

Subject: Final minutes for the 09 March 2023 FPOM meeting. The meeting was held via WebEx from 0900 until 1230.

In Attendance:

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			8312*85	
			360*57	
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1. Final actions or decisions.

- 1.1. January meeting minutes approved.
- 1.2. February meeting minutes pending edits from Charlie.
- 1.3. Morrill reported that dam anglers can remove non-native species when caught incidentally in the northern pikeminnow efforts. Lorz asked which projects are covered by WDFW. Morrill confirmed that WDFW will be at TDA and JDA.
 - 1.3.1.23BON003 MOC T11 Outage. Conder asked if the ITS would be at full operation. The trashracks will be in 1A and 1B and the ITS. FPOM concurs with this outage.

2. Action Items

2.1. NWW

- 2.1.1. [MAR 23] MCN spill crane/TSW operation. **ACTION:** Peery will follow up and update FPOM when he finds out more.

2.1.2.[MAR 23] MCN avian hazing. **ACTION:** Lorz asked for the current USDA workplan. Peery will send the SOW to Lorz.

2.2. NWP

2.2.1.[JAN 23] Spillway condition report. **ACTION:** Mackey will talk with NWD about next steps. She will also try to track down a consolidated spillway report. **STATUS:** BON Major rehab report (MRR) was put on -hold in 2018 while it awaits the outcome of the Issue Evaluation Study (IES) which is expected to be complete in summer 2023. The IES will help shape the scope of the MRR. Funding is being pursued to restart and finish the MRR. It is expected that after the PDT is established, about a year is needed to finish and have a final report. External input is not yet needed but once funding and the team gets started, updates will be provided to the regional forums. Lorz asked if the time frame is normal or if the length of time is more due to the lack of funding. Conder asked if the MRR will include the stilling basin damage. Rerecich wasn't sure what would be included but would have more information after the team reassembles.

2.2.2.[FEB 23] Avian reports. **ACTION:** Lawonn will send the DCCP Status Assessments to Mackey for posting.

2.2.3.[MAR 23] 23BON006 BON B-Branch erosion repair IWW extension. **ACTION:** Mackey will provide an update as soon as she gets more information from the PDT, later today or tomorrow.

2.2.4.[MAR 23] BON TDG. **ACTION:** Mackey will get a MOC and the PNNL reports sent to FPOM for the TMT meeting on Wed next week.

2.2.5.[MAR 23] TDA Falconry. **ACTION:** Cordie will share the falconry abatement plan with FPOM.

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

2.3.1.[FEB 23] MCN spillway hoists and gates. **ACTION:** Peery and Vandiver will provide a written document with the explanation of the situation at MCN. **STATUS: Completed.**

2.3.2.[FEB 23] LWG T1T2. **ACTION:** Hesse asked if ability to fill the pool has been accounted for with the modeling. Peery doesn't have an answer but will get back to Hesse. **STATUS: Schedule for this work has been adjusted.**

2.3.3.[FEB 23] LWG T1T2. **ACTION:** March has no temperature problem and it is really early in the adult run, the downside is there may be a need to spill. Peery said he would talk with Ricardo Walker. **STATUS: Schedule for this work has been adjusted.**

2.3.4.[FEB 23] Avian NEPA **ACTION:** Schmidt said he will put the questions about the EA and capabilities to APHIS at his meeting today. Schmidt will invite Gallion to his meeting today. **STATUS: completed.**

3. Updates

3.1. NWW Updates

3.1.1. Upcoming coordinated maintenance/construction/research activities.

3.1.1.1. 22 LWG 04 MOC T1T2 Gasket Repair. New dates Nov 28-Jan 31. Will work on T1C first and then T1B.

3.1.1.2. 20 LGS 16 MOC Powerhouse Roof Repair. Reconnection completed 13-23 February.

3.1.1.3. LWG Avian Wires Replacement. Several wires were broken due to ice build-up. Work was done on March 2

3.1.2. MCN crane status. B. Johnson had no new updates. Conder asked about the FPP change in spill patterns. How does the TSW operate so easily? Peery said the TSW is on a hoist. During spill season there will be four bays on auto mode with the hoists. One hoist is operated three days a week to provide the necessary spill. Hesse said the Nez Perce would prefer more spill. Could the TSW be turned on and left on for March? Peery said he brought that up and it will be discussed at higher levels. Additional spill is not favored by BPA.

MCN would find that operation easier but the additional spill is expensive. Lorz asked if there are mobile cranes that might be available to place on key bays in lieu of all day TSW operation? Peery didn't have an answer for that at this time. The cranes would have to be large. Lorz asked about the timeline to get the Bay 6 hoist completed. The project is waiting on the parts (which have to be manufactured still). Hesse asked if there is a timeframe for a response regarding the TSW operation. **ACTION: Peery will follow up and update FPOM when he finds out more.** Peery clarified that the intent is to not reduce spill. Hesse stressed that wear and tear have been used as reasons for reducing operation in the past, there is a window of opportunity to benefit fish and reduce wear and tear, and we need to make a decision to move forward quickly. Bettin said there may be an option to reduce wear and tear by creating fewer blocks of longer periods. Hesse said he would see that as a degradation to fish passage. Morrill concurs with Hesse.

3.2. NWP Updates

3.2.1. Upcoming coordinated maintenance/construction/research activities.

3.2.1.1.21BON001 MOC Navigation Lock 1 (old navlock) Bridge Replacement. (Trachtenbarg).

3.2.1.2.22BON096 MOC involuntary spill patterns. Still in effect.

3.2.1.3.23BON002 ITS end gate replacement. Waiting on painting. Conder asked how the ITS is being operated. Flemmer reported that there is a trashrack in 1A, 1B is closed, auto gates are in normal operation. Plan for 1B is to leave closed as there are not enough trashracks to install and open the chain gate.

3.2.1.4.23BON003 T11 outage. Still pending MOC concurrence.

3.2.1.5.23BON006 BON B-Branch erosion repair IWW extension. Flemmer said the contractor is not working 24 hours but just during daytime hours. Lorz expressed frustration with the work schedule and the potential for additional impacts as we get further into March. **ACTION: Mackey will provide an update as soon as she gets more information from the PDT, later today or tomorrow.**

3.2.1.6.23BON007 BI exit hydro survey (prep for exit dredging in the winter). Completed but didn't get closer than five feet of the wall.

3.2.1.7. BON FGE – Units 11 and 18 Scheduled from 30 Nov – 28 March. The schedule is posted to the website. There was a weather delay but the contractor was already ahead of schedule. Conder asked when six units would be completed. Rerecich said end of August. Conder is trying to marry up SRWG studies with the modified units to determine if anything can be done in 2023. Rerecich, Hausmann, and Conder will discuss the SRWG testing and unit operations further. Lorz asked about the schedule. Rerecich said the outages are about seven weeks per unit. The T11 units coincide with the T11 outage in the fall. Expected completion is December 2023.

3.2.1.8. BON U11. U11 was forced OOS due to plates that failed. No update at this time.

3.2.1.9. 19TDA04 MOC – East side powerhouse crane rails. Next step is to replace the crane in the spring. Work is expected to be complete in the summer. The work will occur at the east end of the powerhouse, more than 100' from the fishway exit. The center of the powerhouse still has rail that needs to be removed and then the train rail will be removed during the winter.

3.2.1.10. 18JDA02 MOC Trash rack replacement. MU16 is complete. PDT working on a second contract for the remaining 15 units. No updates expected until fall.

3.2.1.11. 20JDA04 MOC STS crane replacement. In design phase.

3.2.1.12. 22JDA20 MFR JDA-S Temps. Still accepting comments. Plan is to collect data this season.

3.2.1.13. 23JDA03 and 04. JDA-S fish turbine pumps 2 and 3 OOS.

3.2.1.13.1. Grosvenor reported that the gear box manufacturer was on-site and gave the Fish Turbine #3 gear box a quick look. They provided a report so JDA now has

a better understanding that the problem is related to the bearings. Philadelphia gear is working on alternatives to replace the bearing. The work is beyond the Project's ability. JDA is working on a plan and funding.

3.2.1.13.2. Fish Turbine #2 had been maintained and RTS during the summer of 2022.

This winter the mechanics noticed excessive vibration and suspected a failure of the lower guide bearing. When returning to service, the shaft failed the swing test so the unit has been disassembled with a RTS date sometime after next week.

3.2.1.13.3. South Fishway. Two entrances are open at JDA-S. Collection Channel and entrance head is within the FPP criteria. Fish Turbine #1 is currently at max operation. Lorz asked about the RTS date for restoring the fishway to FPP entrance opening criteria. Grosvenor said JDA would have only one fish turbine for the next couple of weeks. He anticipates several months before fish turbine #3 returns to service. Grosvenor said JDA believes the shaft is worn out and doesn't realign with the guide bearing. Replacement of the propeller shaft is halfway to an overhaul and very costly. Lorz asked if there has been thought of mimicking the north shore for AWS water. Morrill asked about the cause of fatigue. Grosvenor believes it is just age. Conder asked about the visual condition of the fishway in the current configuration. Grosvenor said the fishway has one entrance at the north end closed, other is submerged 8'. Two entrances at the south end are submerged 8'. Conder asked if this operation has been looked at in the past and what was found. Grosvenor said JDA has operated in a similar manner. There wasn't conclusive results as to whether or not fish were negatively impacted. That was only a three-week outage though.

3.2.2. BON ITS PIT detection. The new design was presented at FFDRWG. Morrill said there is a new design that meets the Corps concerns. The Region is looking at installing something at MCN instead of BON ITS, but more to come.

3.2.3. BON Aquí-S. Waiting on EPA. A public comment period is expected in the spring and then the permit will be issued.

3.2.4. TDA Spillway. Bay 10 not yet outfitted with the Bay 9 ropes and drums, still the plan to complete this year. No update; maintenance is focused on navlock maintenance.

3.2.5. TDA N Ladder Rockfall P#449517. This hasn't made it above the cut line in the budget yet. Will remove from the agenda. Cordie did describe the overgrown condition of the north ladder. TDA is looking at having a contractor come in next winter to clear all vegetation.

3.2.6. Wasco PUD smolt condition monitoring start date. Starting 4 April.

3.2.7. JDA north pump #4. Budget request has been submitted.

3.3. NWS updates. No updates.

3.4. Research/FFDRWG

3.4.1. SRWG. AFEP audio and presentations posted to [FPOM/SRWG \(crohms.org\)](https://www.fishbase.org/AFEP/SRWG)

3.4.1.1. Revising studies, based on comments from the meeting last week. Comments are requested prior to April so the planning schedule isn't disrupted too much.

3.4.2. NWP FFDRWG.

3.4.2.1. Lorz requests the JDA-S AWS system redesign be considered. A keyhole entrance might also be considered. This would be appropriate for FFDRWG to take up and push forward. Macdonald will get it on the agenda.

3.4.2.2. TDA AWS debris management.

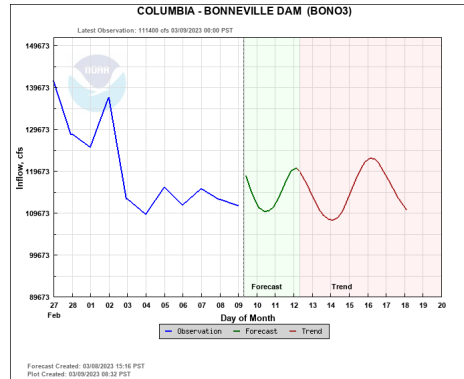
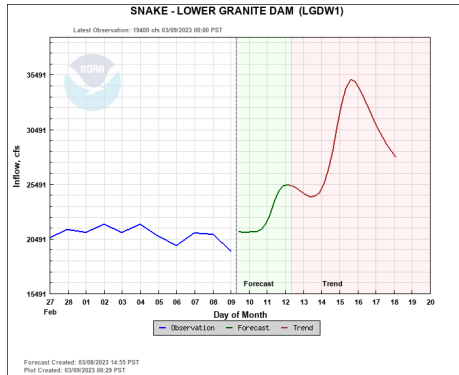
3.4.3. NWW FFDRWG. Next meeting is schedule for 27 April.

3.5. RCC update.

Table 1. RCC FPOM flow forecast.

Project	Previous Day (3/8) Average Outflow (kcfs)	5 Day (3/13) Forecasted Inflow (kcfs)	10 Day (3/18) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	19	24	28	21 (3/9) / 35 (3/15)
MCN	106	96	94	91 (3/14) / 104 (3/9)
BON	109	113	111	108 (3/14) / 123 (3/16)

Project Data: <https://pweb.crohms.org/report/projdata.htm>



3.5.1.BON TDG. D. Turner provided the situation. BON has low TW. DEQ has a shallow water standard of 105% that applies to the chum redds at Pierce/Ives islands. No exceedance at this time but we are very close – currently at 105.4% with exceedance at 105.6%. We anticipate exceeding. B2CC started operating 4 hours per day from 1-8 March. On 9 March the B2CC will be open an additional four hours in the afternoon. TMT requested RCC reach out to DEQ for confirmation on the criteria. Turner is meeting with DEQ next week (Monday or Tuesday).

3.5.1.1. Bay 1 is unavailable for operation at this time due to the clearance for the contractor in the spillway.

3.5.1.2. Conder believes there may not be a strong link between the Warrendale gauge and TDG at Pierce/Ives. van Dyke said that any action right now would be premature until we have an interpretation of the DEQ standards. Lorz asked if there is a duration of exceedance. Turner said there isn't language other than "do not exceed"... Turner would like to reduce TDG without impacting fish passage. Immediate action may not be needed if we can test options while further discussing with DEQ. Conder is adamant that Warrendale is not an appropriate gauge, however, the Corps may not have flexibility in choosing to use or not use Warrendale at this time since we do not have a gauge at Pierce/Ives. Turner will look at the data and reach out to Conder. Morrill is supportive of the discussion about how to work with the DEQ standards and fish passage. Ebel asked Trevor to share the PNNL report. He agrees that TDG at Pierce/Ives wouldn't be the same as at Warrendale. He expressed frustration that state regulation is being used to justify an action that isn't good for fish. Bettin clarified that the operation is more about changing how we spill, not necessarily spilling less. Lorz asked if TW is supposed to raise. **ACTION: Mackey will get a MOC and the PNNL reports sent to FPOM for the meeting on Wed next week.** Baus asked what we do in the meantime. Turner said he would look at the 24 hour data tomorrow and if an exceedance is seen, what a few days to ensure it is related to operations. Baus said we can use the TMT meeting next week.

3.6. Fish Count Program SOW (Peery, Wertheimer). Visual counts start in April for all locations. Lorz has comments on the SOW. He has also reached out to TAC. Need all comments by May since the RFP goes out in June.

3.7. Pinniped update

3.7.1.BON. van der Leeuw reported that there have been many zero days and lately there has been only one stellar sea lion seen. FFU is anticipating an increase with the spring Chinook run. van der Leeuw will be the interim team lead while Tidwell is on detail to ERDC. Edwards reported that removal efforts will begin on 3 April. There will be eight weeks of management.

3.7.2.Willamette Falls. van Dyke reported that there are a couple of pinnipeds near the falls but not a lot of activity.

3.8. Lamprey update

3.8.1.BON. Derugin reported that the project is prepping for the season. Gibbons said she will be sending the lamprey letter report this afternoon for regional review.

3.8.2.TDA. Cordie said two exit weirs have been modified for lamprey. The remaining two will be completed next IWW. Tracking PDT progress on additional mods and LPS design.

3.8.3.JDA. Grosvenor doesn't have much to report until the weather warms enough to allow for the pipe installation at the north ladder.

3.8.4.NWW. Macdonald said PNNL will be at LWG next week for collection of lamprey. MCN completed the modified entrance weirs.

3.8.5.LAWG. Doodle poll out for the April meeting.

3.9. BPA Update. Schedule available on the FPOM website. Nothing of concern for this month. Last month the LGS bus work was completed. Just need U5 to RTS.

3.10.Budget Updates.

3.10.1.NWP/NWW Critical Fish Passage O&M needs. – Update posted. Please review and provide ranking, questions, or comments to Mackey by the April FPOM meeting.

3.11.Avian updates (10:30-11:34).

3.11.1.NWW. Completed Badger/Crescent Island work Feb 15. St. John will provide the powerpoint as soon as he can. Vegetation was used to cover the open areas terns used for nesting. Everyone thanked St. John for the work NWW did. Lorz suggested utilizing RTR data that they have collected about the ecosystem on the islands. Trachtenbarg said there won't be CAP flights this year but the RTR flights should be sufficient. Lawonn asked for confirmation that there will still be aerial surveys. Trachtenbarg clarified that he was just talking inland flights, not the estuary.

3.11.2.NWP Avian EA/NEPA (Environmental Branch). Written update provided by A. Gibbons PME Branch Chief. *The Draft EA has completed Corps internal technical review and is under final revision for release to the public. We anticipate that release this month. Timing of the final EA and the Corps' FONSI will be determined by the number of public comments received, however we are optimistic that our FONSI can be signed in early May.* Lorz asked if we are missing another year or if this tool will be available this season. USDA expects this will be in place for the 2023 season. McDowell said USFWS is looking for the application and will prioritize it.

3.11.3.JDA. 40 cormorants and one lonely pelican. Avian line contract is moving through CT. No word on award yet but will have it done as soon as possible.

3.11.4.TDA. Some gulls attracted to the sluiceway. Cormorants are showing up as well. Preparing for the USDA hazing starting mid-April as well as the falconry contract. McDowell noted that falconry abatement is for hazing and not for intentional take. Skiles asked if TDA would be collecting data on the falconry abatement so there can be some indication of effectiveness. Cordie said his team will continue to observe and collect data but it should be noted that they are not a research group so there are limitations. Krasnow asked about hazing pelicans that come in at the end of the season. Cordie said the issue is when they get into the ladder.

McDowell said that would be included in the EA. **ACTION: Cordie will share the falconry abatement plan with FPOM.**

- 3.11.4.1.** McDowell asked about the BPA plan to deal with the DCCO nests in the towers. Cordie said there isn't any plan yet. McDowell said a permit could be issued if needed. Lorz asked if there have been discussions about make the towers less bird friendly. Cordie talked with Hausmann and has a meeting with Josh Ashline next week.
- 3.11.5.** BON. Waiting to reinstall lines until after the B-Branch erosion contractor is done.
- 3.11.6.** Estuary. FFU is prepping the island. No birds at this time. Lorz asked when FFU would be on Rice. Wertheimer clarified that when he talks about the estuary he means all of the islands. No birds on Rice, aside from larks. Krasnow expressed appreciation for the work FFU is doing. Lawonn reported a little more than 1500 DCCOs on the Astoria-Megler bridge. Skiles asked about the migratory patterns. Lawonn said he went out in the spring last year and there were about 800. McDowell said Dr. Roby had said that there used to be no birds residualizing in the estuary over the winter. It looks like there are more DCCOs using the estuary in the winter and early spring.
- 3.11.7.** Reports. Lawonn will send Mackey the results.
- 3.11.8.** AA 2023 avian plans. Tackley said the plan is to walk through the plans for 2023. He noted that most of what he wanted to talk about has already been covered. The Corp to NOAA email is posted to the FPOM website. Will also discuss BPA and BOR.
 - 3.11.8.1.** BPA – G. Smith reported that BPA is funding two RTR flights and continuing monitoring as they have in the past. Smith is the COR on RTR contracts and Josh Ashline is the new avian bio.
 - 3.11.8.2.** BOR – J. Sechrist reported BOR will continue to monitor Goose Island and potholes. In year four of a five-year contract to actively and passively dissuade terns in potholes. Marinating arrays at Goose Island. USDA will be hazing in the reservoir. Tracking the suspicion that terns from Badger Is. may try to head to Goose Is. USDA has been made aware and APHIS is able to adjust schedule to keep on top of the potential influx and keep up on egg take efforts on Goose Is. They will monitor nesting, egg take, and colonizing. That data will be provided in an annual report. BOR will assemble an internal team to evaluate progress and future actions. Sechrist noted BOR is investigating re-vegetation and woody debris placement. Krasnow suggested reporting at the T. Skiles avian forum. Sechrist said he has been in contact with CRITFC and they are aware of BOR efforts.
 - 3.11.8.3.** USACE – S. Tackley reported on the avian monitoring and management plans. Falconry evaluation at MCN doesn't have consensus. McClain's research study from 2022 is getting dusted off and re-submitted this year. It will be in two parts for 2023. NWW will kick off the EDR for MCN in 2024.
 - 3.11.8.4.** Mackey reminded everyone that the document discussed has been posted to the 2023 March meeting folder on the FPOM website.
- 3.12.** Morrill reported that dam anglers can remove non-native species when caught incidentally in the northern pikeminnow efforts. Lorz asked which projects are covered by WDFW. Morrill confirmed that WDFW will be at TDA and JDA. WDFW acknowledged the different opinion held by ODFW regarding non-native removal.

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

4.1. NWW

- 4.1.1.** 23LWG01 MFR Bird Wires repair. No additional comments.
- 4.1.2.** 23LWG02 MOC PNNL Receiver Install (Due March 2). No additional comments.
- 4.1.3.** 23LWG03 MOC Unit 5 Operation Testing (Due March 13).
- 4.1.4.** 23LMN01 MOC PNNL Receiver Install (Due Feb 17). No additional comments.

- 4.1.5.23LMN02 MFR Fish Loss Gatewell 2B. No additional comments.
- 4.1.6.23IHR01 MFR Delay in returning north fish ladder to full operation. No comments.
- 4.1.7.23IHR02 MOC North fish ladder power outage for LSP-1 testing. No additional comments.

4.2. NWP

- 4.2.1.23JDA03 MFR JDA-S Fish Turbine #3 OOS. No comments aside from 3.2.1.13.
- 4.2.2.23JDA04 MFR JFA-S Fish Turbine 2 forced OOS. No comments aside from 3.2.1.13.
- 4.2.3.23BON003 MOC T11 Outage. Conder asked if the ITS would be at full operation. The trashracks will be in 1A and 1B and the ITS. FPOM concurs with this outage.
- 4.2.4.23BON008 MFR BON nav lock diesel fuel spill. No additional comments.
- 4.2.5.23BON009 MFR BON Hydraulic Fluid Spill. No additional comments.
- 4.2.6.23BON010 MFR PH2 F1 extended outage. F1 returned to service. No additional comments.
- 4.2.7.23BON011 MFR BON Hydraulic Fluid Spill. No additional comments.

5. Fish Passage Plan

- 5.1. The Final 2023 FPP went into effect on March 1 and is posted at:

pweb.crohms.org/tmt/documents/fpp/2023/changes/pweb.crohms.org/tmt/documents/fpp/2023/

- 5.1.1.23MCN001 Macro Micro Spill Ops V4. Concurred.

6. Task Group Updates.

- 6.1. Task Group Hazing. [Documents / FPOM Avian Task Group \(crohms.org\)](http://Documents/FPOM/Avian/TaskGroup/crohms.org)

- 6.1.1.MCN Falconry notes posted to the March FPOM folder. Wanted to switch to falconry without an evaluation in lieu of the USDA hazing. No consensus. Research summary will be discussed at SRWG. MCN will proceed with developing a proposal for FPOM review. Need a decision no later than September to allow time for a contract award by April 2024.

ACTION: Lorz asked for the current USDA workplan. Peery will send the SOW to Lorz.