

MEMORANDUM FOR THE RECORD

Subject: DRAFT Minutes for the 11 September 2008 FPOM meeting.

The meeting was held in the Bonneville Dam Auditorium. In attendance:

Last	First	Agency	Office	Email
Bailey	John	USACE	509-527-7123	John.c.bailey@usace.army.mil
Benner	David	FPC	503-230-7564	dbenner@fpc.org
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Dowdy	Annie	ODFW		
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Fredricks	Gary	NOAA	503-231-6855	Gary.fredricks@noaa.gov
Hausmann	Ben	USACE	541-374-4598	Ben.j.hausmann@usace.army.mil
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Lorz	Tom	CRITFC	503-238-3574	lorz@critfc.org
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McCann	Jerry	FPC	503-230-4291	jmccann@fpc.org
Mensik	Fred	WDFW	509-843-3084	
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Rerecich	Jon	USACE	541-374-7984	Jonathan.g.rerecich@usace.army.mil
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Tudor	Rosanna	WDFW	541-922-3630	
Wills	Dave	USFWS	360-604-2500	David_wills@fws.gov

Annie Dowdy, Brad Eby, Ben Hausmann, and Jon Rerecich called in.

1. Klatte introduced Ian Chane as the new Willamette River coordinator for the Portland District Operations Division. Review/Approve Agenda and August Minutes.
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] 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.

- 2.4. [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. **STATUS:** *An interim memo has been included in the minutes.*
- 2.5. [Sep 08] Kaplan Blade Study. **ACTION:** Fredricks will review the plan and provide a summary to FPOM in October.
- 2.6. [Sep 08] Kaplan Blade Study. **ACTION:** HDC (Rod Wittinger) will be invited to discuss with FPOM in October.
- 2.7. [Sep 08] BON FOG lifting beam status. **ACTION:** BON is still waiting for plans. Hausmann will provide an update at the October FPOM.
- 2.8. [Aug 08] JDA MU1 outage. **ACTION:** Cordie will need to look at the spill and see if attraction flow might be provided to reduce passage delay. If the Project will swap MU1 with MU3, then this won't be an issue. **STATUS:** *The Project switched MU1 with MU3. FPOM expressed appreciation and thanked Cordie for facilitating the switching of units 1 and 3.*
- 2.9. [Aug 08] Non Native fish issues. **ACTION:** Mackey to send Wills the Predation Workshop announcement. **STATUS:** *completed on 20 August.*
- 2.10. [Aug 08] Bradford Island transformer pad. **ACTION:** Mackey and Schwartz will get more information as to the critical nature of getting the pad done now as opposed to November or winter maintenance season. **STATUS:** *Agenda Item #7.*
- 2.11. [Aug 08] FPC descaling criteria. **ACTION:** McCann will provide a schedule for the development of the criteria, to FPOM by 11 September. Have criteria drafted by January 2009. **STATUS:** *to be discussed under Agenda Item #12.*
- 2.12. [Aug 08] SMP task group. **ACTION:** Dykstra will send out an invitation for the task group to meet prior to Hurson leaving. **STATUS:** *Meeting held on 3 September. Agenda Item #12.*
- 2.13. [Jul 08] McNary dewatering screen monitoring. **ACTION:** Swenson will put together a memo detailing the recommendation. **STATUS:** *to be discussed under Agenda Item #14.*
- 2.14. [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 # 17.*
- 2.15. [Sep 08] FPOM coordination. **ACTION:** Klatte will talk with Langeslay about coordination and coordination documentation.
- 2.16. [Sep 08] FPOM coordination. **ACTION:** Mackey will add unit outages to the FPOM calendar.
- 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 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.*
- 2.19. [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.*
- 2.20. [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.*
- 2.21. [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.*
- 2.22. [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.*
- 2.23. [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.
- 2.24. [Sep 08] AFF protocols. **ACTION:** Mackey will send the 14 August AFF meeting minutes. **STATUS:** *Completed on 11 September.*

- 2.25. [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.*
- 2.26. [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.*
- 2.27. [Sep 08] JDAN extended outage request. **ACTION:** Cordie to send the analysis to Mackey to include in the minutes. **STATUS:** *completed.*
- 2.28. [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.
- 2.29. [Sep 08] Fishway velocity task group. **ACTION:** Mackey to set up a conference line and send attachment to task group members.
- 2.30. [Sep 08] Pinniped task group. **ACTION:** Lorz to send Bettin some information about hazing sea lions.
- 2.31. [Sep 08] TIES task group. **ACTION:** Klatte to set up a meeting to discuss the data in October.
- 2.32. [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.
- 2.33. [Sep 08] WDFW jack size memo. **ACTION:** Richards will send a copy of the memo to FPOM when he sends it to LeFleur.
- 2.34. [Sep 08] MCN screen cleaning. **ACTION:** Dykstra to send a driveshaft repair schedule to Mackey for inclusion in the meeting minutes.
- 2.35. [Sep 08] MCN fish pump outage. **ACTION:** FPOM would like to look at emergency back-up operation in the event a pump goes out.
- 2.36. [Sep 08] NWW 3 September meeting. **ACTION:** Dykstra will compile the various notes taken by others and send them to FPOM.
- 2.37. [Sep 03] SMP protocols. **ACTION:** Dykstra will mesh the FPP language so FPC and USACE protocols are more closely aligned.
- 2.38. [Sep 08] SMP protocols. **ACTION:** Mackey to reserve a call line for 29 September at 1300. **STATUS:** *completed.*
- 2.39. [Sep 08] SMP protocols. **ACTION:** McCann will put the ppt. on the website and send the location to Mackey. **STATUS:** *completed.*

3. Updates.

- 3.1. BON Main Dam bay 15. The broken hoist has been moved to Bay 17. Bay 18 is operable and may adjust for daylight adult attraction flows. There is a 32 week lead time for the gear box needed to repair the broken hoist. Since there is no money to purchase the gear box, it is currently on the UFR list, Bay 17 will be in a dogged position for the 2009 spill season.
- 3.2. BON U6 orifice position. BON operators found the orifice open, no one knows how or why it opened. Fisheries salvaged three juveniles and a few sculpin from the DSM channel.
- 3.3. Water temps/sampling. Temps have reached 69.5°F. All facilities are back to FPP criteria sampling. Rerecich did comment that temps are on the rise. FPOM said the PSMFC temperature emails were helpful, but they could probably stop sending them now that temps are low again.
- 3.4. TDA PUD/ fishway outage on 6 September. The TDA north fishway was out of service for four hours on 6 September. Cordie explained that Project Fisheries was unaware of the extent of the outage. Due to further miscommunication, the outage, which should have been only two hours, was unnecessarily extended to four hours. It had appeared that the outage had been coordinated with someone but no one at FPOM could remember specifics. Fredricks said the coordination should have gone through Langeslay's or Klatte's office. **ACTION:** Klatte will talk with Langeslay about coordination and coordination documentation.
- 3.4.1. Cordie provided notification of another PUD outage request. On 24 September, the fishway AWS will be off so the PUD can do turbine maintenance. **ACTION:** Mackey will add unit outages to the FPOM calendar.

- 3.5. TDA PUD bridge demo schedule. Cordie notified FPOM that the bridge demolition will be done at night on 1 October.
 - 3.6. NWP winter maintenance schedules. (attached to the minutes). These will be discussed at the October FPOM meeting.
 - 3.7. NWW fish truck release site at BON. Bailey talked about the inadequacies of the release site. He recommended a higher pipe and steeper ramp. Truck drivers found out the pump isn't needed due to the pressure provided by the gravity flow. At earlier releases, some fish were lost due to the issues with the pipe. After some trial and error, drivers figured out how to not insert the release hose too far into the release pipe so fish wouldn't get washed back out.
 - 3.7.1. Fredricks asked about fish getting stuck between the pipe and the hose. Dykstra responded that fish were getting stuck originally. Modifications will need to wait until winter maintenance, so the drivers are dealing with the issues as best they can until the end of the trucking season.
 - 3.7.2. Fredricks asked about needing to go to barging. Bailey said that there is no need to do that at this time, it isn't worth it.
 - 3.7.3. Bettin asked when the fix would be done. Dykstra indicated mods would be completed by the time trucking season starts next year.
 - 3.7.4. Martinson commented that he looked at the set up the other day and suggested the easiest fix might be to remove the flat section of hard pipe and weld in a more sloped piece into the flume so the release hose could release fish safely into the flume.
 - 3.7.5. Hevlin asked who the project manager is. Bailey responded that it is Liz Hall in NWP. It was suggested that she get more involved and that the plans probably should have been taken to FFDRWG. Klatte said Hall is well aware of the issues and we are moving forward with mods.
4. **BON split flows.** Hausmann reported that BON split flows due to fish numbers on 4 September.
 - 4.1. One issue- GDACS operates PH2 units, when flows are split, at the lower end of the 1% band. Fisheries attempted to adjust those units to the mid/upper end on 4 Sept. There is nothing in the FPP that specifies the units must run at the mid-upper 1%. Schwartz recommends including language in the FPP. There was some discussion as to where a change should be made. It was determined that the request to attempt to operate units at the mid or upper end of 1% should be in the BON 2.1.2 section. **ACTION: Mackey to draft the change form to include a preference for operating at the mid or upper 1% range whenever possible.**
 - 4.1.1. The TSP program is really where this issue needs to rest. The TSP program hasn't yet gotten enough information to suggest changes to the load shaping guidelines. Bettin mentioned the gateway issues, Fredricks responded that he assumes we will fix the gateway issues. Fredricks would like to see the BON 2.1.2 language say to not run at the low end, but not specify the mid or upper 1% due to potential issues with the FGE mods. **ACTION: Schwartz will set up a FGE mods meeting for the week of 22 September.**
 - 4.1.2. Bettin suggested including a line on the BON turbine table with split flows. The unit priority is not broken out by powerhouse. **ACTION: Mackey to add the row and draft the change form.**
 - 4.1.3. Fredricks would like to discuss the PH2 unit priority at a future meeting.
 - 4.2. Second issue- BON wants to discuss the fish counts used when deciding to split flows. Should jacks be considered? Should flows be split when there are large numbers of shad? Fredricks responded that splitting flows for shad numbers probably isn't an issue since flows are usually split at that time anyway. He would not want to voluntarily split flows at that time of year anyhow. He does believe jacks should be included. A change form needs to be written. **All of FPOM agreed. ACTION: Mackey will write up the change form to include adults and jacks in FPP BON 2.1.2.**
5. **BON PH1 fish screen install date.** Fish screens are not installed at PH1 until 15 September. If flows are split prior to 15 September, adult fallback and kelts may pass through unscreened turbines. Fredricks explained how the 15th was chosen, it allowed for juvenile protection into September. Bettin asked how long we would have to continue to install fish screens. Fredricks and Schwartz

replied that the PH1 ITS wall won't be removed until there is enough money in the SCT budget. At this point, no one is sure when that will be. Fredricks suggested the screens be put in as soon after spill as possible and they should definitely be in if the flows are split, to provide adult fallback protection. Bettin suggested putting screens in the last week of August. Fredricks wasn't as comfortable with that since there are still a number of juveniles in the river. **FPOM agreed to new language that says to put screens in as soon as possible after the end of spill. 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**

6. **BPA unit limitations at BON PH2.** Bettin reported that TBL is doing switch work at Bonneville. He was not aware of the work before it started happening, thus the late notice to FPOM. All power currently goes through one bus bar, which isn't the best operating practice. They are adding an additional bus bar so the entire powerhouse doesn't need to be out of service when they perform maintenance on one bus. The outage will continue until 3 October. A handout was provided with the agenda and is attached to the minutes.
 - 6.1. Currently using four units at powerhouse two with the fifth as on standby. Right now the split between the two powerhouses works well due to the splitting of flows due to fish numbers. After we return to normal operation for fish, the flows will still be split until 3 October for this BPA work.
 - 6.2. Fredricks brought up issue about CRIFTC wanting more leads down at the AFF and how the split flows may allow for that to happen. More discussion occurred under agenda item #8.

7. **BON Bradford Island transformer pad.** Schwartz explained that the project team would like to move from 3 November to 15 October. The team provided a schedule (attached in the minutes). Lorz suggested the start time could move from 2000 to 1800, given that it gets dark fairly early by 15 October. **FPOM approves those changes. ACTION: Mackey will update the daylight spill table to reflect the new daylight savings time.**
 - 7.1. **B2CC.** Schwartz explained that the B2CC is in need of concrete repairs. There is additional joint and floor spalling in new areas. A survey and recommendations for repairs will be done earlier this year, hopefully in the next few weeks. **ACTION: Schwartz will get the recommendations to Mackey and Klatt to send to FPOM.**

8. **BON AFF picket leads.**
 - 8.1. Hausmann started by describing the e-mail that restricted the AFF users to the FPP Appendix G protocols (two leads for all hours). Reasons for the changes include the mortalities and the failure to raise the picket leads. Schwartz asked how the two mortals died. CRIFTC found them in the brail pool. The one found on the grizzly didn't show signs of genetic sampling. Lorz wanted a chance to go back to the office and talk about why the leads weren't raised on time.
 - 8.1.1. Fredricks commented that the failure to raise the leads wasn't discussed when he talked with Rock Peters. Mackey noted that the picket lead issue was included in the e-mail notification. Lorz mentioned that fish numbers are dropping, and with the powerhouse split drawing more fish to PH1, there are few coming into the AFF.
 - 8.1.2. Fredricks said there are two issues, one is compliance, the other is relaxing the criteria. He would prefer Project Fisheries make that call. It is the responsibility of USACE to safeguard those fish. No one else is standing there looking at what is going on daily, except Project Fisheries. Lorz said that it would be nice to have the 14 August AFF meeting minutes to see what, exactly, was agreed to. Also, Lorz would like notification sent to him as well so he isn't blindsided when he comes to Regional meetings. He will go back to the office and talk to the samplers but even with the recent mortalities, CRIFTC is well below the permit take allowed. He also commented that there are some projects that kill plenty of juveniles. Due to that, he would like to see all groups adhere to the same standards. Mackey said the dead fish weren't what prompted the return to original FPP protocols, it was the failure to adhere to the one hour limit. **ACTION: Mackey will send the 14 August AFF meeting minutes.** Schwartz commented that the purpose of that August AFF meeting was to develop more trust between the Project and CRIFTC. Project Fisheries was uncomfortable relying on the researchers to police themselves with the picket leads, due to

the water temperatures and the numbers of fish in the ladder. An agreement was made, and trust was given, but now the trust has been broken again.

8.1.3. Right now the protocols are two leads for all hours. If FPOM wants to go back to more leads for any length of time, there needs to be another meeting to discuss the issue. Lorz needs time to talk with the samplers and Mackey will arrange for a meeting on Monday. Until after the meeting, the current protocols will remain in place. **ACTION: Mackey to set up a meeting room for Monday.**

8.1.4. Stephenson commented that the fish counters are seeing a push of fish come through in the afternoon. She wondered if there was a way to stagger the raising of leads so the fish don't all arrive at once. She wondered about what was coming out of the facility, if the fish would surge out or not. Fredricks said the big push would be from raising the picket leads, fish trickle out of the AFF.

8.1.5. UPDATE- a meeting was held at 1500 on 15 September at CRITFC to discuss the AFF picket lead protocols. Mackey sent an e-mail with the meeting results. They are also included here. Outcomes of the meeting were:

1. Better communication is needed between CRITFC and BON Fisheries. They will work on clarifying guidelines and getting it in writing so there is no misunderstanding. Whiteaker and Rerecich will communicate directly so information is first hand instead of second or third.
2. Three leads down will be the baseline for now.
3. Four leads may be down for two ½ hour periods, or one hour total.
4. Rerecich will make a new AFF picket lead sheet so the number of leads may be more accurately tracked.
5. Mackey and Lorz will talk with Fredricks about density/temperature triggers for allowing four leads during the entire sample day. They will report to everyone by Wednesday (after FFDRWG).
6. After the sample season, the team will work on drafting CRITFC AFF protocols in anticipation of the 2009 sample season.
7. Brail pool modifications will be looked at during winter maintenance.

8.1.6. UPDATE – At FFDRWG, protocols were further discussed and the remaining season operation will be as follows:

1. When water temps drop to 65F and fish numbers in Washington Shore drop below 7000 adult and jack salmonids, then four leads may be down for three hours.
2. Until those two criteria are met, the current operation of four leads for one hour, or two ½ hour blocks, will remain in place.
3. The BON POC is Jon Rerecich. Please direct all questions or concerns to him.

8.2 New AFF picket leads. Lorz would like to see the installation of the new picket leads on the winter maintenance schedule. This will also be discussed at FFDRWG on 17 September.

ACTION: Mackey to check with Langeslay to see that the AFF is on the FFDRWG agenda.

9. Galvanized grates. Cordie reported on the powder-coating option for the galvanized grates. Just need FPOM approval for whether or not this can be used. This may not be necessary, depending on what the final results of the water quality testing.

10. JDA North ladder updates and early coordination. Cordie gave a heads up that there will be a request, through FFDRWG, for an extended outage for the north ladder rebuild. A quick analysis showed that November is not a good time to have the ladder out of service, but March is ok. It looks like the team will propose splitting the extended outage to mid-November to mid-March. Fredricks commented that ODFW would probably have concerns with moving too far into March due to the steelhead moving through to the spawning grounds. **ACTION: Cordie to send the analysis to Mackey to include in the minutes.**

11. JDA SMF sampling. Cordie talked about the FPP Appendix K protocols for reducing sampling to 0600-1200 during high water temps. The Project had found temperature spikes through the day so they thought it would be best to limit the collection of 100 fish to the morning hours to reduce

holding time and stress related to higher temperatures. This change was adopted at the February 2008 FPOM. Martinson commented that the six hours doesn't give much coverage to determine what is going on through the bypass. McCann suggested running that question through the salmon managers in FPAC. Martinson said the change was not discussed. Mackey said it had been discussed at the February FPOM. The change form was submitted, the changes were discussed and finalized at that meeting. McCann felt it was a decision that FPAC should make. He also expressed concern about the lack of coverage. Fredricks said what he heard from Cordie made sense. McCann asked about diel passage. Fredricks reminded everyone what the purpose of the monitoring is for, we are looking for gross problems within the bypass. He also commented that it was a change to the FPP but just because people missed it isn't a reason to dismiss it out of hand. It needs a larger discussion. Fredricks would like Cordie to present his rationale for the change, in a written format.

11.1. Cordie asked how, aside from issues at the Project, how is the condition data being used? Lorz said FPAC is meeting next week so if Cordie can get something written by then, they can discuss it. **ACTION:** Cordie will get his rationale in writing. Lorz will get the issue on the FPAC agenda.

12. Presentation on efforts to improve fish condition collection and reporting. The presentation may be found at: http://www.fpc.org/documents/misc_reports/Smolt%20Monitoring%202009.pdf

12.1. Dykstra gave a quick review of the 3 September meeting where the Projects talked about how they do things differently and what they do the same. It was an informative meeting. USACE was not attempting to developing a parallel product as what FPC is working on for the Smolt Monitoring Program. Fredricks asked if there were meeting minutes from the 3 September meeting. Dykstra responded that he has the agenda but he didn't take notes. Fredricks stressed that a start to this process can begin here but the group needs to meet further up-river so everyone may participate. **ACTION:** Dykstra will compile the various notes taken by others and send them to FPOM.

12.1.1. McCann began his presentation and expressed a desire to get the NWP involved in the discussions as well. FPC is re-writing the data entry program for the 2009 sample season. They will fold in the changes that come out of the standardization discussions. A bit of the history included the request from FPAC for real time data in 2007. There have been problems with different sites having different methods of sampling and collecting different information. FPC didn't standardize data collected, they just standardized the reporting. Dykstra said FPC has a good list of metrics but we have to be careful how it is presented. Injuries reports, such as fin pinkness are of particular concern. FPC explained how they report those fish that have multiple injuries. Future steps include defining the use of the data. Need to determine appropriate sample size and sampling frequency.

12.1.2. McCann asked the salmon managers what they felt the use of the data was. **ACTION:** Dykstra will mesh the FPP language so FPC and USACE protocols are more closely aligned. After the powerpoint presentation, discussion continued around the table.

12.1.3. Mensik expressed a desire to keep his current test file but he is hearing that FPC isn't considering retaining that. FPC said they will provide and import/export report and provide assistance in transferring data to the annual reports. FPC stated that this is a modernization of the monitoring program and they are hearing a fear of change. WDFW adamantly stated they are not fearing the change but they do need the flexibility to provide different reports to both FPAC and USACE. They also want to be involved in the development of the end product. Chockley indicated there may be a problem with the text file since Sergei is working on developing a program for all sites.

12.1.4. Dykstra commented that he thought USACE and FPC would work together on this project but he is hearing that FPC anticipates writing letters back and forth in a more formal manner. FPC responded that obviously that isn't going to be enough and there needs to be a process for communication. Fredricks asserted that FPOM is the process for communication and getting this project to completion. He anticipates this being a major topic of each meeting for the next few months. FPC responded that some aspects are appropriate for FPOM input but there are two paths they are following: one for FPAC and

one for FPOM. NOAA stated again that FPOM communicates well and FPOM is the appropriate forum for this type of project.

12.2. The SMP meeting continued after FPOM adjourned. The notes below are from that meeting.

Last	First	Agency	Office	Email
Bailey	John	USACE	509-527-7123	John.c.bailey@usace.army.mil
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Fredricks	Gary	NOAA	503-231-6855	Gary.fredricks@noaa.gov
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Morrill	Charles	WDFW	360-902-2747	
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Wills	Dave	USFWS	360-604-2500	David_wills@fws.gov

12.3. McCann would like ideas on how to define the metrics, e.g. multiple symptoms- how do you accurately report those without over or under inflating the issue? Martinson suggested reviewing the slides of the standard metrics and determining how to classify each metric. Fredricks suggested FPC figure out how to incorporate user defined buttons so each site can record interesting or potentially important information as they see it. Everyone agreed to user defined buttons. McCann committed to progress reports at every FPOM. There needs to be a meeting to discuss the proposed categories. FPC will work with WDFW and SMP personnel to make sure the categories are all included. **ACTION:** Mackey to reserve a call line for 29 September at 1300. **ACTION:** McCann will put the ppt. on the website and send the location to Mackey.

13. WDFW discussion of the jack size. Richards talked about the WDFW memo he handed out. It is not ready for public distribution. He would like FPOM to review it and provide comments back to Cindy LeFleur. He talked about some of the differences between the WDFW and the CRITFC memos for jack sizes. WDFW uses total length, CRITFC uses fork length. WDFW refers to the jacks as one salt or two salt fish. **ACTION:** Richards will send a copy of the memo to FPOM when he sends it to LeFleur. At that time, FPOM will submit comments.

14. MCN dewatering screen monitoring. Moved to October

15. MCN OR fish ladder exit coordination. Dykstra explained there are 80' traveling screens at the ladder. The driveshaft to rotate the screen is broken. The screen is collecting debris. The Project would like to go in to clean the screen before it collapses. The process involves installing stop logs. The fish impact is the 1K will be shut off during the installation of the stop logs, which is expected to take about two hours. The Project would like to do this the week of 22 September. This won't affect the fish in the ladder. The flow must be shut down so divers can get in to clean the sill for the stop log. Meyer asked if the flow also feeds the irrigation ditch, and if there would be an unscreened diversion to the irrigation ditch. He asked for clarification for the purpose of the stop logs. Dykstra said the flow is stopped only so divers can get in to clean the sill so stop logs can be installed and the screen can be cleaned. In the past, when the flow is off, there has not been signs of impacts to fish, but if the screen is not cleaned, there is a likelihood it will break and then there will be an extended outage that will impact fish. Lorz asked when the drive shaft would be fixed. Fredricks requested Dykstra get a schedule for the drive shaft repairs to Mackey to include in the minutes. **FPOM says ok for a mid-day outage. ACTION:** Dykstra to send a driveshaft repair schedule to Mackey for inclusion in the meeting minutes.

16. MCN fish pump coordination. Dykstra reported a problem with fish pump #3. It is causing the Project problems and is currently out of service. The stop logs didn't seal properly so it was difficult to dewater pump #3. The Project fixed the compression springs so they believe the stop logs will

now seal. The Project is requesting a five hour outage for pumps 1 and 2 so stop logs may be installed for pump 3. The hours may be split up with the intake stop logs one day and the outtake stop logs on another day if that is more desirable. The stop log installation requires divers so this work may not be done at night due to safety concerns. If the work is delayed the repairs may not be completed before the start of the 2009 fish passage criteria. Eby commented that another problem is FPP criteria is not being met with two pumps. The third pump is really needed to remain in FPP criteria. Dykstra looked at the peak passage for BON. It takes about a week for fish to reach MCN from BON. Fredricks said that the peaks may not translate well upstream due to tules and such passing BON. He has concerns about a request to shut down the north ladder for research. The cumulative effects may start adding up. He asked if there is anyway to put off the outage for a few weeks. This sort of activity should not be done during the peak of the run. Dykstra will plan this work for the week of 6 October, after the peak has moved by. **FPOM says ok to performing this work during early October.** Richards asked Eby how well they were holding FPP criteria. Eby responded that they were close to maintaining the 9' criteria. Fish are still moving through but they are a couple tenths shy of meeting criteria.

16.1. Conversation turned to the fact that there is no back-up pump. **ACTION:** FPOM would like to look at emergency back-up operation in the event a pump goes out.

17. LGS orifice backflushing. Moved to October

18. OTHER.

18.1. Stephenson reported that the fish counters requested the upstream fish viewing window lights be left on. Mackey said the fish viewing windows in the visitor center area are usually off. Stephenson would like to try turning those on to see if fish would move through better. Stansell commented that those lights haven't been on in years, so what has changed? He would like to explore what may have changed in the ladder to affect fish passage before turning on more lights. **ACTION:** Stephenson will inquire further as to the need for the extra lights, then let Mackey know if further coordination is needed.

18.2. LMN needs to change the unit priority for this weekend. U2 is current priority unit, but a critical maintenance test is needed on T2. This will require running U5 over the weekend so oil samples may be taken. Hevlin asked if U3 was available. Dykstra responded that U5 and U6 are the only two on T2 so it has to be one of those two units. Benner asked if it had to be **this** weekend. Dykstra said yes. Fredricks asked for more clarification as to why this has to be done. Dykstra explained that this is NERC compliance. Oil samples are taken to determine the insulation properties and to see if gases build up. If gases are building up, there is a risk of a unit catching fire. Bettin said that the change isn't as bad as it sounds since there is a good chance U2 will be operating anyway due to flow. Bettin asked about operating U5 at the lower end of 1% to help ensure U2 will also be operating. **FPOM says ok.**

19. Task Group updates

19.1. Fishway velocity (*Chair-Cordie, Fredricks, Lorz, Meyer, Mackey*). **ACTION:** Mackey to set up a conference line and send attachment to task group members.

19.2. Lamprey (*Chair-Cordie, Clugston, Dykstra, Lorz, Mackey, Meyer, Moody, Moser, Peery, Rerecich, Zyndol*). CTUIR got their lamprey by using the portable trap between the count station picket leads. The USACE 10 year plan is drafted but still internal.

19.3. PH2 VBSs (*Chair- Hausmann, Benner, Fredricks, Klatte, Lorz, Mackey, Meyer, Wills*).

19.4. Pinnipeds (*Chair-Stansell, Bettin, Benner, Brown, Fredricks, Hausmann, Kruger, Stephenson, Richards, Wills*). **ACTION:** Lorz to send Bettin some information about hazing sea lions.

19.5. TIES (*Chair-Klatte, Bettin, Benner, Fredricks, Kruger, Mackey, Schwartz, Wills*) **ACTION:** Klatte to set up a meeting to discuss the data in October.

19.6. Water Quality (*Chair- Klatte, Cordie*) Task group may be deleted depending on water sample results.

20. FPP proposed changes. Feil may try to get the draft out prior to October.

20.1. BON sturgeon language. (incorporates changes from May 2008 mtg)

- 20.2. BON 2.4.2.2.n.1 relocation.
- 20.3. TDA and JDA velocity measurement language.
- 20.4. Appendix G- BON protocols section 4.2. (incorporates changes from July 2008 mtg)
- 20.5. Appendix G- BON protocols for holding lamprey.
- 20.6. BON shad passage mode criteria.
- 20.7. Appendix A- increasing the 72 hour heat run time.
- 20.8. Appendix G- BON valve numbering correction.
- 20.9. BON 2.1.2- include jacks in salmonids counts for splitting flows.
- 20.10. BON 2.1.2- include preference for mid to upper 1% turbine operations during split flows.
- 20.11. Table BON-11- include split flow unit priority row to the table.
- 20.12. 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.

21. FPP approved/rejected changes from March 2008- present.

- 21.1. LGS spill pattern. **Approved** at the April FPOM.
- 21.2. LMN spill pattern. **Approved** at the April FPOM.
- 21.3. MCN unit priority. **Approved** at the April FPOM.
- 21.4. MCN spill pattern. **Approved** at the April FPOM.
- 21.5. JDA SMF PIT tag shutdown. **Approved** at the April FPOM.
- 21.6. TDA ITS closure. **Approved** at the April FPOM
- 21.7. BON 50K dates. **Approved** at the April FPOM.
- 21.8. JDA turbine unit 5. **Approved w/changes** at the May FPOM.
- 21.9. JDA SMF PIT tag shutdown date. **Approved** at the May FPOM.
- 21.10. Voluntary v involuntary spill definitions. RCC recommended against including these definitions in the FPP at the June FPOM.
- 21.11. ICH 1% tables. **Approved** at the June FPOM.
- 21.12. TDA spill pattern change. **Approved** at the June FPOM.
- 21.13. App. G- BON protocols section 4.2. **Approved w/ changes** at the July FPOM.
- 21.14. App. G-BON picket lead operations at high temps. **Rejected** at 16 July meeting.
- 21.15. App. G- BON protocols for trapping lamprey at water temps of 70°-72°F. **Approved** via e-mail coordination in early August.
- 21.16. BON 2.1.2- include jacks in salmonids counts for splitting flows. **Approved** at Sept. FPOM.

22. Adjourned at 1300

23. Finalized results from this meeting.

- 23.1. FPOM agreed that jacks should be included in fish counts for deciding to split flows at BON.
- 23.2. FPOM agreed to the new language regarding the BON PH1 fish screen install date. It will now be as soon as possible after spill ends.
- 23.3. FPOM approved allowing the BON BI junction pool transformer pad contractor to begin work at 1800 on 15 October.
- 23.4. FPOM approved changing LMN unit priority for the weekend to accommodate NERC compliance testing on T2.
- 23.5. FPOM agreed to MNC cutting flow to the OR ladder one day the week of 22 September. They requested the work be performed during mid-day.
- 23.6. FPOM approved the outage requested by MCN to install stop logs and make repairs to fish pump #3.

24. The following documents were provided or discussed. They are included in the minutes.

- 24.1. *Agenda, Fish Passage O&M Coordination Team.*
- 24.2. *NWP Winter maintenance schedules.*
- 24.3. *BON junction pool transformer pad information.*
- 24.4. *BPA Bonneville Generation memo.*
- 24.5. *Status and Plan regarding zinc galvanized grating and field sample evaluations at TDA*

24.6. *JDA north ladder fish passage analysis (three pages).*

24.7. *FPP change forms.*

24.8. *FPOM Calendar.*

CENWP-OD-B

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 **08 Jan 09**
- 2.3.3. Dewater exit section on **08 Jan09**
- 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

- Dewater

Jan. 13, '09 – Feb. 28, '09

- 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

**Bonneville
Power Admin.**

Munro Outage Office

509-466-2409 fax 509-466-2444

E-mail: bpaoutage@bpa.gov



**NOTICE OF PLANNED GENERATION
CONSIDERATIONS**

Date: September 4, 2008

INTERIM RESTRICTION SEPTEMBER 8-9

START DATE/TIME	September 3, 2008 at 1630 hours September 8, 2008 at 12:15 hours to September 9, 2008 at 1700 hours. The restriction listed in red will apply until 1700 Hrs or upon notification of the BPA Generation Dispatcher.
END DATE/TIME	October 3, 2008 at 1600 hours
REASON FOR NOTIFICATION	Transmission System Conditions are cause for this limitation.
GENERATION CONSIDERATIONS	Bonneville Powerhouse-N. Bonneville #3 and #4 230KV lines will be restricted to 330 MW (250MW) Maximum, during the times stated above.
ORIGINATOR	<i>Paul W. Adamske</i>

Revision #/Date	Cause for Revision	Initials

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WA MBE/DBE #D3M8719211 www.

Contract #W9127N-08-C-0015

Bonneville Spillway and Power Distribution Improvements

SCHEDULE FOR BRADFORD ISLAND NIGHTTIME WORK

This is based on performing this work on or about 15-October-2008. We believe this work could be started at 2000(8 PM) based on published nautical and astronomical twilight times for this time of the year for Cascade Locks, Oregon. However, if need be the start time could be pushed back.

2000-2200 HRS(8 PM to 10 PM): Mobilization, core (1) 5' hole in HVCV10

2000-2100 HRS(8 PM TO 9 PM): Saw cut 9' x 9' area for pad placement

2100-2300 HRS(9 PM TO 11 PM): Excavate spoil and chip off top of duct bank

2300-0100 HRS(11 PM TO 1 AM): Place backfill gravel as needed and compact, dig out key per RFI #4 response

0100-0300 HRS(1 AM TO 3 AM): Place wooden form and drive stakes to hold form in place

0300-0400 HRS(3 AM TO 4 AM): Demobilization

We believe all remaining work(pouring concrete, setting steel channel, electrical work) would be within an acceptable decibel range to be performed during the day.
electrical contractor; commercial residential industrial

From: Bob Cordie, Project Biologist The Dalles/John Day Dams
Date: 9/17/08

Memorandum For the Record

Re; Status and Plan regarding zinc galvanized grating and field sample evaluations at The Dalles Dam

The Dalles project purchased a large portion of new zinc galvanized grating for replacement in the east fishway several years ago. With recent concern for zinc leaching into fishways, potentially resulting in negative fish passage impact, installation has been postponed.

Two areas have relatively recent replacement with new zinc galvanized grating prior to the zinc concern; all of the north fishway entrance area in 2003 and the east fishway uppermost two sections in 2006. Therefore, field samples were taken from these areas to determine if detectable zinc is found leaching from these grating. River samples were also taken for background zinc concentration levels.

July 3, 2008 sample results; (Coffey Laboratories Inc)

Detectable limit (MRL) 0.05mg/L

East Junction Pool	non detect
East entrance tailrace	non detect
North entrance channel	non detect
North exit forebay	non detect

Aug 18, 2008 sample results; (Pyxis Laboratories LLC)

Detectable limit (MRL) 0.01mg/L

East Junction Pool	non detect
East entrance tailrace	non detect
East lower ladder	non detect
North entrance channel	non detect
North exit forebay	non detect
Pour through galv grating	1.8mg/L

Results from the first set of samples did not have a low enough detection limit. Results from the second set seem to indicate we are well under 0.026mg/L limit of concern as indicated from the fish behavior lab study. Furthermore it revealed there is leaching from grating but dilution from fishway flow may bring concentrations within acceptable limits.

Future sampling plan includes the same locations, as well as placement of a galvanized panel into the fishway for a sample with closer proximity to newly installed grating. This would be done mid November in the north fishway to minimize potential fish impact.

Additionally, the project will plan to install one additional section (between overflow weirs) in the lower east ladder during the '08/'09 winter maintenance season for an additional field sample analysis to confirm previous samples results.

Bob Cordie

By taking the John Day North fishladder out 11/1 - 2/28, you miss the opportunity to pass the 11/1 - 11/30 fish (grayed out) but you gain the opportunity to pass the 3/1 - 3/30 fish at the North ladder.

Date	CA	CJ	KA	KJ	BB	SH	Chum	Pin k	SY	Lamprey	5-yearTotal	Per Year	
		21											
2007 Nov 1-15	595	2	154	2	0	2157	0	0	481	5			
2006 Nov 1-15	1317	31	2714	0	0	9052	0	0	2323	0			
2005 Nov 1-15	317	6	1840	6	0	5404	0	0	1582	0			
2004 Nov 1-15	948	14	727	29	0	2405	0	0	842	0			
2003 Nov 1-15	859	51	97	25	0	4275	2	0	1215	0			
2007 Nov 16-30	362	87	33	4	0	3352	0	0	933	4			
2006 Nov 16-30	362	0	1829	0	0	3857	0	0	899	0			
2005 Nov 16-30	88	0	159	0	0	754	0	0	139	0			Net Loss
2004 Nov 16-30	508	2	27	0	0	1040	1	0	348	0			6141
2003 Nov 16-30	73	1	30	0	0	1753	0	0	443	0			
		40											
Total	5429	4	7610	66	0	34049	3	0	9205	9	56775	11355	LOSS
2007 Mar 1-15	0	1	0	0	0	1460	0	0	487	0			
2006 Mar 1-15	0	0	0	0	0	144	0	0	4	0			
2005 Mar 1-15	0	0	0	0	0	1405	0	0	92	0			
2004 Mar 1-15	1	0	0	0	0	1138	0	0	291	0			
2003 Mar 1-15	201	0	0	0	0	5682	0	0	1401	0			
2007 Mar 16-30	1	0	0	0	0	1978	0	0	627	0			
2006 Mar 16-30	0	0	0	0	0	1079	0	0	65	0			
2005 Mar 16-30	15	0	0	0	0	1129	0	0	112	0			
2004 Mar 16-30	122	0	0	0	0	1423	0	0	175	0			
2003 Mar 16-30	2775	0	0	0	0	3421	0	0	841	0			
Total	3115	1	0	0	0	18859	0	0	4095	0	26070	5214	GAIN

By taking the John Day North fishladder out 11/15 - 3/15, you miss the opportunity to pass the 11/16 - 11/30 fish (grayed out) and the 3/1 - 3/15 fish (grayed out),

but you gain the opportunity to pass the 11/1 - 11/15 fish and the 3/1 - 3/30 fish at the North ladder.

Date	CA	CJ	KA	KJ	BB	SH	Chum	Pin k	SY	Lamprey	5-yearTotal	Per Year	
		21											
2007 Nov 1-15	595	2	154	2	0	2157	0	0	481	5			
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2004 Nov 1-15	948	14	727	29	0	2405	0	0	842	0			
2003 Nov 1-15	859	51	97	25	0	4275	2	0	1215	0			
		31											
Total	4036	4	5532	62	0	23293	2	0	6443	5	39687	7937.4	GAIN
2007 Nov 16-30	362	87	33	4	0	3352	0	0	933	4			
2006 Nov 16-30	362	0	1829	0	0	3857	0	0	899	0			
2005 Nov 16-30	88	0	159	0	0	754	0	0	139	0			
2004 Nov 16-30	508	2	27	0	0	1040	1	0	348	0			
2003 Nov 16-30	73	1	30	0	0	1753	0	0	443	0			
2007 Mar 1-15	0	1	0	0	0	1460	0	0	487	0			
2006 Mar 1-15	0	0	0	0	0	144	0	0	4	0			
2005 Mar 1-15	0	0	0	0	0	1405	0	0	92	0			
2004 Mar 1-15	1	0	0	0	0	1138	0	0	291	0			
2003 Mar 1-15	201	0	0	0	0	5682	0	0	1401	0			
Total	1595	91	2078	4	0	20585	1	0	5037	4	29395	5879	LOSS
2007 Mar 16-30	1	0	0	0	0	1978	0	0	627	0			
2006 Mar 16-30	0	0	0	0	0	1079	0	0	65	0			
2005 Mar 16-30	15	0	0	0	0	1129	0	0	112	0			
2004 Mar 16-30	122	0	0	0	0	1423	0	0	175	0			
2003 Mar 16-30	2775	0	0	0	0	3421	0	0	841	0			
	2913	0	0	0	0	9030	0	0	1820	0	13763	2752.6	GAIN

Net
Gain 4811

By taking the John Day North fishladder out 12/1 - 3/30, you miss the opportunity to pass the 3/1 - 3/30 fish (grayed out)

but you gain the opportunity to pass the 11/1 - 11/30 fish at the North ladder.

Date	CA	CJ	KA	KJ	BB	SH	Chum	Pink	SY	Lamprey			
		21											
2007 Nov 1-15	595	2	154	2	0	2157	0	0	481	5			
2006 Nov 1-15	1317	31	2714	0	0	9052	0	0	2323	0			
2005 Nov 1-15	317	6	1840	6	0	5404	0	0	1582	0			
2004 Nov 1-15	948	14	727	29	0	2405	0	0	842	0			
2003 Nov 1-15	859	51	97	25	0	4275	2	0	1215	0			
												Net Gain	
2007 Nov 16-30	362	87	33	4	0	3352	0	0	933	4		6141	
2006 Nov 16-30	362	0	1829	0	0	3857	0	0	899	0			
2005 Nov 16-30	88	0	159	0	0	754	0	0	139	0			
2004 Nov 16-30	508	2	27	0	0	1040	1	0	348	0			
2003 Nov 16-30	73	1	30	0	0	1753	0	0	443	0			
		40											
Total	5429	4	7610	66	0	34049	3	0	9205	9	56775	11355	GAIN
2007 Mar 1-15	0	1	0	0	0	1460	0	0	487	0			
2006 Mar 1-15	0	0	0	0	0	144	0	0	4	0			
2005 Mar 1-15	0	0	0	0	0	1405	0	0	92	0			
2004 Mar 1-15	1	0	0	0	0	1138	0	0	291	0			
2003 Mar 1-15	201	0	0	0	0	5682	0	0	1401	0			
2007 Mar 16-30	1	0	0	0	0	1978	0	0	627	0			
2006 Mar 16-30	0	0	0	0	0	1079	0	0	65	0			
2005 Mar 16-30	15	0	0	0	0	1129	0	0	112	0			
2004 Mar 16-30	122	0	0	0	0	1423	0	0	175	0			
2003 Mar 16-30	2775	0	0	0	0	3421	0	0	841	0			
Total	3115	1	0	0	0	18859	0	0	4095	0	26070	5214	LOSS

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.

August 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 FPAC TDA ROV	6 TMT JDA ROV	7	8	9
10	11	12 FPAC AFEP pre-proposals sent out	13 TMT	14FPOM- BON Velocity and VBS task groups	15	16
17	18	19 FPAC	20 TMT	21 SCT	22	23
24	25	26 FPAC AFEP pre-proposal review	27 TMT AFEP pre-proposal review	28 NWP – FFDRWG AFEP pre-proposal review	29	30
31 Spill Season ends						

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.	16 FPAC	17 TMT NWP FFDRWG Happy birthday	18 SCT	19	20 Happy Birthday
21	22	23 FPAC AFEP pre-proposal comments due BON FGE mtg	24 TMT Predation Workshop at OR Zoo TDA PUD outage for one hour.	25	26	27 Happy Birthday
28	29 1300 SMP call BON unit priority change for U11 dewater.	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	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	