra, Lorz, Mackey, Meyer, Moody, Moser, Peery, Rerecich, Zyndol*)
 - 16.3. PH2 VBSs (*Chair- Hausmann, Benner, Fredricks, Klatte, Lorz, Mackey, Meyer, Wills*).
 - 16.4. Pinnipeds (*Chair-Stansell, Bettin, Benner, Brown, Fredricks, Hausmann, Kruger, Stephenson, Richards, Wills*)
 - 16.5. TIES (*Chair-Klatte, Bettin, Benner, Fredricks, Kruger, Mackey, Schwartz, Wills*)
 - 16.6. Water Quality (*Chair- Klatte*)
 - 16.7. SMP condition metrics. Meeting immediately after FPOM.
17. **FPP proposed changes.**
 - 17.1. BON sturgeon language. (incorporates changes from May 2008 mtg)
 - 17.2. BON 2.4.2.2.n.1 relocation.
 - 17.3. TDA and JDA velocity measurement language.
 - 17.4. Appendix G- BON protocols for holding lamprey.
 - 17.5. BON shad passage mode criteria.
 - 17.6. Appendix A- increasing the 72 hour heat run time.
 - 17.7. Appendix G- BON valve numbering correction.
 - 17.8. BON 2.1.2- include jacks in salmonids counts for splitting flows.
 - 17.9. BON 2.1.2- include preference for mid to upper 1% turbine operations during split flows.
 - 17.10. Table BON-11- include split flow unit priority row to the table.
 - 17.11. BON 1.2.1.1, BON 2.4.1.2.f, BON 2.5.3.f, BON 2.5.3.f.1- change date of PH1 fish screen installation.
18. **Other**
19. **Next Meeting-**
20. **SMP condition metrics meeting.**

MEMORANDUM FOR THE RECORD

SUBJECT: BONNEVILLE DAM WINTER FISHWAY MAINTENANCE 2008/2009.

1. This is a working document detailing Bonneville Dam winter fishway maintenance, 2008/2009. Reviewers can expect changes as we approach the winter maintenance season.

2. ADULT FISHWAYS

2.1. Fish Unit Outages

- 2.1.1. Fish Unit 1: **01 Dec 08 – 20 Jan 09**, annual overhaul.
- 2.1.2. Fish Unit 2: **21 Jan 09 – 28 Feb 09**, annual overhaul.

2.2. Bradford Island Ladder (A&B-Branches 01 Dec 08 – 09 Jan 09)

- 2.2.1. Go to orifice flow on **01 Dec 08**
- 2.2.2. Dewater to tailwater on **03 Dec 08**
- 2.2.3. Dewater diffuser pools on **04 Dec 08**.
- 2.2.4. Inspect Bradford Island exit trashrack.
- 2.2.5. Maintain the LPS.
- 2.2.6. Adjust the brush cleaner so it cleans the crowder.
- 2.2.7. Repair metal hanging off upstream edge of crowder.
- 2.2.8. Paint border of crowder white.
- 2.2.9. Remove algae from window and crowder.
- 2.2.10. Provide additional strapping for PIT tag equipment, as necessary. (Electricians)
- 2.2.11. Removal of weeds around the PIT tag room and transceiver enclosures.
- 2.2.12. Inspect PH1 PCC **15 Jan 09**. (ROV inspection)
- 2.2.13. Install SLEDS or acoustic deterrents by **01 Feb 08**
- 2.2.14. Calibrate B-Branch water elevation sensors.
- 2.2.15. Dredge BI fish exit. 2009/2010 (contractor)

A-Branch specific items

- 2.2.16. Install south end bulkhead
- 2.2.17. Inspect and repair FV1-1. (Include a NWP structural engineer).
- 2.2.18. Calibrate CC, TW, and entrance gate transducers.
- 2.2.19. Repair FG2-22A and FG2-19.
- 2.2.20. Repair FG3-5,(mechanics/electricians)
- 2.2.21. Develop plan for removal of FV3-8.
- 2.2.22. Engineer plan for filling FG2-2 and FG2-3.
- 2.2.23. Remove wooden bulkhead at south end of PCC. 2009-2010

2.3. Adult Fish Facility (29 Dec 08-1 Mar 09)

- 2.3.1. Go to orifice flow on **29 Dec 08**
- 2.3.2. Chase fish to the ladder on **07 Jan 09**
- 2.3.3. Dewater exit section on **07 Jan 09**
- 2.3.4. Dewater entrance on **12 Jan 09**
- 2.3.5. Routine maintenance.
- 2.3.6. PM bridge crane.
- 2.3.7. Repair broken gate cranks and pulleys.
- 2.3.8. Inspect and repair weir doors.
- 2.3.9. Inspect floor drain.
- 2.3.10. Pressure wash the lab and handrails. (Painters)
- 2.3.11. Replace silicone around the anesthetic tank bottom. (Painters)
- 2.3.12. Repair/Replace netting over flumes. (Project Fisheries)

2.3.13. Clean fish viewing window.

2.4. Washington Shore Ladder (10 Jan 09- 28 Feb 09)

- 2.4.1. Install stab plates when one fish unit goes OOS.
- 2.4.2. Pull Cascades Is. picket leads on **09 Jan 09**.
- 2.4.3. Install UMT bulkhead on **north** end on **09 Jan 09**
- 2.4.4. Go to orifice flow on **10 Jan 09**.
- 2.4.5. Drain ladder to tailwater on **12 Jan 09**.
- 2.4.6. Clean staff gauges.
- 2.4.7. Calibrate fishway entrance gates at SA-24 board.
- 2.4.8. Replace/repair PIT tag equipment. (PSMFC/NOAA FISH)
- 2.4.9. Paint border of crowder white.
- 2.4.10. Remove algae from window and crowder.
- 2.4.11. Inspect picket leads for breaks or gaps. Repair as necessary.
- 2.4.12. Finish installing staff gauges at north and south monoliths.
- 2.4.13. Provide additional strapping for PIT tag equipment, as necessary. (Electricians)
- 2.4.14. Install SLEDS or acoustic deterrents by **28 Feb 09**
- 2.4.15. Inspect PH2 PCC **15 Jan 09**. (ROV inspection)

2.5. Cascades Island Ladder and UMT (17 Jan 09 – 28 Feb 09)

- 2.5.1. Pull picket leads on **09 Jan 09**.
- 2.5.2. Go to orifice flow on **17 Jan 09**.
- 2.5.3. Drain ladder to tailwater on **20 Jan 09**.
- 2.5.4. Dewater diffuser pools on **21 Jan 09**.
- 2.5.5. Drain ladder completely **22 Jan 09**.
- 2.5.6. Repair FG6-10.
- 2.5.7. Provide additional strapping for PIT tag equipment, as necessary. (Electricians)
- 2.5.8. Inspect picket leads for breaks or gaps. Repair as necessary.
- 2.5.9. Installation of lamprey rocks. (contractor)
- 2.5.10. Installation of new LPS (NOAA Fisheries)
- 2.5.11. Pull bulkheads, including north UMT, and return to service by **28 Feb 09**.
- 2.5.12. Install SLEDS or acoustic deterrents by **28 Feb 09**

3. JUVENILE FISHWAYS

3.1. DSM 1/ ITS

- 3.1.1. Pull STSs on **14 Oct 08**.
- 3.1.2. Walk the channel on **14 Oct 08**.
- 3.1.3. Install bulkheads and turn ITS over to contractors by **01 November**.

3.2. DSM 2 (15 Dec 08 – 19 Feb 09)

- 3.2.1. Pull STSs **15-16 Dec 08**
- 3.2.2. Turn off orifice lights on **13 Dec 08**
- 3.2.3. Dewater DSM on **18 Dec 08**
- 3.2.4. Inspect two mile pipe on **29 Dec 08**
- 3.2.5. PM equipment.
- 3.2.6. Inspect/Repair screen cleaners. Needs to be operable.
- 3.2.7. Install STSs starting **23 Feb 09**
- 3.2.8. Water up when STSs are installed (not later than **28 Feb 09**)

3.3. Juvenile Monitoring Facility (31 October 08 – 19 February 09)

- 3.3.1. Blow out hydro cannon lines on **01 Sep 08** (Operators)
- 3.3.2. Drain and inspect sample flume on **31 Oct 08**. (Project Fisheries)
- 3.3.3. Inspect and PM equipment- air pressure gauges and oil/water traps.
- 3.3.4. Inspect flume joints. Re-caulk as needed.
- 3.3.5. Inspect and winterize 2 and 3 way rotating gates.

- 3.3.6. Replace charcoal filters.
- 3.3.7. Inspect/Repair lifting cables for the fish lifts. (Riggers)
- 3.3.8. Install sump pump (Pump is ready to be installed in the basement.)
- 3.3.9. Possibly add two receptacles to the basement work area.
- 3.3.10. Inspect switchgate PLCs for proper calibration and settings. (lower one should switch based on TW elevation)
- 3.3.11. At the PIT tag building, remove deceased mice and possibly set traps for future occupants.
- 3.3.12. New seals on upper switchgate.
- 3.3.13. Seal off drain pipe to western wildlife pond.

3.4. B2 Corner Collector (02 Sep 08 – 01 Apr 09)

- 3.4.1. Remove mice from the pull box between the PIT tag building and the Electrical building and possibly set traps for future occupants.
- 3.4.2. Enter the channel to inspect seals around antennae and skid plates.

4. SPILLWAY

- 4.1. Test all gates.

KEY TO COLORS-

Black- normal/routine dewatering work

Orange- work to be done by contractors or researchers.

Blue- work to be done by Fisheries

Pink- highlights special requests or non-routine work items.

Gray- items to keep on the radar but postponed for a future in-water work season.

Draft

THE DALLES DAM FISHWAY DEWATER SCHEDULE

WINTER '08/'09

East Fish Ladder

-Dewater Dec. 2, '08 – Jan. 8, '09

- *Repaint 1' mark on weir 158-9 (TJF)*
- *PM weirs 154-9 and CS equip (TDM,TDE)*
- *Clean inside crowder box (TDE)*
- *Repair FB staff gauge (TDS) reuse fish lock staff gage*
- *Clean staff gages and pickets (TJF)*
- *Lamprey ramp at 180 – d/s count station*
- *Repair Expansion joints (Eng)*
- *Re-floor count station (Eng)*
- *Repaint CS (TDM)*
- *Full range op tests all weirs (TJF)*
- *Remove CS floor tile (TDM)*

East, West and South Ent, Junct Pool, Collection and Trans Chan

-Dewater Week of Dec. 8, '08

- *Install replacement diffuser grating – Eng decide replacement panels. (TDS)*
- *PM entrance weirs (TDM, TDE)*
- *Add extension stiffeners on east weirs (Eng, TDS)*
- *Full range op test (TJF)*

North Fish Ladder ***'09***

- Dewater Jan. 13, '09 – Feb. 28,

- *Assemble/install new dewater pump (TDM, TDS)*
- *PM CS equipment and PUD radial (PUD provide labor)*
- *Remove brush from fish ladder walls (TJF)*
- *Clean inside of crowder box (TDE)*
- *Purchase and replace upper diffuser grating – (Eng)*
- *Full range op test (TJF)*
- *Remove CS floor tile (TDM)*

North Entrance

- Dewater Jan. 14, '09

- *PM weir N1 (TDM, TDS)*
- *Full range op test (TJF)*

ROV inspect PUD intake trashrack

-ROV

Feb 18, '09

2008 Transmission Outages that have potential to limit generation

Equipment Outage	Date(s)	Hours	Impacted Generation	Notes
October-08 (45 day outage planning process completed)				
North Bonneville 230kV bus split	9/3/08-10/3/08	Continuous	Bonneville PH lines #3 & #4 limited to 330 MW	Installing new bus sectionalizing breaker on North Bonneville 230kV main bus
Chief Joseph PH-Chief Joseph 4 230kV line	9/29/08-10/10/08	Continuous	Forces units 13-16 O/S	COE work on Transformer 4
North Bonneville 230kV east main bus	10/1/2008	0900-1500	Forces out PH lines 3 (units F1 & 11-14) & 4 (units F2 & 15-18)	Connecting east bus to new bus sectionalizing breaker
Grand Coulee-Chief Joseph 3 500kV line	10/1/08-10/8/08	Continuous	Chief Joseph total generation limited to 1700 MW per DSO 340	Spacer damper replacement
Lower Monumental-Hanford 1 500kV line	10/16/2008	0800-1600	Combined generation at Lower Monumental, Little Goose, and Lower Granite limited to 1700 MW per DSO 314	Service of Hanford PCBs 4096 and 4097
McNary 500/230kV transformer 1	10/20/08-10/24/08	Continuous	McNary generation limited to 700 MW per DSO 316	Transformer tap changer service
Ice Harbor-Franklin 3 115kV line	10/21/08-10/23/08	0800-1500	Forces out units 5 & 6	Relay maintenance
Lower Monumental PH-Lower Monumental 1 500kV line	10/25/08-11/11/08	Continuous	Forces out units 1-6	COE replacing T1 disconnect
Ice Harbor-Franklin 2 115kV line	10/28/08-10/30/08	0800-1500	Forces out units 3 & 4	Relay maintenance
November-08 (45 day outage planning process completed)				
Lower Monumental PH-Lower Monumental 1 500kV line	10/25/08-11/11/08	Continuous	Forces out units 1-6	COE replacing T1 disconnect
Grand Coulee 230kV main bus section 2A	11/3/08-11/4/08	Continuous	Forces units 6-9 O/S	USBR repairing MOD 6085
Big Eddy 115kV main bus section 1	11/6/2008	0600-1800	Forces The Dalles units F1-2 & 1-4 O/S	Service on main bus disconnects B-1052 & B-1056 and diagnostic service on bus section 1 potential transformers
Chief Joseph 500/230kV transformer 3	11/12/2008	0800-1600	Chief Joseph 230 generation limited to 900 MW per DSO 340	Change out A-phase bank with repaired phase
Big Eddy 230/115kV transformer 1	11/17/08-11/21/08	Continuous	The Dalles 115kV generation (units 1-4 & F1-2) limited to 367 MW per DSO 327	Tap changer service

Outages that are 1 hour or less are not shown
RED are changes since last update

OFFICIAL USE ONLY

May be exempt from public release under the Freedom of Information Act (5 U.S.C. 552), exemption number and category:
Exemption 2 - Circumvention of Statute
BPA review required before public release.
Name/Org: Mike Viles - BPA Date: 9/26/08

mrv 9/26/08

FPP Change Forms

Change Request Number:

Date: April 16, 2008

Proposed by: Bonneville Project

Location of Change- BON 5.4.6-5.4.7 and BON 6.5.1-6.5.2 (sections re-numbered as required)

Proposed Change:

5.4.6. *From 1 December through 30 April, non-priority turbine units will not be voluntarily scheduled for extended outages. Priority units are 1, 10, 11, and 18.*

5.4.7. *From 1 December through 30 April, turbines which have been idle/out of service for more than 12 hours will be started by slow rolling the unit after manually tipping turbine blades from flat to steep back to flat.*

After including the two sections above as 6.5.1 and 6.5.2-

The current 6.5.2 will be re-numbered to 6.5.4. Add “*bottom tail logs should be placed first.*”

The current 6.5.3 will be re-numbered to 6.5.5. Add “*It is recommended adjacent units be operated to flush fish prior to placing tail logs in the unit to be OOS. It is also recommended that units located adjacent to OOS units not be voluntarily taken out of service until the adjacent units return to service.*”

Reason for Change: To better protect sturgeon in the draft tube and turbine environment.

Comments from others: FPOM doesn’t want priority units OOS during fish passage season.

Change Request Number:

Date: 6/4/2008

Proposed by: Project Fisheries

Location of Change: BON-18 2.4.2.2.n.1

Proposed Change: 2.4.2.2.n.1 says “coordinate gatewell cleaning with smolt monitoring personnel operating the downstream juvenile sampling facilities”. It should be moved to 2.4.2.2.m.3, which is the section on what to do when cleaning gatewells.

Reason for Change:

2.4.2.2.n.1 is in the wrong location.

Change Request Number:

Date: 5/27/2008

Proposed by: The Dalles John Day Project

Location of Change- TDA 2.5.1.2.4 and JDA 2.5.1.2.a.4

Proposed Change: Omit from TD- ‘Water velocities will be measured at one location directly and monitored during fishway inspections to verify channels are operating within velocity criteria’.

Add to TD and JD – ‘Water velocities will be monitored weekly during as part of the fishway inspection program. Project biologist will determine method. Results will be provided in weekly status report. (JD did not have the same wording as TD)

Reason for Change: Discussion and resolution determined through FPOM velocity task group

Change Request Number:

Date: 7/22/2008

Proposed by: Jon Rerecich

Location of Change- Appendix G BON AFF trapping protocols 2.3.

Anytime lamprey are held overnight in the AFF, researchers will notify Project Fisheries and the Control Room.

Proposed Change: Restrict holding times for lamprey to 48 hours.

Lamprey may be held up to 48 hours in the AFF. Researchers will notify Project Fisheries and the Control Room whenever lamprey are held.

Reason for Change: To minimize holding lamprey too long. In 2008 there was a mortality due to holding over a weekend.

Change Request Number:

Date:8/6/08

Proposed by: BON Project Fisheries

Location of Change: BON Section 2.5.1.2.a

Maintain the water depth over fish ladder weirs at 1' +/- 0.1' during non-shad passage season (August 16 through May 14) and 1.3' +/- 0.1' during the shad passage season (May 15 through August 15).

Proposed Change: Remove the dates and adjust to shad passage mode based on the numbers of shad passing.

Maintain the water depth over fish ladder weirs at 1' +/- 0.1' during non-shad passage season (<5,000 shad per day) and 1.3' +/- 0.1' during the shad passage season (> or = to 5,000 shad per day).

Reason for Change: It makes more sense to base shad passage mode on shad numbers passing. It also makes BON criteria consistent with TDA shad criteria.

Change Request Number:

Date: 091108

Proposed by: Bonneville Project Fisheries

Location of Change Appendix G section 1.12

Proposed Change: App. G section 1.12 currently reads: "Users will be permitted to operate valves 10 and 11" but it should read "Users will be permitted to operate valves 9 and 10"

Reason for Change: Corrects erroneous valve info.

Change Request Number:

Date: 9/23/2008

Proposed by: FPOM

Location of Change: 2008 FPP BON-11 section 2.1.2

Proposed Change: include jacks in counts for splitting flows.

"When adult *and* jack salmonid counts equal or exceed..."

Reason for Change: Jacks should be included in the fish counts since they are salmonids passing the dam.

Comments from others: All agencies at FPOM agreed to the change.

Record of Final Action: This change will be included in the 2009 FPP.

Change Request Number:

Date: 9/11/08

Proposed by: FPOM

Location of Change: BON 2.1.2

Proposed Change: Include, at the end of the paragraph, *“Turbine units should be operated at the mid or upper 1% range whenever possible, during the split flows operation.”*

Reason for Change: Without this guidance, the Control Room will allow GDACS to run the units, which may result in some units operating at the lower end of the 1% band.

Change Request Number:

Date: 9/11/2008

Proposed by: FPOM

Location of Change: Table BON-11

Proposed Change: Include a row for unit priority, by powerhouse, when splitting flows.

Table BON-11. Turbine unit operating priorities, Bonneville Powerhouses One and Two.

PERIOD	PRIORITY
Year-round; adult fish ladders are in service	11,18,15,12,17,14,13,16, 3,1,4,6,2,5,7,10,9,8
First Powerhouse Adult Fish Ladder out of service	11,18,15,12,17,14,13,16, 3,1,4,6,2,5,7,10,9,8
Second Powerhouse Adult Fish Ladder out of service	3,1,4,6,2,5,7,10,9,8 11,18,15,12,17,14,13,16
<i>Priority for each powerhouse when flows are split due to fish numbers.</i>	<i>PH1- 3,1,4,6,2,5,7,10,9,8</i> <i>PH2- 11,18,15,12,17,14,13,16</i>

Reason for Change: This clearly lays out the priority for each powerhouse when flows are split.

Change Request Number:

Date: 9/11/08

Proposed by: FPOM

Location of Change: BON 1.2.1.1 , BON 2.4.1.2.f, BON 2.5.3.f, and BON 2.5.3.f.1

Proposed Change: To include language that states the PH1 fish screens would be installed as soon as possible, after spill ends.

BON 1.2.1.1- “The downstream migration channel (DSM) is also used for adult passage from September 15 through December 15.” **to**

BON 1.2.1.1- “The downstream migration channel (DSM) is also used for adult passage from *early September, as soon as fish screens are installed,* through December 15.”

BON 2.4.1.2.f- “All gatewell orifices should be opened and DSM1 ran south from September 15 through December 15.” **to**

BON 2.4.1.2.f- “All gatewell orifices should be opened and the DSM1 ran south from *early September, as soon as fish screens are installed,* through December 15.”


BON 2.5.3.f- “STSS and VBSs will be installed in two PH1 priority units on September 15.” **to**
BON 2.5.3.f - “STSS and VBSs will be installed in two PH1 priority units *as soon as possible*
after spill ends.”

BON 2.5.3.f.1- “The Powerhouse One DSM will be watered up on September 15, with water
flow to the south.” **to**



BON 2.5.3.f.1- The Powerhouse One DSM will be watered up *as soon as screens are installed*,
with water flow to the south.”

Reason for Change: This change provides for getting the fish screens installed and providing
adult fallback protection earlier in September. This will also provide protection for when flows
are split prior to September 15th.


September 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 B2CC closed Labor Day	2 FPAC	3 TMT	4	5	6
7	8	9 FPAC Happy birthday	10 TMT	11 FPOM Meeting- NOAA	12	13 Happy Birthday
14	15 Tribal Lamprey Plan review meeting. BON PH1 STS install	16 FPAC	17 TMT NWP FFDRWG	18 SCT	19	20 Happy Birthday
21	22	23 FPAC AFEP pre-proposal comments due	24 TMT Predation Workshop at Oregon Zoo	25	26	27 Happy Birthday
28	29 BON PH2 Unit priority change SMF conf call Vel. TG conf call	30 FPAC				


October 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 TDA PUD bridge demo	2	3	4
5	6 TDA U20 dewater- TDA-E AWS OOS for two hours. JDA TSW FFDRWG	7	8 BON FGE FFDRWG	9 FPOM Meeting NWP dewatering schedules due. Happy Birthday	10	11
12	13	14 BON PH1 STS removal. ITS bulkheading begins. BON BGS pre-dive	15 BON BI transformer pad work (1800)	16 Happy Birthday	17	18
19 Happy Birthday	20	21	22 AFEP final proposals sent.	23	24	25
26	27	28	29	30 NWP FFDRWG	31 Normal Adult Fish Counting Ends Most Dams BON JMF to bypass	

November 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30						1 BON ITS mods begin
2	3	4	5	6	7	8
9	10	11 Veteran's Day	12	13 FPOM Meeting NWW dewatering schedules due. Input for draft FPP due.	14 AFEP proposal review- NWW	15
16	17	18 Happy Birthday	19	20	21	22
23	24 Happy Birthday	25	26	27 Happy Thanksgiving	28 Draft FPP Due in NWD	29

December 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 AFEP Research review- NWP BON BI to orifice flow BON F1 OOS	2 AFEP Research review- NWP TDA-E dewater	3 AFEP Research review- NWP JDA-N dewater BON BI dewater	4 AFEP Research review- NWP JDA-N ent dewater	5	6
7	8	9	10	11	12	13
14	15 Adult fish counting ends LWG. BON STS removal	16 BON STS removal	17 JDA SMF dewater	18 BON DSM2 dewater	19	20
21 Happy Hanukkah	22	23	24	25 Merry Christmas	26 Happy Kwanzaa	27
28	29 BON AFF orifice flow BON two-mile pipe	30	31	