

CENWP-OD

22 January 2015

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 22 January 2015 FPP change form meeting.

The meeting was held at the CRITFC offices, Portland OR. In attendance:

Last	First	Agency	Email
Bailey	John	NWW	
Baus	Doug	NWD-RCC	Douglas.m.baus@usace.army.mil
Benner	Dave	FPC	
Bettin	Scott	BPA	swbettin@bpa.gov
Conder	Trevor	NOAA	Trevor.conder@noaa.gov
Cordie	Bob	NWP-TDA	Robert.p.cordie@usace.army.mil
Dugger	Carl	NWW-MCN	
Fone	Ken	NWW-IHR	
Fredricks	Gary	NOAA	Gary.fredricks@noaa.gov
Hausmann	Ben	NWP-BON	Ben.j.hausmann@usace.army.mil
Hevlin	Bill	NOAA	Bill.hevlin@noaa.gov
Kiefer	Russ	IDFG	russ.kiefer@idfg.idaho.gov
Lorz	Tom	CRITFC	lort@critfc.org
Mackey	Tammy	NWP	Tammy.m.mackey@usace.army.mil
Mensik	Rosanna	PSMFC	
Morrill	Charles	WDFW	
Petersen	Christine	BPA	
Royer	Ida	NWP-BON	
Sears	Sheri	Colville Tribes	
Setter	Ann	NWW	Ann.L.Setter@usace.army.mil
Skalicky	Joe	USFWS	
Spurgeon	Bill	NWW-LMN	
Wright	Lisa	NWD-RCC	Lisa.s.wright@usace.army.mil
Zorich	Nathan	NWP-FFU	Nathan.a.zorich@usace.army.mil
Zyndol	Miro	NWP-JDA	Miroslaw.a.zyndol@usace.army.mil

Dugger, Hevlin, Kiefer, Morrill, Petersen, Sears, Skalicky called in.

January birthdays include: Conder and Wright
HAPPY BIRTHDAY!

1. FPP change forms approved.

1.1. 15BON005 – B-Branch Entrance Gates.

1.2. 15BON007 – Facility Winter Inspections. *Approved with changes- one inspection a day/seven days a week with at least three inspections being completed by Project Fisheries.*

1.3. 15BON008 – Facility Inspections. *Approve with changes.* Changes include sticking with three inspections but clarifying that the inspections are one from Fisheries, one from Operators, and one modified (PLC only).

1.1. Changes for the winter will include changes approved in 15BON007.

1.2. 15BON009 – Fish Salvage Protocols.

1.3. 15TDA002 – Removable Weirs #154-157.

- 1.4. 15TDA003 – Fish Lock. *Approved.* **ACTION ITEM:** Cordie will get more information about the volume.
- 1.5. 15MCN002 – New Section 2.1 Work Near Fishway.
- 1.6. 15IHR001 – New Section 2.1 Work Near Fishway.
- 1.7. 15LMN001 – New Section 2.1 Work Near Fishway.
- 1.8. 15LGS003 – New Section 2.1 Work Near Fishway.
- 1.9. 15LWG001 – New Section 2.1 Work Near Fishway.
- 1.10. 15AppG001 – BON AFF Picket Lead Operations. *Approved with changes.* Changes include: modifying/adding 1.4.5.d and 1.4.5.e.
- 1.11. 15MCN003– Table MCN-9 Spill Patterns.
- 1.12. 15MCN004– Warm Water Ops Temp Review.
- 1.13. 15MCN005– South Shore AWS Ops. *Approved with the idea that future changes are likely.*
- 1.14. 15IHR004 – STS Operation. *Approved with changes.* LMN language inserted into the IHR change form.
- 1.15. 15LMN003 – STS Operation.
- 1.16. 15LGS004 – Cold Weather Definition.
- 1.17. 15AppB002 – Columnaris Operations.
- 1.18. 15AppI001 – DWR Unwatering Protocol.
- 1.19. 15AppL001– Avian Monitoring & Deterrence Plans.

2. FPP change forms still pending, or approved with action items.

- 2.1. 15BON002 – Turbine Start Up Operation. *Pending.* FPOM will reconvene after the Projects can detail how much time they need.
- 2.2. 15BON003 – Table BON-7 DSM Orifice Control. *Approved with the recommendation that the table be replaced with a paragraph describing how the system was designed to operate.* **ACTION ITEM:** Hausmann will draft a paragraph.
- 2.3. 15BON006 – PH2 Mid-Point Operation Dates. *Pending.* **ACTION ITEM:** Lorz said he would ask Chockley to take a look at any data that may be available and see how often units ran in the upper end of 1% and if there is a difference in descaling.
- 2.4. 15TDA001 – Table TDA-4 Unit Priority. *Approved as long as there are not transformer issues.* **ACTION ITEM:** Cordie and Bettin will make sure there are not transformer issues with having units 1-4 as one block. **ACTION ITEM:** Cordie will consolidate the ITS information into one table.
- 2.5. 15AppB001 – Truck Transport Minimum #s. **ACTION ITEM:** Wagner will request NOAA Montlake to look at the data to support the change form.

3. FPP change forms denied.

- 3.1. 15IHR005 – Backflush Orifices.

BONNEVILLE DAM

- 1. 15BON002 – Turbine Start Up Operation. *Pending.* FPOM will reconvene after the Projects can detail how much time they need. FPOM Oct 9, 2014: Fredricks said this should be included in Appendix C Load Shaping Guidelines. BON will find out more about speed-no-load operation and if Appendix C covers 60 minutes.

Bettin asked what the purpose of the change form is. Hausmann explained that the Project needs more than 30 minutes and Appendix C requires coordination for every operation. Fredricks said he

would rather see the Load Shaping Guidelines updated so the changes apply to every project on the river. Fredricks suggested this won't be solved today but we need to look at what needs changed and go through Appendix C in a stepwise manner.

2. **15BON003 – Table BON-7 DSM Orifice Control.** *Approved with the recommendation that the table be replaced with a paragraph describing how the system was designed to operate.* **ACTION ITEM:** Hausmann will draft a paragraph. FPOM Oct 9, 2014: Fredricks said the orifice openings are directly tied to the forebay.

Fredricks said the system is supposed to operate based on forebay so the table should be accurate. Hausmann said the channel is indirectly tied to forebay since Add-in water makes up for what the orifices cannot provide. Fredricks explained that the Add-in is designed to maintain velocity, not elevation.

FPOM expressed concern about losing the history of how systems are designed and operated. Bettin suggested removing the table will take out one more piece of history.

3. **15BON005 – B-Branch Entrance Gates.** *Approved* FPOM Oct 9, 2014: Not approved until FPOM reviews Schlenker's email with justification.
4. **15BON006 – PH2 Mid-Point Operation Dates.** *Pending.* Revised Jan 22, 2015, per Task Group.

Fredricks said it appears the data seems to support both operations. Wright and Bettin explained that the lower range might be better for bypassed fish. Bettin explained that the preference is to operate more units at a lower range than a few units at a higher range. Lorz said if BPA is willing to go low to mid then he can support the change form. Bettin said the whole range is preferred to allow for maximum flexibility. Fredricks said he would like to see the data from the JMF comparing the descaling rate for fish from years when there were no operation restrictions and for fish from last year when there were operation restrictions. **ACTION ITEM:** Lorz said he would ask Chockley to take a look at any data that may be available and see how often units ran in the upper end of 1% and if there is a difference in descaling. Wright cautioned that teletypes dictated the operation for 2012 – 2013 with the FPP finally being updated in 2014. Bettin said hourly data will work fine since changes are requested hourly and not, usually, in 15 minute increments.

5. **15BON007 – Facility Winter Inspections.** *Approved with changes- one inspection a day/seven days a week with at least three inspections being completed by Project Fisheries.* Posted Dec 29, 2014.

Benner suggests changing winter inspections from three times a day three days a week to once a day seven days a week. Hausmann was not onboard with this change. He asked what the justification is. He said operators inspect once a day seven days a week and fisheries inspect once a day three days a week.

Hausmann suggested adding language about three inspections by Fisheries per week. Fredricks didn't think that was necessary. Final language: one inspection a day/seven days a week with at least three inspections being completed by Project Fisheries.

6. **15BON008 – Facility Inspections.** *Approve with changes.* Posted Jan 6, 2015.

Fredricks said the PLC is not an inspection. He said inspections need to include a physical inspection of the fishway. Hausmann said Fisheries could work with the Operators so everyone does the same inspection. Right now the operators are checking the same stuff but use a different form. This change puts more importance on the inspection completed by the operators. Hausmann felt it would be possible to have a training program with the I-grades to make sure everyone is doing the same inspection. Cordie said he would rather have a PLC inspection than a bad operator inspection.

Changes include sticking with three inspections but clarifying that the inspections are one from Fisheries, one from Operators, and one modified (PLC only).

Changes for the winter will include changes approved in **15BON007**.

7. **15BON009 – Fish Salvage Protocols. *Approved.*** Posted Jan 20, 2015.

THE DALLES DAM

8. **15TDA001 – Table TDA-4 Unit Priority. *Approved as long as there are not transformer issues.*** Posted Oct 30, 2014.

Bettin suggested there may have been a reason why units 1-4 were not considered a block. **ACTION ITEM: Cordie and Bettin will make sure there are not transformer issues with having units 1-4 as one block.**

Fredricks noted that there are ITS operations scattered throughout the TDA section. He would like to see that consolidated into one table if possible. **ACTION ITEM: Cordie will consolidate the ITS information into one table.**

9. **15TDA002 – Removable Weirs #154-157. *Approved.*** Posted Nov 3, 2014.

10. **15TDA003 – Fish Lock. *Approved.*** Posted Oct 30, 2014

Fredricks would like to know more about the hydraulics of the fish lock. **ACTION ITEM: Cordie will get more information about the volume.** Lorz and Fredricks recommended including the repair of the 36” valve in the Back-up AWS work. They will bring it to the NWP FFDRWG on 5 February.

MCNARY DAM

11. **15MCN002 – New Section 2.1 Work Near Fishway. *Approved.*** Posted Dec 29, 2014.

Fredricks asked that the change form reflect the final language approved by the Task Group.

12. **15MCN003– Table MCN-9 Spill Patterns. *Approved.*** Posted Nov 12, 2014.

13. **15MCN004– Warm Water Ops Temp Review. *Approved.*** Posted Dec 9, 2014.

Kiefer asked what the research impacts might be. Setter said there isn’t much going on there so impacts should be minimal.

14. **15MCN005– South Shore AWS Ops. *Approved with the idea that future changes are likely.*** Posted Jan 20, 2015.

A new change form was created on 21 January. Few people had seen it so this was discussed in detail at the meeting. Comments jumped around so it’s best to review the new change form and review the audio for an accurate accounting of what was said and agreed to.

ICE HARBOR DAM

15. **15IHR001 –New Section 2.1 Work Near Fishway. *Approved.*** Posted Dec 29, 2014.

16. **15IHR003 – Turbine Unit Operation. *Approved.*** Posted Nov 3, 2014.

17. **15IHR004 – STS Operation. *Approved with changes. LMN language inserted into the IHR change form.*** Posted Nov 3, 2014.

Conder said NOAA would like to see STSs operating in a continuous mode rather than a stop/start mode. Conder said he liked the LMN language just a little bit better. NOAA would be fine with approving language that adopts LMN language. Conder would like to investigate further the option of running continuously. Bailey explained that the 120 mm requirement came from before 1994 and

was based on the swimming and avoidance ability of smolts. He said the thought was also that if screens didn't move as much then they wouldn't break down as often. Fredricks pointed out that BON and JDA have STSs that run continuous and have for decades. Lorz said STSs in continuous run mode are better for lamprey than stationary screens.

18. 15IHR005 – Backflush Orifices. *Denied.* Posted Nov 3, 2014.

Fone gave some background on the change form. The current required back-flushing seemed to be excessive. Setter explained that NWW is resistant to change. Conder suggested an automated system to help with the flushing. Bailey said he has similar concerns about an automated system as Fredricks has with PLC inspections, you don't know what is going on out there without being there. Fredricks said automated systems are pretty standard in the lower Columbia. He pointed out that BON was almost like the flagship with how the juvenile bypass system operates. BON orifices flush automatically several times a day. Fone said there is some automation in the channel since the orifices will close if elevations get too high. There is air available so it's just a matter of getting a program installed that will automatically flush the orifices. Setter suggested getting an automated system into AMRIP and getting it on the scoping list. She recommended using BON as an example since it has a functional back-flushing system.

LOWER MONUMENTAL DAM

19. 15LMN001 – New Section 2.1 Work Near Fishway. *Approved.* Posted Dec 29, 2014.

20. 15LMN003 – STS Operation. *Approved.* Posted Nov 3, 2014.

Spurgeon informed FPOM that the STS mesh manufacturer is no longer producing mesh so a new vendor was found. Time will tell if the mesh will be as durable.

LITTLE GOOSE DAM

21. 15LGS003 – New Section 2.1 Work Near Fishway. *Approved.* Posted Dec 29, 2014.

22. 15LGS004 – Cold Weather Definition. *Approved.* Posted Dec 29, 2014.

LOWER GRANITE DAM

23. 15LWG001 – New Section 2.1 Work Near Fishway. *Approved.* Posted Dec 29, 2014.

APPENDICES

24. 15AppB001 – Truck Transport Minimum #s. *Pending.* Posted Dec 9, 2014.

Wagner called in to discuss. What would not have been transported if this had been the operation in previous years? More analysis is needed. Setter said it comes down to whether or not this is still perceived as a benefit when numbers are low. **ACTION ITEM: Wagner will request NOAA Montlake to look at the data to support the change form.**

25. 15AppB002 – Columnaris Operations. *Approved with changes.* Posted Dec 19, 2014.

26. 15AppG001 – BON AFF Picket Lead Operations. *Approved with changes.* Posted Nov 10, 2014.

NOAA is fine with changes for when temperatures are less than 70°F. Fredricks did not like the doubling of fish when temperatures are above 70°F. Changes to 1.4.5.a-c were rejected. Whiteaker and Lorz were in agreement with 1.4.5.d and 1.4.5.e.

Changes include: modifying/adding 1.4.5.d and 1.4.5.e.

27. 15AppI001 – DWR Unwatering Protocol. *Approved.* Posted Jan 7, 2015.

28. 15AppL001– Avian Monitoring & Deterrence Plans. *Approved.* Posted Oct 9, 2014.

POTENTIAL CHANGE FORMS / OTHER TOPICS FOR DISCUSSION

29. Overview. Fredricks would like to see new language added to Section 2.5. “FPOM Coordination” regarding *Memos for the Record* (MFRs) with a defined review period for FPOM comments, particularly on actions taken to remedy incidents of fish injuries or mortalities. Also, Planning and Operations Division activities should be required to develop an MOC. Currently, the FPP just mentions “coordination effort” but doesn’t specify process.

30. BON. Additional trigger during split flows to operate more PH1 units.

31. Appendix A – Special Operations & Studies. Draft posted for review Jan 20, 2015 – NWW complete, NWP still pending. NOAA has noted several areas in the draft where coordination procedures (including anticipated biological effects of actions) could be improved and will likely be making recommendations in those areas once the draft is complete.

Fredricks said his concern is that some items in Appendix A need additional coordination. He said some items in Appendix A appear to be normal operations. He feels Appendix A should really be about research and the special operations associated with research. NOAA needs MOCs for many of the activities listed in the NWW Appendix A. This provides better accountability and tracking to make sure there is BiOp coverage. FPOM discussed Appendix A further. Wright developed a new Appendix A template for everyone to fill out for items included in Appendix A.

Setter said she can go back and explain that items in Appendix A should be research and what isn’t research should have its own MOC or, if it is routine, it needs to be included in the main body of the plans.

32. Appendix B – Transport Plan. NOAA will provide some edits at the January 22nd mtg.

33. Appendix C – Load Shaping Guidelines. Needs to be updated and aligned with project-specific sections on turbine ops.

34. Appendix J – Smolt Facility Protocols. NOAA has identified the need to include in the FPP the specifics of juvenile fish condition monitoring and data reporting for LGS and LMN before initiation of transport. Each project should specify the frequency of condition monitoring, target sample size, duration of sample collection, and how data will be transmitted and reported (if normal smolt monitoring is not occurring for whatever reason). The logical place to specify these requirements is in Appendix J – Smolt Monitoring Protocols, which is now limited to some specific facility protocols for the lower Columbia River projects only. The rationale and mechanics for this FPP change should be discussed at the January 22 FPP meeting. We realize that discussions for projects other than Little Goose and Lower Monumental may take some time and these may be added to the FPP after release of the 2015 plan.

Wagner said FPAC is considering a review of the Smolt Monitoring Program to see if there are changes needed. FPC provided written procedures currently in place at each Project. The only proposed change made thus far has been to increase monitoring at LMN and LGS so they are more in-line with the monitoring occurring at MCN. Setter asked if river conditions were considered or if the desire is just to get hands on more fish. She suggested the monitoring at those two projects was based on the need to monitor fish condition as it relates to river conditions. Wagner said every fifth day potentially allows too much time to pass before a problem would be seen. Wagner said FPAC would do some analysis to see how often problems are seen at LMN and LGS. Fredricks said the intent of the BiOp RPA is to make sure the fish bypass systems are safe for fish passage. Fredricks would like to establish a minimum amount of monitoring required. If NWW or NWP would like to monitor more frequently, they are welcome to do so.

FPOM made it very clear that this is not an attempt to dictate what the Smolt Monitoring Program is. **Fredricks recommended a task group to further discuss Smolt Monitoring needs. Lorz suggested outlining what is happening now and then work towards further refinement later.**