

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 11 July 2019 FPOM meeting.

The meeting was held in the Westrick Office at The Dalles Dam, The Dalles, OR. In attendance:

Last	First	Agency	Email
Baus	Doug	NWD-RCC	Douglas.m.Baus@usace.army.mil
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Walker	Ricardo	NWW	Ricardo.W.Walker@usace.army.mil
Wertheimer	Robert	NWP-FFU	Robert.H.Wertheimer@usace.army.mil

On the phone: Baus, Bellerud, Graham, Johnson, Juhnke, Morrill, Norton, Sears, Swank, Thompson and Walker.

Documents may be found at: <http://pweb.crohms.org/tmt/documents/FPOM/2010/>

1. Final decisions or recommendations made at this meeting.

- 1.1. Morrill requested additional time for edits to the June meeting minutes.
- 1.2. 19IHR10 MOC I-Beam for Lamprey Entrance Evaluation – FPOM concurred.
- 1.3. 19TDA04 MOC Crane Rail Replacement - FPOM concurred with night work using the FPP table to describe night hours when the ladder is in service. The areas near the entrances need to be completed within the in water work period when the ladder is out of service.
- 1.4. 19TDA14 MOC Extended Fish Unit outage - FPOM concurred with this MOC and prefers noon to 8PM or 10AM-6PM if more time is needed to accomplish the work.
- 1.5. 19BON18 MOC Cascade Island Subsidence Project – FPOM concurred.
- 1.6. 19BON003_SLEDS – Approved
- 1.7. 19BON004 – Day/Night Hours –Approved
- 1.8. 19IHR005_Units_5_6_Range – Approved

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. Composite Cooling Water Strainers Lamprey Counts (NWW)
- 2.3. FPOM Outages (NWW)
- 2.4. FPOM Transmission outages July through September (BPA)
- 2.5. BON CI PIT Tag building estimate (NWP)
- 2.6. Whooshh In-Season Report
- 2.7. Whooshh photos 1-3
- 2.8. Debris Management Plans (NWW)
- 2.9. Subsidence PowerPoint (NWP)
- 2.10. Coordination Forms (MOC/MFR)(NWW/NWP)
- 2.11. FPP Change Forms (NWW/NWP)

3. Action Items

3.1. NWW

- 3.1.1. **[July 19] Early Start Up** - ACTION: Setter will come back with a list of tradeoffs for the MCN early start.
- 3.1.2. **[July 19] Shad** - ACTION: Setter suggested everyone bring their list of ideas/tradeoffs for shad removal. Chris Peery will be pulling any ideas submitted prior to the meeting.
- 3.1.3. **[April 19] LGS debris spill** - ACTION: Setter will ask about the debris strategies at each dam and provide a list to FPOM. List was provided at May FPOM mtg, reps will bring any discussion to June FPOM. Status: Pending; agencies needed more time. *Status: Conder reviewed the documents and pointed out the LGS plan as helpful. With the upcoming Bi Op, Conder is looking to reinforce any good debris strategies as well as highlighting any concerns to put CRFM money towards. Thompson and Conder like the LWG system. Conder would like to hear any improvements to the system to consider for the mitigation package coming up. Debris is maintenance intensive. This topic will be moved to updates for next month.*

3.2. NWP

- 3.2.1. **[June 19] TDA Spillway** - ACTION: Cordie will find out if the crane can be used to fix the trunnion pin issue. *Status: The crane is only used for bulkhead installation. A gantry or barge crane would be necessary. The crane was a higher priority because it is necessary for spill maintenance.*
- 3.2.2. **[June 19] TDA FUB**- ACTION: Cordie will check to see if the contract can add isolating one unit in the contract. *Status: Cordie checked with the electrical engineers and it is doable but it would extend the contract. The Project also has concerns about asking this*

contractor to do any more work because of the work quality of this contract. Bettin asked if another contractor could be hired to isolate. Cordie will look into this possibility.

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

3.3.1.[June 19] Lamprey Update - ACTION: Lorz/Morrill will talk to FPC about posting 24 hr lamprey counts with FPC at the FPAC meeting. *Status: Completed.*

3.3.2.[June 19] 19IHR08 - ACTION: Wright needs to adjust the upcoming summer spill teletype to change the position of spill bay 5 to close. *Status: Completed.*

3.3.3.[May19] 19JDA09 MFR Spill gate 20 OOS - ACTION: Grosvenor will look into why the spill gate closed. *Status: A coupler between the motor and gear box failed and sheared the bolts off.*

3.3.4.[December 18] TDA dam angling Catch Results - ACTION: Morrill will ask Winther for data to be broken down by month. Status: Morrill has the draft 2018 report and will send to Kovalchuk for FPOM distribution. *Status: Completed. The draft report was posted to the website.*

4. Updates

4.1. NWW

4.1.1. Upcoming maintenance/construction/research activities.

4.1.1.1. FPOM outages schedule (Setter) – Doble testing is scheduled for 22-25 July at IHR, 25 July – 03 Aug at LMN, LGS is cancelled and 12-17 August at LWG. The cooling pumps are operational and running in criteria.

4.1.1.2. Early Start Up 2020 update for LGR, MCN – MCN is willing to do an early start but the project will not be able to complete all the necessary maintenance because it is the same O&M funds. Lorz asked for a list of items that can't be done due to the early start. **ACTION: Setter will come back with a list of tradeoffs for the MCN early start.** MCN fall back study needs to put equipment in certain units and unit 13 will be out of service until fall. The discussion of which units to outfit with gear for the study will happen at SRWG.

4.2. NWP

4.2.1. Upcoming maintenance/construction/research activities.

4.2.1.1. BON Tug Diane removal – NOAA has approved a window for removing the tug in between 15 September - 15 October. This operation will be coordinated through TMT.

4.2.1.2. BON CI PIT room – BON is looking for 2020 funding. The cost estimate for the building is ~\$73K.

4.2.1.3. BON Whooshh – Whooshh report was put on the website with pictures.

4.2.1.4. BON/TDA Lamprey Mode Process- Conder did the BON inspection and the entrance was still in lamprey mode at 10:30 in the morning. He wants a better process for remembering to change back the entrance settings. Hausmann suggested making the operational change during a shift change but that would be later than 4am. Conder brought up the study report that said attraction to the ladder increased but that did not translate to an increase of success in the ladder. Lorz asked Walker to review the data with the Lamprey Task Group and see if there is a good benefit to continuing this operation. If the operations will continue then Conder would like to see an automatic weir gate change. TDA fisheries has been making the operational changes themselves not Operators. TDA is updating the PLC and will be able to do the change automatically in the future.

4.2.1.5. TDA spillway inspection for barge damage – The inspection will wait till after spill ends

- 4.2.1.6. TDA PUD facility – Martinson samples once a week April through July and the plan is to build a new sample facility. Martinson explained the current plan and needs help with the required biological testing. Bellerud has been engaged in this process. The engineering team has the NMFS criteria that they are designing to but the new design may not meet the criteria but pass the biological testing. Martinson is expecting to start building this winter. Lorz was surprised by this update and was not aware that the facility was close to going in. This item will be updated again.
- 4.2.1.7. JDA south turbine pump #3 –An application was just completed for sole source contracting to repair the pump. Grosvenor thinks it will be fixed this FY.
- 4.2.1.8. JDA elevator – The contract award date is August 2. A winch is being used and the LPS is being used. It will be an emergency sole source contract. The work is expected to take 5 days.

4.3. Research/FFDRWG updates.

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

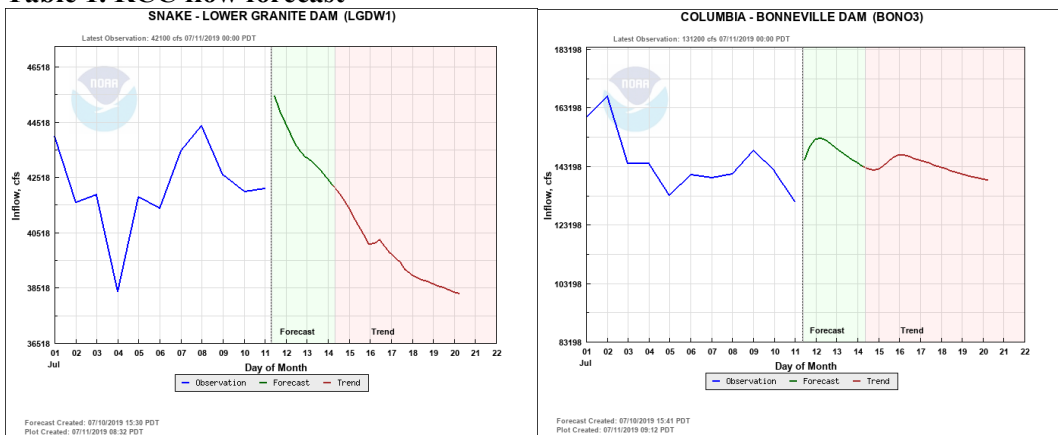
4.3.1.NWP FFDRWG – The next meeting is scheduled for 01 August.

4.3.2.NWW FFDRWG – The next meeting is scheduled for 22 August. Marvin Shutter is the lead.

4.4. RCC update

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	42	41	38	38 (7/20)/ 45(7/11)
MCN	135	141	134	134 (7/20)/154 (7/11)
BON	139	143	138	138 (7/20)/153 (7/12)

Table 1. RCC flow forecast



4.5. BPA update – See under MOC/MFR 7.8 19TDA14 MOC Extended Fish Unit outage

4.6. Fish Count Program –The quality control program has been implemented and a counter was retrained for accuracy. Lorz asked about using the video counts for steelhead measurements. Wertheimer said that the position of the camera is essential for getting an accurate length estimate. The camera location is tricky because it can't impede the counters view. The contractor might be testing out AI. Conder asked if there is a B-run line in the data. Peery said that there is no B-run column and it is a contracting issue to add that data. It might be possible to

pass the video to CRITFC to see what kind of data can be gleaned. Peterson thought that Four Peaks is trying to use AI to identify juvenile smolts.

4.6.1. Shad – 7.4 million shad have passed BON. The thought is to facilitate the shad through the ladder but is there a way to block the shad before getting to the Snake River. Conder suggested using a false weir followed by a switch gate followed by a braille to separate the shad from salmon. This method would still involve take. The massive amounts of shad is a fish count issue. There are tradeoffs from predators that are now used to eating shad.

ACTION: Setter suggested everyone bring their list of ideas/tradeoffs for shad removal. Peery will start some ideas.

4.7. Pinniped update

4.7.1. BON – There are currently no sea lions in the BON tailrace. Hazing is not part of the new removal criteria at Willamette falls. Managers are setting up for SSL removal. Wertheimer thinks that the benefit of hazing is negligible and pushes the animals around. Conder thinks it is important to keep hazing and it is required under the Bi Op. Wertheimer asked if hazing was required at Willamette and Conder said no because the new Bi Op covers Bonneville on the Columbia River not the Willamette.

4.7.2. TDA – U835 was removed on 17 June. There were confirmed sightings of a sea lion at the TDA marina but it wasn't thought to be branded.

4.7.3. Willamette Falls – Oregon reported that 33 CSL were removed at the falls. VanDyke said there are rumors of a sea lion at the mouth of the Deschutes. If anyone has confirmation, he would like to know.

4.8. Lamprey update – FFU sent out estimated passage numbers and are working on the correction factor. When the validated numbers are ready, then FFU will send them out. The validated numbers are always included in the annual report but they are working on getting them out monthly.

4.9. Avian Update

4.9.1. BON – Very few birds are present.

4.9.2. TDA – 800 gulls and 200 pelicans were observed in a single day count. Pelicans eat just below the spill wall and appear to be targeting shad. Lots of gulls have been observed under the avian line.

4.9.3. JDA – 500 gulls are present out on the islands. All lines are intact.

4.9.4. MCN – All species are present but the numbers are not too high. The project is working on getting a second laser, a sound system like at an airport and a grebe distress call for the forebay. Hazing will end on the 27th of the month. Peery is working on the data from the block study.

4.9.5. FFU – On ESI, outside of the colony, there are 2 acres of passive dissuasion. Terns are frantically trying to lay eggs but there are only a handful of eggs outside of the colony. The COE doesn't have egg take allowance at ESI outside of the colony. Rice Island is clear and there was a question on whether or not the COE can transfer Rice Island egg take to ESI.

5. Lamprey translocation trapping (Lorz) – The MOC was sent out late yesterday afternoon. Porter explained that the tribes have not met their translocation allocation and the need to find alternative locations to meet the allocations. There are two locations being looked at – CI LPS which used to be a trap but was made volitional and the WA SH AWS rest box#2. They want to start as soon as possible but at least have it set for next year. CRITFC worked with Hausmann to identify several tail race locations which are not included in the MOC since they should not impact other fish. Jackson described the desperate situation that the tribes see for lamprey migration. The allocation was raised from 4 to 8% (2% per tribe) of the run due to the lack of lamprey making it upstream on their own. The allocation is all for translocation not harvest. Swank needs to discuss the MOC with his internal staff. He has concerns about the U of I study not getting enough lamprey and therefore being a waste of time and money. Porter informed Swank that the MOC would not affect the U of I fish collections.

. Swank would like monitoring to know whether the proposed action will have an effect on the rest of run. Swank thinks he could support a one year temporary trial but not a permanent change. Porter described we would implement the same precautions used in the past when collecting in LPSs. Conder asked if the allocation number would be adjusted for the low run. Jackson said that the allocation is based on the previous two years and his position during a low run is he would like to get his hands on every fish to get them upstream. If the run is low enough, CRITFC would consider collection at Willamette per Tribal Translocation Guidelines. Porter said that this will not impact the number of UofI fish; this is a different location than U of I gets fish. Swank agrees with working out additional locations but has concerns that this action could impact other fish in the LPS. Jackson thinks that this is no different than when the CI LPS terminus was a trap so there is many years of data. Porter pointed out that the project checks the rest boxes and sends out MFRs that could would indicate a potential problem. Porter can come up with a research proposal looking at impact. Swank needs to discuss this internally. Wertheimer said the goal of getting this fish above the dam is good but the location of the proposed trapping is where the fish have a high probability of making it above the dam. Porter said that the problem is even if a fish makes it over BON it has a 50% chance of making it above TDA. Wertheimer asked if it was possible that they are spawning in the BON pool. Porter said it is possible but very few of the PIT tagged fish show up on the tributaries that have detectors. Setter asked about juvenile success. Jackson said the screw traps are not good for collecting lamprey but the numbers have still increased greatly. They have yet to have a PIT tagged juvenile come back as an adult. The comment period is open until 24 July.

6. **NPMP non-native species by catch (ODFW/WDFW)** –The pilot study is not active right now. ODFW is working on designing a future study.

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

7.1. **19LWG06 MOC Spill bay PIT-tag Antennas Installation** – The comment period closes 24 July. Bettin said that those units will have to go in the outage tracking system. The post construction evaluation is not until 2021 due to funding but the antenna will be used in the meantime. Setter suggested a video for the spill test. Lorz suggested an inspection to check the concrete but Hockersmith said that IHR wasn't inspected. Bettin will suggest testing after 3 April. Conder suggested starting at 10am for adult passage. Hockersmith doesn't want any cost increase.

7.2. **19IHR10 MOC I-Beam for Lamprey Entrance Evaluation** – This action has a short notice and is only four hours of work. Thompson asked about a contingency plan for any problems. Juhnke said that the time is conservative and doesn't think that there will be further complications. The action will start at noon. The original I-beam had six sheared bolts so there must have been an impact by debris. **FPOM concurred.**

7.3. **19JDA13 MFR CRITFC holding tank PL morts**

7.4. **19JDA14 MFR CRITFC holding tank PL morts**

7.5. **19JDA15 MFR Spill gate 6 OOS**

7.6. **19TDA04 MOC Crane Rail Replacement** – The original discussion started a couple of months ago but it was left unresolved. Most of the work is over the transportation and collection channel. The work takes too long to stay within the IWWP and would drag on for years if they can't work outside of that period. The plan is to remove the old crane rail and install the new rail. The crane removal is the problem and the installation is quiet in comparison. The crane will be used by the project during the year; no plans to have two cranes. The ends near the entrances will be done during the IWWP. The project manager would like a whole year of night work. Bettin asked what the day/ night time is. An 8 hour days in a contract is standard but the contract can specify certain hours. Lorz suggested 12 hour days during the fall/winter. The FPP has a day/night table. Conder suggested doing the loud noise at night and quiet working during the day to increase time. The work is planned for September 2020 but they need the contract language before going

into BCOES. Any additional comments need to be sent in the next two weeks. *The group went out for a site visit after the meeting and discussed the situation again. Van Dyke, Lorz and Conder agreed that when the east ladder returns to service after the winter outage then the work must be at night. The night work will be based on the FPP table. FPOM concurred with night work using the FPP table when the ladder is in service. The areas near the entrances need to be completed within the in water work period when the ladder is out of service.*

7.7. 19TDA11-13 MFR

7.8. 19TDA14 MOC Extended Fish Unit outage – Three separate actions are overlapping on the ROV date. Lorz would rather have the time go from noon to 8pm. The ROV time is flexible. Bettin asked if 10-6pm would be okay and FPOM concurred. **FPOM concurred with this MOC and prefers noon to 8PM or 10AM-6PM.** The breaker work was scheduled for September and Bettin was trying to move it to a less impactful timeframe. *After the meeting, the project said that they could accomplish all the work in the originally coordinated time allotment.*

7.9. 19BON10-17 and 19-22 MFRS

7.10. 19BON18 MOC Cascade Island Subsidence Project – The Mabey Bridge will go over the existing bridge. The concrete pads will be excavated down to five feet. A pad will be installed to detect movement then filled in with the original dirt and additional gravel and compacted. **FPOM concurred.**

8. The final 2019 FPP is available online at: <http://pweb.crohms.org/tmt/documents/fpp/2019/> All 2019 FPP change forms and draft chapters/appendices are posted at: <http://pweb.crohms.org/tmt/documents/fpp/2019/changes/>

8.1. Pending Change Forms:

8.1.1. 19LGS004 – Channel Velocity (Peery/ St. John). Pending more information on rationale for changing the location.

8.2. New Change Forms:

8.2.1. 19BON003_SLEDS –Approved.

8.2.2. 19BON004 – Day/Night Hours –Approved.

8.2.3. 19IHR005_Units_5_6_Range – Approved. Bettin brought up the table for unit 1 is which is not agreed upon.

8.2.4. 19LGS004_Channel-Velocity – Pending till the FPP meeting in January.

9. Task Group Updates.