

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 09 March 2017 FPOM meeting.

The meeting was held at the PSMFC office in The Dalles, OR. In attendance:

Last	First	Agency	Email
Bailey	John	NWW	John.C.Bailey@usace.army.mil
Benner	Dave	FPC	dbenner@fpc.org
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Grosvenor	Eric	NWP-JDA	Eric.Grosvenor@usace.army.mil
Hausmann	Ben	NWP-BON	Ben.J.Hausmann@usace.army.mil
Hevlin	Bill	NOAA	Bill.Hevlin@noaa.gov
Hockersmith	Eric	NWW	Eric.E.Hockersmith@usace.army.mil
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Tidwell	Kyle	NWP	Kyle.S.Tidwell@usace.army.mil
Trachtenbarg	David	NWW	David.a.Trachtenbarg@usace.army.mil
Wertheimer	Robert	NWP	Robert.H.Wertheimer@usace.army.mil
Wharf	Don	PSMFC	DLWharf@psmfc.org

On the phone: Hausmann, Hevlin, Johnson, Keifer, Meyer, Peterson, Richards, Tidwell, Trachtenbarg, Wertheimer and Wharf.

Documents may be found at: <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

1. Decisions Made at this meeting

- 1.1. February meeting minutes were approved.
- 1.2. MOC/MFR forms
- 1.3. FPP Change forms
 - 1.3.1.17TDA004 – March Sluiceway – Approved

- 1.3.2.17TDA005 – Sluiceway Involuntary Spill – Approved plus add a line to Table 4.
- 1.3.3.17BON008 - Delete PH2 Mid-Range - Approved
- 1.3.4.17OVE002 – MOC Responsibilities - Approved

2. Action Items

2.1. NWW

- 2.1.1.[Mar 17] **Temporary LMN and LGS PIT Detectors** ACTION: Morrill will find out if detections at one project are more important than the other and what timeframe is most significant.
- 2.1.2.[Feb 17] **MCN FOG maintenance** ACTION: Johnson will write an MOC to coordinate swapping the FOGs in March. *Status: The swapping of the FOGs will not occur in March but the new date is still unknown. Six have been repaired and six more to do.*

2.2. NWP

- 2.2.1.[Mar 17] **BON B2 Orifices** ACTION: Hausmann will check into the funding and labor code for the reprogramming.
- 2.2.2.[Feb 17] **Forebay Temperature Profiles** ACTION: Lundell will revise the proposal based on the discussion. *Status: Pending till April.*
- 2.2.3. [Jan 17] **BON Staff Gauges** Action: Hausmann works with Kovalchuk about price, design and coordinate a dive crew to clean in the winter to standardize staff gauges. *Status: Hausmann sent photos and PR details to Peery. The cost is per pound of metal not by number of staff gauges. Peery needs dimensions. Hausmann will forward all details to Kovalchuk and Peery. Status: Hausmann has cost estimate but not a design template. The company that made them may have the design on file. Hausmann will look at one that is not installed, measure it and send the dimensions to Chris Peery.*

2.3. Completed Action Items or to be discussed later in the agenda

- 2.3.1.[Feb17] **LMN Picketed Leads Removal** ACTION: Morrill will summarize the need for the PIT TAG data and send to Setter. *See 3.1.2 and Count Station Pickets FPP change forms.*
- 2.3.2.[Feb 17] **17BON01 MFR CI ROV** ACTION: Hausmann will put together a list of options with cost and impacts on February 13. *Status: Completed.* See 17BON03 below.

3. Updates

3.1. NWW

- 3.1.1.Upcoming maintenance/construction/research activities.
 - 3.1.1.1. FPOM outages schedule – LWG Unit 1 is still scheduled to return to service at the end of May but requests have been made to push it up to the end of April. Unit 1 is critical by June. FPOM members stressed that they want the unit repaired correctly even if it takes a little longer. Unit 2 (the fixed blade unit) will return to service in next couple of weeks. Setter will schedule a tour of unit 1 LWG for any interested parties after the Preseason Coordination meeting on March 21. MCN- the orifice traps will happen next year not this year.
 - 3.1.1.2. Wasco PUD testing impact on WAFL (Martinson) [Handout: Results of the Commissioning Test] – Johnson reported that staff completed inspections during the testing and the testing went well. All testing is now complete.
- 3.1.2.Temporary LMN and LGS PIT Detectors – Morrill talked to Joe Bumgarner and the PIT data is important. There were over a hundred detections in the month of November. **ACTION: Morrill will find out if detections at one project are more important than the other and what timeframe is most significant.** If the count station picket leads are removed, the PIT readers would miss from 1 Nov – 31 March. NWW submitted FPP change forms to remove count station picketed leads. FPOM requests that Bumgarner attend the next meeting to explain why this data is important.

3.2. NWP

3.2.1. Upcoming maintenance/construction/research activities.

- 3.2.1.1. BON FGE Mods. The final plate installation is scheduled 16-17 March. The research equipment was installed on the B2CC 7 March. Unit 12 trash rack was completed on 8 March. Unit 14 is scheduled for 10 March, unit 15 plate inspection on March 22 and the remaining trash racks will be completed throughout the rest of March.
- 3.2.1.2. BON B-Branch erosion (16BON107) – The work is completed but the survey results have not yet been provided.
- 3.2.1.3. BON B2 Orifices – LED bulbs and shrouds have been replaced; reprogramming the air burst is the only thing left. The project is waiting on funds before scheduling the work. If adding the additional air bursts improves the jet then the project would evaluate the wear and tear on the system. Rerecich said the money should be there. **ACTION: Hausmann will check into the funding and labor code for the reprogramming.** This will be on the agenda for FFDRWG.
- 3.2.1.4. BON LPS construction activities (Walker)–WA shore LPS and minor modifications were completed as planned. Two main issues identified by NOAA/USFWS during site visit were corrected by the contractor (i.e., extended entrance ramps to fishway floor and added additional anchors to entrance ramp sides to fix outward bowing). The contractor also went through and checked for sharp edges throughout the LPS and minor mods prior to watering up the ladder. BON Brad and CS Islands LPS and Minor Mods construction is planned for IWW 17/18. All current construction activities are planned for the IWW period and should not require any additional FPOM coordination.
- 3.2.1.5. TDA AWS Construction (16TDA10) – East Fish Ladder was watered up on 7 March and back in full FPP compliance. A new issue came up for the remaining work schedule. The project would like to install a frame for the pier noses in the forebay and leave the frames in the water to use next winter. Cordie will find out details and write up an MOC. There was a glitch with the teletype for the AWS extension MOC. The project spilled several days after and required a new teletype to stop spilling.
- 3.2.2. BON PIT tag room – The new room might require a UFR with BPA. Bettin said that there is an agreement between BPA/COE for the PIT TAG program to extend the current MOA.
- 3.2.3. JDA-N SKF alarms on pumps – New parts have been ordered. The project will try the fix on one pump and if it works, then purchase the part for the other pumps. The repair is expected in April.
- 3.2.4. JDA-S fish pumps – Mechanics inspected pump #2 and the guide bearing wear level was acceptable. It should last another season. The guide bearing has been repaired on pump # 1 but the long term is uncertain. The project is working on a charter to add this to the large cap program. Without all three pumps, the project struggles to meet criteria at all three south fish ladder entrances under all tailrace elevations. The AWS is still leaking into the turbine room.

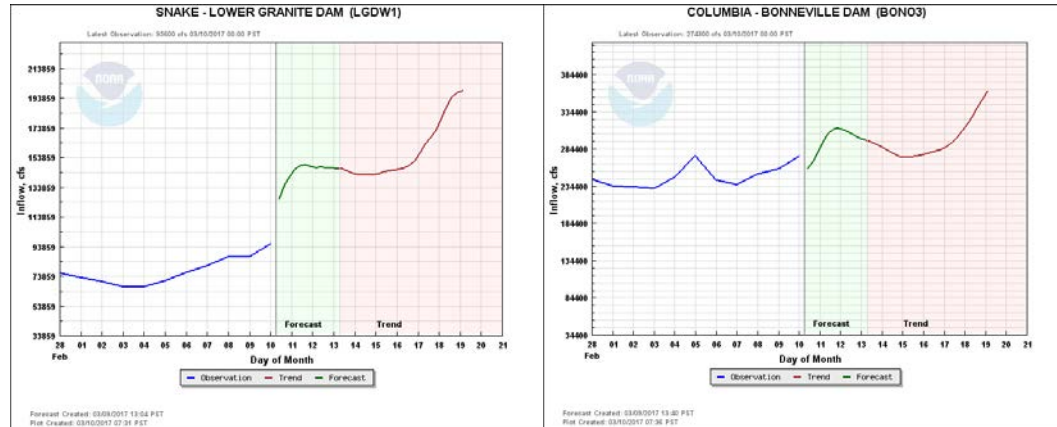
3.3. Research/FFDRWG updates. www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html

- 3.3.1. NWP FFDRWG – Next meeting is 6 April.
- 3.3.2. NWW FFDRWG – Next meeting is 24 May.

3.4. RCC update

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	90	147	181	100 (3/9) / 194 (3/18)
MCN	242	258	287	225 (3/9) / 307 (3/18)
BON	253	297	319	258 (3/9) / 318 (3/18)

Table 1. RCC flow forecast



3.5. BPA update – No upcoming outages that are new.

3.6. Fish Count Program – The target date for full functionality on the FPC website is April 1. The same queries and functions will be on the new website. If any data needs arise, contact FFU. The USACE website redirects to the FPC website. No press release has been sent out. TDA and JDA are ready to send temperatures to the FPC website. BON has ordered the hobos but doesn't know when they will be here. TDA and JDA report weekly.

3.7. Pinniped update – APHIS started hazing seven days a week; boat based hazing is three days a week. State agencies will be on site starting 13 March; trapping and removal will be Tuesdays and Wednesdays. There are three Stellar and no California sea lions presently in the tailrace. The daily average has been less than 15 animals for the last two weeks.

3.7.1. CRITFC hazers – CRITFC hazers started last week and are present three days a week. NWP would like to use CRITFC hazers instead of APHIS to save money which can be used to increase monitoring. CRITFC does boat hazing and APHIS does dam hazing. NOAA is reluctant to give up dam hazing. According to Stansell's report, entrance hazing is effective. The language in the LOA is vague and interpretations vary about the presence of hazers for removing a sealion. The state agencies consider the current situation with seven day a week coverage acceptable but the COE would like to know how much hazing is necessary. The current contract is eight hours a day which translates into about 6 hours of actual hazing. There is a possibility of using a combination of CRITFC and AHPIS hazers to save some money. All parties will consider this topic and discuss next month.

3.8. Lamprey update – FFU is getting ready for the RM&E testing season and staffing up for video monitoring review. Walker is scheduling a meeting about the lamprey trap.

3.9. Avian update

3.9.1. TDA (Cordie) – The hazing contract has been approved so there will not be any delay this year. The lines will be installed the first week of April. BPA needs two days to coordinate a spillway outage. TDA has a lot of gulls and new deterrents may have to be planned for

the next couple of years. Miller Island continues to harbor many gulls and the ownership is still in question.

3.9.2.JDA (Grosvenor) – The contractors will restring 15 avian lines and the contracting office is still trying to get nine additional lines added. This work will require a spillway outage for installation of a couple of the lines. The funding may have dropped for hazing; Grosvenor will check.

3.9.3.MCN

3.8.3.1. Pelican Hazing – NWW and AHPIS agreed to haze pelicans this year. There will be no lethal take. NWW followed up on the permits required and found that this action fits with the current job duties in the APHIS contract. WDFW had taken exception; indirect hazing of pelicans is fine but not direct hazing. WDFW needs data on the number of pelicans around the outfall to show that direct hazing would be beneficial. Without data, WDFW is reluctant to give the okay to direct hazing. The sprinkler system has changed but the power of the jet is reduced. The water cannon can't be aimed at specific birds. There is no specific monitoring of the outfall right now just daily bird observations. COE will come up with a specific plan with data from the weekly reports about how they will deter pelicans and WDFW will review it. This will be discussed again next month.

4. Coordination/Notification forms (need concurrence/discussion)

4.1. 17LGS01 Ladder Outage Extension – Completed

4.2. 17LGS02 - Completed

4.3. 17JDA02 MOC SFL Outage Extension – Completed; the ladder returned to service a day early.

4.4. 17TDA06 MOC AWS Extension (name changed from 17TDA05 to 17TDA06) Completed

4.5. 17TDA07 MFR Railroad Removal Sawcut Plan – The work did not happen as scheduled. The rail was cut half way down the powerhouse. A new MOC will be sent out.

4.6. 17TDA08 MFR CS Lamprey Mort – No comments

4.7. 17BON02 MFR Erosion Repair Extension- No comments

4.8. 17BON03 MOC CI Entrance Repairs- The entrance was dewatered Monday. All three problems have been fixed and CI was re-watered up 09 March. Crews removed 30 steelhead.

4.9. 17BON04 MOC FGE – Discussed under 3.2.1.1

4.10. 17BON05 MOC B2CC Closure – The seal on the PIT Detector was not fixed because of the heavy rain. Wharf commented on the importance of fixing the seal before a PIT tag gets stuck and the reader will only read that one tag. The B2CC will shut down for the avian lines installation so the project will schedule it them concurrently. Members were not aware that the installation of avian lines would shut down the B2CC for two days. Fredricks doesn't find the lines as important as CRITFC does. However, waiting on the installation of lines would just push the closure of the B2CC into smolt passage season. With the B2CC and spill going, kelts have been passing BON. FPOM wants this work done as soon as possible. Avian wires are scheduled for next week on Wednesday. Hausmann will check on the possibility of Monday for the seal work and avian lines. The problem is the weather. *Email update: the project could not accommodate Monday due to lack of staff available.* Wertheimer discussed the passage effectiveness of the B2CC vs Spill. He said that the B2CC was 16 times as effective at passing kelts as the spillway so it would take 80 Kcfs of spill to equate to the 5Kcfs of the B2CC. Bettin mentioned the modifications that have happened since the testing period and the lack of flow at PH1 during the testing period. He feels as though the calculation is not accurate. The kelt trigger has not been hit yet – at 12 kelts.

5. Fish Passage Plan: The Current 2016 FPP and Draft 2017 FPP Change Forms are online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/>.

6.1 Pending FPP Change Forms.

5.1.1.17LWG007 – Count Station Pickets

5.1.2.17LGS006 – Count Station Pickets

5.1.3.17LMN006 – Count Station Pickets

5.1.4.17IHR006 – Count Station Pickets

5.1.5.17MCN006 – Count Station Pickets

5.1.6.17BON004 - Ladder Temperature Monitoring. PENDING. Hausmann will revise the figures and resubmit for FPOM. *Status: Hausmann will send in entrance and exit locations today.*

5.2. New FPP Change Forms

5.2.1.17TDA004 – March Sluiceway – Approved

5.2.2.17TDA005 – Sluiceway Involuntary Spill – Approved plus add a line to Table 4. Bettin will create a change form for BON B2CC guidelines.

5.2.3.17BON008 - Delete PH2 Mid-Range - Approved

5.2.4.17OVE002 – MOC Responsibilities - Approved

6. Task Group Updates.

6.1. BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team: Bettin, Ebner, Hausmann, Mackey, Rerecich, Wright. Date for test selected?

The next meeting will be 13 April at McNary Dam with a 10:00am start time.