

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 13 March 2014 FPOM meeting.

The meeting was held in the McNary Dam Theater meeting. In attendance:

Last	First	Agency	Office/Mobile	Email
Bailey	John	NWW		John.c.bailey@usace.army.mil
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Dugger	Carl	NWW-MCN		Carl.r.dugger@usace.army.mil
Fredricks	Gary	NOAA	503-231-6855	Gary.fredricks@noaa.gov
Fone	Ken	NWW		Kenneth.r.fone@usace.army.mil
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Hausmann	Ben	NWP-BON	541-374-4598	Ben.j.hausmann@usace.army.mil
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Weis	Richard	NWW-LGS		Richard.w.weis@usace.army.mil
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Baus, Conder, Hevlin, Kostow, F. Mensik, Meyer, Petersen, called in.

March birthdays include: No known March birthdays.

HAPPY BIRTHDAY!

1. Decisions made at this meeting.

1.1. February meeting minutes were approved.

- 1.2. 14BON04 spill gate inspection MOC coordination. The gate inspections have been delayed due to involuntary daytime spill. **FPOM said do not inspect Bay 18 and Bay 1 at the same time. Hausmann will get the bays scheduled for earlier in the schedule.**
- 1.3. JDA fish pump #2. Grosvenor reported the coil has been replaced and spare coils were purchased. As a result of the fish pump coming back, JDA wants to coordinator a night outage to re-deploy the floating orifice gates. **FPOM says go ahead and do it.**
- 1.4. 14TDA03. East deck work. FPOM concurred with the work being completed as coordinated. TDA Fisheries will monitor fish activity at the fish count window. Wills could not agree with a no effect decision. It was clarified that the Project will monitor to see if there is a negative impact.
- 1.5. 14JDA03. VWW repair. Grosvenor reported JDA planned for a day outage but had a pump failure on pump 4. JDA would now like to go forward with a night outage on 14 March. Fredricks asked what flow could be expected from three pumps. FPOM still felt the repairs could be completed during the day with three pumps. The weir should be pulled in the early morning and re-installed later in the afternoon. No bull trout issue.

2. The following documents were provided or discussed. Documents may be found at <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

- 2.1. *Agenda, Fish Passage O&M Coordination Team.*
- 2.2. *Cooling Water Strainers Lamprey Counts.xls.*
- 2.3. *Coordination/Notification Forms (NWW/NWP)*
- 2.4. *FPP change forms. (NWW/NWP)*
- 2.5. *BPA outages.*
- 2.6. *Avian Task Group meeting documents*

3. Action Items

3.1. NWW Action Items.

- 3.1.1. [Feb 14] LWG Unit 1 return to Kaplan. **ACTION:** Setter and/or Bettin will find out why new windings are needed at LMN and provide a detailed schedule for LMN and LWG. **STATUS:** *Setter reported on the schedules.*
 - 3.1.1.1. *LMN Bridge crane will be completed in January 2015 with the U1 rehab starting April 2015 and governor work starting in July 2015.*
 - 3.1.1.2. *LWG Bridge Crane repair will be completed by July 2015 with U1 rehab beginning in September 2015 and governor installation starting August 2015. Setter said the windings need to be replaced because they are 40 years old and past their expected life. Conder commented that the windings do not appear to delay the schedule.*
- 3.1.2. [Mar 14] LMN and LWG schedules. **ACTION:** Post the LMN and LWG schedules to the FPOM website. **STATUS:** *schedules were emailed to FPOM.*
- 3.1.3. [Feb 14] 14LGS002. **ACTION:** Smith will send the ETS report to Mackey so she can post it to the FPOM website. **STATUS:** *completed.*

3.2. NWP Action Items.

- 3.2.1. [Jan 14] BON Forebay elevation and FPP compliance. **ACTION:** Klatte will find the report and figure out the appropriate elevation from those reports. **STATUS:** *Klatte received the information but hasn't had time to look at it yet.*
- 3.2.2. [Feb 14] JDA Avian array. Klatte suggested SCT review the array and see if the Region supports a possible re-design. **ACTION:** SCT will discuss this next week. **STATUS:** *completed. Hevlin reported that the avian array was kicked back to FPOM. Grosvenor said JDA is working to get a contract in place to get wires replaced prior to 10 April.*
- 3.2.3. [Feb 14] Water Management Plan. **ACTION:** RCC will ensure the Water Management Plan matches the FOP. **STATUS:** *RCC made best efforts to ensure the 2014 WMP matched the 2014 FOP, unfortunately the 2014 WMP was finalized prior to the completion of the 2014 FOP. In order to address this issue that was raised at the last FPOM meeting regarding discrepancies between the WMP and the FOP Baus added a footnote to the WMP acknowledging this issue and clarified if there were inconsistencies between these two documents operational guidance in the FOP would take precedence. Please contact Baus if you have any additional questions.*

3.3. Action Items completed or to be discussed later in the agenda.

4. Updates

4.1. NWW Updates

- 4.1.1. MCN Power outage impacts related to passage operations. Setter requested this update be removed after the March meeting. Dugger offered to give people a tour.
- 4.1.2. MCN Fish Pump 2 status. This update is no longer needed.

4.2. NWP Updates

- 4.2.1. BON Unit 11 update. Hausmann reported still plan on December 2014.
- 4.2.2. BON Fish Unit outages. F1 will return the week of 17 March.
- 4.2.3. BON B2CC avian lines. Cork line below the B2CC broke. Contractor out to give an estimate for a new line on 13 March. BON will replace the line and then USDA will re-install the avian lines prior to 10 April.
- 4.2.4. BON T11 outage in 2016 heads up.
- 4.2.5. BON spill gate inspection MOC coordination. Hausmann decided to just take responsibility to make things easier. Fredricks stressed the need to have advanced notice.
 - 4.2.5.1. The gate inspections have been delayed due to involuntary daytime spill. **FPOM said do not inspect Bay 18 and Bay 1 at the same time. Hausmann will get the bays scheduled for earlier in the schedule.**
- 4.2.6. BON flushing flow for bay 17. Hausmann reported Bay 17 dropped 12' and has been taken out of service. The bay will be dogged off at two dogs for the Spring spill season. The flushing operation coordinated in MOC 14BON05 was not completed.
- 4.2.7. BON Kelt Counts. 15 Steelhead observed passing up through 0800 on 12 March BON JMF. Two kelt for two consecutive days has been met as well.
 - 4.2.7.1. PSMFC was awarded the separator bar monitoring contract for 2014.

- 4.2.8. NWP winter maintenance work completed. TDA provided a handout. Hausmann gave an update on the maintenance- diffusers along the PH1 collection channel have been looked at and repaired/maintained.
- 4.2.9. JDA fish pump #2. Grosvenor reported the coil has been replaced and spare coils were purchased. As a result of the fish pump coming back, JDA wants to coordinate a night outage to re-deploy the floating orifice gates. **FPOM says go ahead and do it.**

4.3. Research/FFDRWG updates. Approval letters, permits, etc located at www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html

- 4.3.1. FGE pre-con occurred on 11 March. Going to install rebar for flow control plate in 15A. U15 will return to service on 4 April. BON has not yet made the solid plate for the VBS.
- 4.3.2. AWS trashrake ATR is complete. Mods will occur in the summer with a follow up ROV inspection.
- 4.3.3. AFF dry inspection of the modifications on 17 March. The AFF will be watered up by 27 March for velocity tests.
- 4.3.4. CRITFC AFF PIT tag detector. Rerecich provided the update. CRITFC and BioMark would like to install the detector the first week of April. This is after the 27 March water up date. Rerecich asked the detector be installed by 24 March. BioMark may not be able to make that date. The detector install may be delayed a year unless BON and CRITFC can coordinate an AFF dewatering. Lorz asked about dewatering to allow the detector installation after 27 March. BON said they do not want to dewater the AFF again.

4.4. RCC update.

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)
LWG	111	81	77
MCN	255	199	208
BON	301	226	228

4.5. Lamprey updates.

- 4.5.1. BI wetted wall. Zorich reported the wetted wall was removed. Removal was mainly due to the coordinated design v. actual product. May try to test in some other locations.
- 4.5.2. CI exit mods. AWS LPS in the works. Working to make the counter more accurate by adjusting the exit pipe. Need to have the spillway tagged out to complete the work.
- 4.5.3. LFS pump install. The pump install has been delayed. The type of I-beam that was installed (sloped I) will not work with the current trolleys (designed for flat I which was requested). Trolley wheels are being shaped to accommodate slope, there are several trolleys for the pump and associated tubing.
- 4.5.4. Dugger reported the MCN south entrance lamprey structure is completed and ready for lamprey passage.

4.6. Avian. Task Group will meet at MCN after the March FPOM and the JFF bypass tour on 13 March.

4.7. Critical Infrastructure.

- 4.7.1. Cordie talked about the TDA items on the UFR list. Included in that list are: TDA spill bay 9 trunnion pin; TDA spillway wire ropes; TDA

spillway crane; as well as nine additional items. Cordie brought up the data mining results which seems to suggest survival is good both inside and outside the wall. Klatter cautioned that the data is quite preliminary. Cordie said if the preliminary data holds true, he is concerned it may make it more difficult to prioritize the UFRs of particular concern for fish. Fredricks said there hasn't been a study for survival outside the wall. Klatter stressed that the spillway ropes, trunnion pin, etc are still very high Fish priorities and will remain so. Fredricks said the spillway is THE juvenile passage route at TDA.

4.7.2. JDA avian wires. Working on the contract.

4.8. BPA updates.

5. Coordination/Notification forms (need concurrence).

5.1. 14TDA03. East deck work. Cordie explained that the forebay deck is leaking into the electrical gallery, which has the controls for the east ladder exit weirs. The goal was to have this work completed in February but the weather did not allow for this. The work is now planned for later this week and next week. Aside from the comment from Cordie about the 100' buffer, Fredricks didn't have an issue with work. **FPOM concurred with the work being completed as coordinated. TDA Fisheries will monitor fish activity at the fish count window. Wills could not agree with a no effect decision. It was clarified that the Project will monitor to see if there is a negative impact.**

5.2. 14JDA03. VWW repair. Grosvenor reported JDA planned for a day outage but had a pump failure on pump 4. JDA would now like to go forward with a night outage on 14 March. Fredricks asked what flow could be expected from three pumps. **FPOM still felt the repairs could be completed during the day with three pumps. The weir should be pulled in the early morning and re-installed later in the afternoon. No bull trout issue.**

6. **Fish Passage Plan:** The Draft 2014 FPP and Change Forms website is at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2014/changes/index.html>. Below is the list of change forms that were not approved for 2014.

6.1. 14BON001. *Pending.*

6.2. 14AppD003. *Pending.* NOAA requested protocols rather than a list of facilities.

6.3. 14AppG003BON. *Pending.* Need more discussion about the picket leads with BON, NWP, CRITFC, NOAA, etc, in a separate meeting.

6.4. *NEW*14LWG007 LWG adult spill. Hevlin would like to have this pattern available in the event anyone notices an adult passage delay. There are three options. Setter said NWW would like to add some temperature criteria as well. FPOM will continue to work on this change form and discuss further in April. Laughery provided a handout with varying river flows. Kiefer said he is reluctant to come up with a trigger now since it could lead to not acting soon enough or acting too soon when action isn't needed. Setter said she would like to know what might trigger a response from FPOM so NWW could be more prepared. Lorz asked if it is even possible to do anything this year. Setter said the Project will have the same options available as last year. There is no expectation that mitigation this year will be different than last year.

7. Task Group Updates.

7.1. Avian task group. Chaired by NWW. Team members include: Cordie, Dugger, Fone, Fredricks, Hausmann, Madson, Setter, Skidmore, Trachtenberg, Zorich, and

Zyndol. **Next meeting is 13 March, after FPOM and the JBS tour at MCN.** Setter said there would be a new FPP appendix that goes Project by Project and what each does for hazing and potential triggers. The team may have speakers come in to talk about how they address avian issues.

- 7.2. Sea Lion task group. (Stansell). Team members include: Conder, Cordie, Fredricks, Hausmann, Mackey, J. Skidmore, Whiteaker, Van der Leeuw. Hazing is occurring at BON.
- 7.3. AFF mods (Rerecich). Team members include: Benner, Fredricks, Lorz, Mackey, Meyer, Rerecich, Royer, Stephenson, Traylor, and Whiteaker. Will meet at the AFF on 17 March. Appendix G will be modified to reflect the recommended raking level and the recommended water elevation.

8. Other

- 8.1. Wills asked about the change in Table 1 in the FOP. Setter said she asked NWD and was told the document was released through RIOG and questions should be directed back to RIOG. Bettin tried to offer some explanation. He said the table was updated to reflect actual operation.
- 8.2. D. Coleman is the MCN OPM. He has wanted to attend a FPOM meeting and took the opportunity to attend since we were meeting at MCN this month. He talked about the current issues at MCN and the continual need for adequate funding to meet the maintenance needs. Setter added that Coleman was instrumental in getting funding for fish pump #2. Fredricks commented on the recent report on the north shore screen replacement. The issue is that the screens were replaced in-kind and did not meet NMFS criteria. The study was supposed to show that the screens did not impact fish. Dugger said the small fish were probably shad; Fredricks noted the report did not address that very well. Fredricks said he would also like to talk about the TSW. Bettin thanked Coleman for figuring out how to use the crane to move debris out of the forebay. He also said early season debris spill occurs at other locations so it isn't out of the question that it could at MCN. Bettin asked why the TSW isn't open now (MCN is currently spilling). Dugger said there is a notification period.
- 8.3. Fredricks said he is going to submit a new change form for the TDA split flows operation. He asked if FFU has been tasked with determining fish/water density calculations for TDA; he thought they had done the calculations for BON. Fredricks asked if Caudill could look at delay. Rerecich said he would talk to Caudill as soon as he returns from Europe. Fredricks stressed that we saw an issue in 2013 and the run prediction is larger for 2014 so we need to look at this now. The meeting will be held after the 10 April 2014 FPOM.