

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 08 November 2017 FPOM meeting.

The meeting was held in the 5th Floor Conference Room, CRITFC office, Portland, OR. In attendance:

Last	First	Agency	Email
Baus	Doug	NWD-RCC	Douglas.m.Baus@usace.army.mil
Bettin	Scott	BPA	swbettin@bpa.gov
Carrothers	Brett	NWP - FFU	Brett.Carrothers@usace.army.mil
Conder	Trevor	NOAA	trevor.conder@noaa.gov
Cordie	Robert	NWP-TDA	Robert.P.Cordie@usace.army.mil
Derugin	Andrew	NWP-BON	Andrew.G.Derugin@usace.army.mil
Fredricks	Gary	NOAA	Gary.Fredricks@noaa.gov
Grosvenor	Eric	NWP-JDA	Eric.Grosvenor@usace.army.mil
Hevlin	Bill	NOAA	Bill.Hevlin@noaa.gov
Hockersmith	Eric	NWW	Eric.E.Hockersmith@usace.army.mil
Johnson	Bobby	NWP	bobby.johnson@usace.army.mil
Kiefer	Russ	IDFG	Russ.kiefer@idfg.idaho.gov
Kovalchuk	Erin	NWP	Erin.H.Kovalchuk@usace.army.mil
Lorz	Tom	CRITFC	lort@critfc.org
Mackey	Tammy	NWP	Tammy.m.mackey@usace.army.mil
Morrill	Charlie	WDFW	Charles.Morrill@dfw.wa.gov
Peery	Chris	NWW	Christopher.A.Peery@usace.army.mil
Peterson	Christine	BPA	chpetersen@bpa.gov
Philbrook	Cindy	NWW	Cynthia.M.Philbrook@usace.army.mil
Richards	Natalie	NWP	Natalie.A.Richards@usace.army.mil
Scott	Shane	NWPA	Shane@sscotttandassociates.com
Setter	Ann	NWW	Ann.l.setter@usace.army.mil
Sullivan	Leah	BPA	lssullivan@bpa.gov
Swank	David	USFWS	David_Swank@fws.gov
Warf	Don	PSMFC	DLWarf@psmfc.org
Zorich	Nathan	NWP- FFU	Nathan.a.zorich@usace.army.mil

On the phone: Baus, Hevlin, Johnson, Kiefer, Morrill, Philbrook, Richards, Scott, Swank and Warf.

1. Final decisions made at this meeting.

- 1.1. October meeting minutes were approved.
- 1.2. 17TDA25 MOC Dual Ladder Outage – FPOM concurred.
- 1.3. 17TDA27 MOC TDA AWS Commissioning – FPOM concurred.
- 1.4. 17TDA20 MOC AWS – FPOM concurred with of the diving extension as long as there was no grouting and BPA needed to confirm that they could support the forebay restriction.
- 1.5. 17BON71 MOC Early BI and WA Shore March Outages – In order to minimize the outage, FPOM recommends removing the sand, looking at the flume and checking the AWS but skipping the weir caps. Email Update: BON maintenance cannot support a dual outage.

2. **The following documents are provided or discussed at this meeting. All documents can be found at: <http://pweb.crohms.org/tmt/documents/FPOM/2010/>.**

- 2.1. *Agenda, Fish Passage O&M coordination team*
- 2.2. *FPOM Outage Schedule (NWW)*
- 2.3. *Lower Granite Dam JBS Upgrade and Operational Outages*
- 2.4. *Coordination Forms (MOC/MFR)(NWW/NWP)*

3. **Action Items**

3.1. **NWW**

- 3.1.1. [Nov 17] **MCN - ACTION:** Johnson will write a list of work to be done on the collection channel rehab project.
- 3.1.2. [Oct 17] **LWG - ACTION:** Wright will look at the ability to pond water to continue spilling RSW or 2 stop deep spill. *Status: Pending.*
- 3.1.3. [Oct 17] **Wrap-up and discussion on Court ordered early start-up of by-pass facilities - ACTION:** FPP change forms are needed for JDA and LGS for the installations of the screens. *Status: Pending.*
- 3.1.4. [Sep 17] **17LWG22 NPE& NSE bulkhead closure – ACTION:** Setter will check to see if the work can start early. *Status: The contract will be awarded on 10 November. This will be updated next month.*

3.2. **NWP**

- 3.2.1. [Nov 17] **Dam Angling By-catch JDA – ACTION:** Morrill will follow up with WDFW managers.
- 3.2.2. [Oct 17] **TDA spill bays - ACTION:** Cordie will get a cost estimate for repairing spill bay 9. *Status: Engineers found a cost estimate of ~\$1 million per bay. It is on the MCIP list.*

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

- 3.3.1. [Sep 17] **BON MU17 OOS - ACTION:** Hausmann will write an MFR. *STATUS: Completed. See 5.7.*
- 3.3.2. [Oct 17] **17BON69 MFR Cascade Island Bridge De-rated.** ACTION: Hausmann will update the MFR with more description, details of the plan forward and potential short term measures. *Discussed under 3.2.1.2.*

4. **Updates**

4.1. **NWW**

4.1.1. **Upcoming maintenance/construction/research activities.**

4.1.1.1. **FPOM outages**

4.1.1.1.1. LGS - Unit 5 is scheduled to return in late June early July.

4.1.1.1.2. MCN – The juvenile collection rehab project may not be able to finish all the work during this IWW window. The screen cleaners will be done but some painting may get pushed off to next year. **ACTION: Johnson will write a list of work to be done on this project.**

4.1.1.1.3. DWR - Unit 3 is scheduled to return mid to late June.

4.1.1.2. LWG Operation and Outages for JBS and Turbines (17LWG25) (Hockersmith) – The project is installing the last set on the orifice installation. The blade angle change on unit 2 is coming up in December. Unit 1 is delayed longer due to an oil leak but the path forward/time line is not known.

4.1.1.3. LWG Spillway Baseline (17LWG24) – No update.

4.1.1.4. LWG NPE& NSE bulkhead closure early start (17LWG22) (Peery) – No update.

4.1.1.5. LWG Spillway gate seal (17LWG23) (Hockersmith) – Funding for this work has not yet been found. The estimate is between \$300-400K. If this project is not done, it

may interfere with the PIT TAG system work because the construction needs to be done without water leaking down. A stop log could be used but then the RSW would be hanging in the forebay. Conder stressed that the PIT detection system and ogee work is major priority. Bettin will look into the funding for the gate seal. The work will be in the next IWW. It is critical to start the work right after spill stops in 2018. The major cost is the specialized scaffolding for this repair not necessarily the material and labor. Combining the seal repair and the PIT TAG system in the same IWW period will save money but Conder expressed a lot of concern that if any problems arise then the schedule may be negatively affected.

- 4.1.1.6. MCN ESBS (17MCN17) – The COE will operate according to the FPP and not operate any units without screens. The gate closure devices are in the down position. Bettin suggested running the units above 1% to carry more capacity since the 1% restriction will have ended by 11 December.

4.2. NWP

4.2.1. Upcoming maintenance/construction/research activities.

- 4.2.1.1. BON T11 outage (17BON11) – Completed.
- 4.2.1.2. BON Cascade Island Bridge (17BON69) – The bridge cannot be repaired and must be replaced. The bridge needs to be completed by the 2018 IWW period. There have been several meetings about this issue with suggestions of using an army bridge but the subsidence issue may not allow it. The project will continue to update the MFR when new information is known.
- 4.2.1.3. TDA AWS (17TDA20) – Currently, the coordinated dive work in area #1 is being done at night. The form from last year was found to be in bad shape and the contractor is requesting additional day dive work from 12-20 November starting at noon. FPOM needs to know what work is being done. Cordie updated throughout the meeting as he received more information. The divers will perform hydro-blasting which is like a pressure washer under water, form the seal plate and place grout seal plate. Cordie will verify no grout placing or concrete. Bettin will check on forebay restriction for the diving. Three days and four hours of spill occurred from the vibration results.
- 4.2.1.4. TDA Fish Unit Breaker (17TDA12) – The contractor is already behind on the schedule. The contractor will need to commission the units after the project is over. However, the units will need to run for this test and the units can't be turned on until after 1 March. The test will need to be coordinated in March. The asbestos test did not occur.
- 4.2.1.5. TDA Transformer Schedule (15TDA08) – The schedule has been updated but there is no new impact for fish. T1 are units 1-4.
- 4.2.1.6. JDA Navlock contract will be awarded soon and will start construction in March.

4.2.2. Research/FFDRWG updates.

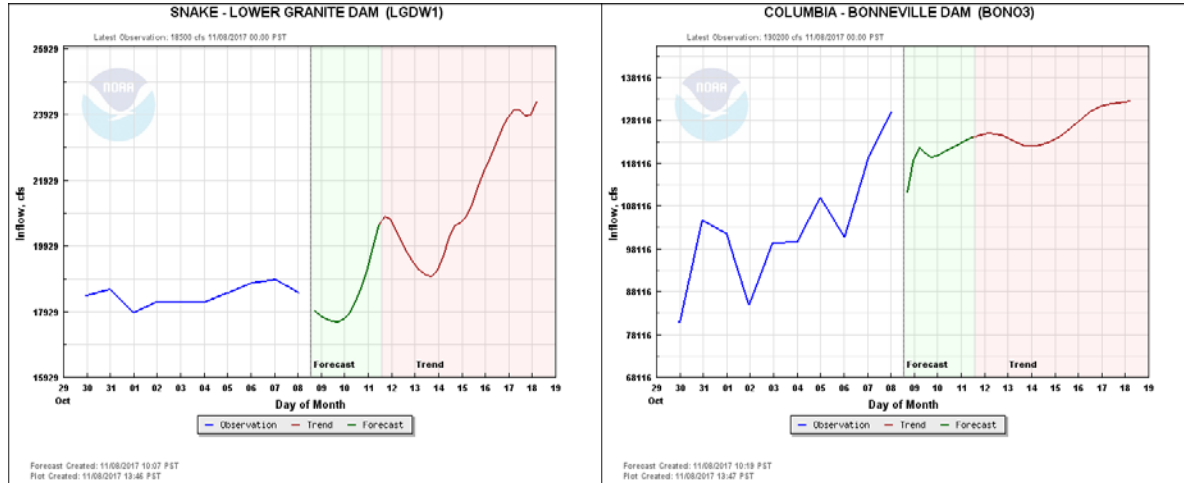
<http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html>

- 4.2.2.1. NWP FFDRWG – Scheduled for December 7 but this will most likely change since another meeting is scheduled for that day.
- 4.2.2.2. NWW FFDRWG – Scheduled for 30 November in Walla Walla.

4.3. RCC update

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	16	20	24	18 (11/8) / 24 (11/17)
MCN	97	114	115	109 (11/9) / 115 (11/17)
BON	126	125	131	111 (11/8) / 131 11/17)

Table 1. RCC flow forecast



4.4. BPA update – No update.

4.5. Fish Count Program – Visual counts are completed except at BON which goes through November. Video counts for this winter will be at TDA, MCN and LWG.

4.5.1. Next 5-year adult fish counting contract – The results of sources sought came in with 15 sources. Steelhead in the JBS do not go into the adult counts.

4.6. Pinniped update – There are currently 29 Stellars in the tailrace. The 1st Californian (a branded animal that is frequently observed at Willamette Falls) came up for a couple of days. Abundance estimates continue with predation estimates whenever the 20 animal trigger is met. The bulk of prey have been large/small sturgeon and shad. The predation estimates from this fall will go into next season’s report. NOAA would like some data for their upcoming Bi OP.

4.7. Lamprey update – The LPSs were taken out of service on 31 October. 290,000+ lamprey passed BON this year. Combining the window and LPS counts ranks this year as the 4th largest run on the Bonneville record (1946-69 and 1999 to present). The LPSs passed 40% of the fish. The LPS counts need to be integrated on the website as well as nighttime window counts. A PDT is working on the counter issues for the LPSs. The flume system only operated for part of the season – 51 fish only. Zorich is working on a press release.

WA Window (day + night)	WA AWS LPS	Bradford Is. Window (day + night)	Bradford Is. AWS LPS	Cascades Is. LPS	Other collected & release upstream	Estimated Bonn Escapement (LPS corrected)
26%	30%	32%	10%	1%	0.5%	
76,611	88,177	92,168	28,766	2,318	1,422	290,385

4.8. Avian update

- 4.8.1. **BON (Hausmann)** – Normal high fall bird counts
- 4.8.2. **TDA (Cordie)** – Normal high fall bird counts
- 4.8.3. **JDA (Grosvenor)** - Normal high fall bird counts
- 4.8.4. **MCN (Johnson)** – Normal high fall bird counts
- 4.8.5. **Dam Angling By-catch JDA (Grosvenor)** - The walleye numbers for the dam angling by-catch has grown greatly over the last two years. The average walleye by-catch for 2010-2014 was ~70 but in 2016 walleye numbers jumped to 516 and in 2017 to 845. Siberian prawns are killed as an invasive nuisance species but walleye are considered a game fish. **ACTION: Morrill will follow up with the WDFW managers.** The bag limit on walleye for fisherman has been lifted. Bettin said that since the dam anglers are fishing in a restricted area so they are not covered under the unlimited bag limit. This will remain an update next month.

5. **FPOM Charter** – Pending till next month. The most current copy will be sent out for review.

6. **Coordination/Notification forms (need concurrence/discussion)**

- 6.1. **17DWR05 Unit RTS-** There were several mortalities in this event. A sub group is necessary to discuss the issues. Setter wants to schedule this sub group meeting when the representatives are out in the Tri-Cities next month. Conder wants a plan from the COE on how to avoid ST mortalities in the future.
- 6.2. **17DWR06 MFR Unit 2 BPA Test** – There were two periods of speed no load. A single ST was noted with head damage. Air depressor is done before and after the speed no load. Conder feels like the speed no load is where the problem is occurring.
- 6.3. **17LGS19 MOC T1 Maintenance** – Doble testing was supposed to happen in August but the work was delayed and are requesting a shift in priority from November 13-15. Units 1-4 will be out of service.
- 6.4. **17IHR12 Update, Extend Transformer Work** – The original MOC coordinated 10 days in August for the cut gap line between units 1 and 2. Some other testing is needed during the same outage but it requires an additional two days with 24 hour shifts. Unit priority would shift to 4-6. Unit 3 will be on the replacement contract. Units 1 and 2 need to be OOS for this work. The work will take place 18-29 August. The project will be spilling with unit 4 as the priority. Comments are due by the end of the week. Peery will provide more details.
- 6.5. **17JDA15 MFR Partial Dewatering of SMF for Joint Inspection** – No comments.
- 6.6. **17TDA25 MOC Dual Ladder Outage** – Approved.
- 6.7. **17TDA26 MFR East Weir Lamprey Morts** – No comments.
- 6.8. **17TDA27 MOC TDA AWS Commissioning** – Approved.
- 6.9. **17BON70 MFR AFF PL mort** – No comments.
- 6.10. **17BON71 MOC Early BI and WA Shore March Outages** – Lorz would like to see the sand removed but doesn't want WA SH out the first week in March due to the kelts. Lorz suggests using a date instead of the trigger to start the B2CC. If units are running at PH2 without a ladder running then the sea lions in the tailrace will have easier access for predation. Conder suggested starting the B2CC on March 15th with only PH1 running. If there is too much water for PH1 then spill the excess but BPA is against this. FPOM wants flows included in the MOC. Mackey suggested using the same contractor as the rock pile removing and have a dual ladder outage in December or January. No concerns were expressed with the early BI outage. NOAA doesn't support a three week outage. FPOM recommends removing the sand, looking at the flume and checking the AWS but skipping the weir caps. Derugin will find out if they can support a dual ladder outage. The entrance will be out of criteria at any tail race below 18'.
Email Update: BON maintenance cannot support a dual outage.
- 6.11. **17BON72 MFR MU 17 STS malfunction** – No comments.

7. **Fish Passage Plan:** Change Forms are available online at:
<http://pweb.crohms.org/tmt/documents/fpp/2017/changes/> (2017) and
<http://pweb.crohms.org/tmt/documents/fpp/2018/changes/> (2018).

6.1 Pending FPP Change Forms

7.1.1. 18DWR001 – New Project Section (Setter). *[Pending further coordination and development of draft.]Need to establish a subgroup with BPA, NOAA etc.*

7.2. New FPP Change Forms

8. **Task Group Updates.**

- 8.1.** BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team: Bettin, Ebner, Hausmann, Kovalchuk, Rerecich, Wright. Pending until Ebner can coordinate the test. Ebner is here until January. The test will require spill and the B2CC.
- 8.2.** Avian Task Group - This group met from 12:00 – 13:00pm in the CRITFC offices before the November FPOM meeting.

Next meeting is 14 December and will be followed by the holiday party.