

Subject: Final minutes for the 14 December 2023 FPOM meeting. The meeting was held via WebEx, from 0900 until 1200.

In Attendance:

Last	First	Agency	Phone	Email
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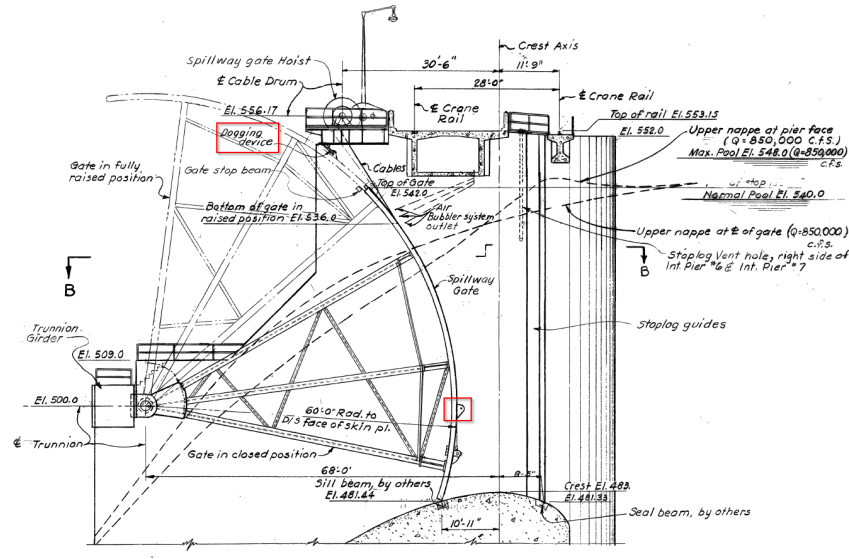
1. Final actions or decisions.

- 1.1. November FPOM minutes approved.
- 1.2. Site visit at BON to see the lamprey collector. Contact Macdonald for details.
- 1.3. MCN crane status updates will be provided at FPOM and FPOM task group meetings.
- 1.4. LWG tailwater sensors. Van Dyke would like the broader group to know the same details that were discussed by Peery, Swieca, and Conder when they had their phone conversation. A MFR would be the best way to capture details from discussions in other forums about this topic.
- 1.5. The January 2024 FPOM will be Mackey's last FPOM meeting as co-chair, meeting minutes taker, and webmaster.

2. FPOM Action Items

2.1. NWW

- 2.1.1. [Dec 23] LMN bays 5 and 7. **ACTION ITEM:** Peery will ask about the timelines and potential gearbox switching. **STATUS:** Lower Monumental expects parts to repair gates 5 and 7 to arrive by mid-March. It will take one week to make repairs for each gate. They will start with bay 5.
- 2.1.2. [Dec 23] LMN bays 5 and 7. **ACTION ITEM:** Peery will inquire about the dogging abilities of the tainter gates. **STATUS:** See below marked up screenshot from a drawing of the spillway gates. As you can see, there is a dogging device that is designed to hold the weight of the gate while it is in the fully raised position. This dog is there for maintenance purposes so that wire ropes and other hoisting components can be worked on with the gate raised. There are no other dogging points available. Also, as can be seen from the below figure, the pick point for the gates is below roadway and so these tainter gates cannot be lifted by a crane.



2.1.3.[Dec 23] LWG transformer maintenance. **ACTION ITEM:** Peery will provide an update regarding how long the maintenance work should take.

2.2. NWP

- 2.2.1.[Dec 23] 22JDA20 MFR JDA-S Temps. Incorporating 2023 data into the memo. Macdonald wanted to make sure Juhnke is aware of the memo. **ACTION ITEM:** Mackey will send the updated memo to FPOM and post to the website once Lotspeich has it completed.
- 2.2.2.[Dec 23] 18JDA02 MOC Trash rack replacement. Contract will be written for FY24. Another year until next FY. Will be a replacement and not a refurbishment. **ACTION ITEM:** add to next FFDRWG agenda.
- 2.2.3.[Nov 23] CRITFC Member Tribes Lamprey Trap. **ACTION:** Macdonald will draft the MOC with the design concepts so FPOM can review a thorough plan. He will have this by the December FPOM meeting. **STATUS:** still pending. Macdonald will put the design concepts and maps into a MOC. TDA has advantages over BON though BON is still targeted for some time in the future. Lotspeich asked about the JDA location. Macdonald said no issues with JDA, TDA was just an easier location for prototype testing.
- 2.2.4.[Nov 23] Avian end of season review. Lorz asked if there would be an end of season review. It was a good meeting to help the Region understand what was going on and what might need to be changed for the upcoming season. **ACTION:** Mackey will work with Bettin and Lorz to develop an agenda and schedule the meeting. AFEP Avian presentations may be included. **STATUS:** still pending. Mackey will work with Lorz over winter break.
- 2.2.5.LAWG: Next quarterly meeting will be Nov. 16-17. Porter asked Macdonald to capture all of the email strings prior to the LAWG meeting. **ACTION:** Macdonald will take care of that. **STATUS:** completed.

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

- 2.3.1.[Sep 23] Avian Lethal take. **ACTION:** Peery will update the lethal take spreadsheet. **STATUS:** Sent and posted. In an email to Peery and McDowell, Swank had asked why lethal take numbers were higher this year than last year. Borchert said there were several reasons:

- i. “We had staffing issues so that meant we weren’t going to be on-site for 16 hours a day, so I asked our field staff to be more aggressive in training birds so that the hazed birds would stay away when we weren’t there.
- ii. We had a different skill set from seasonal employees on some of the projects to allow for take different than years past (aka no birds were taken at McNary in 2021 and few were taken in 2022).
- iii. We had less of a need to take at other projects we work throughout eastern Washington so we had a redistribution of allowable take numbers compared to years previous.”

Van Dyke said he didn’t see that explanation in the document.

2.3.2.[Nov 23] 23LMN12 MFR spillgate 5 and 7 repair. **ACTION:** Peery will find out how LMN spillbays could be operated with a crane so the spill patterns can be somewhat normal and Lorz won’t be pushed into an early retirement from the stress.

2.3.3.[Nov 23] Lawonn reported that ODOT and ODFW will present to the NWPCC the status of the bridge colony. He invited others to join. **ACTION:** Lawonn will send the meeting info to Mackey so she can send to FPOM. **STATUS:** *Krasnow provided the link to the meeting.* https://nwcouncil.org/fs/18524/2023_11_3.pdf

3. FPOM 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. Nov 28-Jan 31. T1C first and then T1B. going forward as planning.

3.1.1.2. 23 LGS Unit 5 Commissioning. Postponed to Fall/Winter 2023. Going forward as planned.

3.1.1.3.LGS Fishway Cooling Pump Repair/Replace. New pump will be delivered in the summer of ’24. Third pump has been ordered. Contract still moving forward for the on-site pump to be repaired. Engineering confirmed that the pump issues were more related to wiring and leakage was due to installation. With this info, it was determined that changing runtime for the temp trigger wouldn’t be beneficial. Conder pulled the FPP change form due to the updated info. Lorz confirmed one pump in July and the other two will be available sometime later. Peery confirmed that is the plan. **STATUS via email from Peery on 231215** - *We had a call with Little Goose Dam yesterday afternoon to discuss the status of fishway cooling pumps. The project had heard back from the shop making repairs to the first pump and they have found other issues that will need repairs. Options to proceed are to expedite a new contract to repair the first pump (have to retrieve this pump from Florida first) and/or order a second new pump. Nether option will provide a pump until July or later. Contract to repair the second pump is being expedited.*

3.1.1.4.23LMN12 MFR spillgate 5 and 7 repair. Leadtime is 12 weeks for first two sets and 17 weeks for the remaining. Looking at end of March for parts to arrive. May have bays back in operation by the start of spill. Continued maintenance will occur throughout the year, as outages can be scheduled. Cranes cannot be used because the gates have to be all the way open or all the way closed when controlled by the crane. The hoists are critical for moving and holding gates in the spill pattern positions. Without the gearboxes, the hoists cannot operate. Discussions should occur now if there are proposed changes to the current plan. Lorz has concerns about not having bays 5 and 7 in the spill pattern if the parts don’t arrive on time. If needed, can the gearboxes be transferred from other gates so bays 5 and 7 can be used. Lorz said if maintenance can commit to having the bays ready by 3 April, then there is no need to

move the gearboxes but if they can't, he would like to see gearboxes moved so we can guarantee bays 5 and 7 are available. Van Dyke brought up the gear wear issue. Peery said that is being discussed and there is a strategy for ensuring gears are aligned properly. Van Dyke asked what it is about the dogging that prevents the gates from being dogged at a position other than full open or closed. Peery thought there may not be a dogging pin/hole for the gates, he wasn't sure though. **ACTION ITEM: Peery will ask about the timelines and potential gearbox switching. He will also inquire about the dogging abilities of the tainter gates..**

- 3.1.2.**MCN crane status. Peery received a request for more meetings or a formal group. NWW prefers to keep the discussion within FPOM and the framework of the task groups. Lorz suggested 20 December would not be ideal for those who plan to visit with family over the winter break. ODFW has concerns about getting updates. Barnes said he doesn't think providing updates will be an issue. Conder said the 4th Thursdays would be fine and he noted that the date is the 28th, not the 20th (as Lorz suggested). **Updates will be provided at FPOM and FPOM task group meetings.** Barnes will get a meeting on the calendar for SRWG to discuss MCN. Hesse noted that the Nez Perce didn't sign the memo but they are supportive of it. Lorz asked if there would be a written response to the memo sent by the Tribes/CRITFC. NWW does not want a letter writing campaign. FPOM wasn't fully embracing the verbal updates at FPOM by Peery, as opposed to a written response or having additional experts report at FPOM. Peery assured FPOM that he would consult with all who need to be consulted with within NWW and provide whatever updates he can but he cannot commit others outside his section to attend and report out.
- 3.1.3.**MCN ERDC Model. Funding limited. Will have a design for regional review, with model runs in September/October, though August is the goal. Juhnke said they have finalized the scope and will be meeting with ERDC on 14 December. There will be additional coordination to make sure all objectives will be met. Expect monthly updates through FFDRWG. Hesse asked if the model will be able to look at gates in upstream and downstream slots. Juhnke said Laughery said yes but still need to confirm with ERDC. Conder asked when the Region should start making travel plans. Juhnke said more details will be provided once the models are calibrated. This is a new model, with new materials, so there will be some learning curves. FFDRWG can expect trips to occur sometime in August – October.
- 3.1.4.**LWG tailwater monitors/LGS pool levels. Conversations are still occurring within the Fed Family. Peery, Swieca, and Conder did some analysis. Data is messy and influenced heavily by flow and spill levels. Peery said fishway criteria is influenced by the fishway pumps and condition as they are getting worn out and tripping off. Fishway criteria in itself is not determinate of what tailwater should be or not be. Conder agreed with Peery's assessment and said there was an agreement by RCC to look further into where tailwater is measured to control minimum tailwater at LWG. Hesse asked how others will be involved in the discussion. Conder said the RCC technical folks were looking at different tailwater monitors and if the median should be used, or not as a more representative measure of the tailrace elevation. RCC will look at the monitor data and which path forward might be pursued. Hesse asked for a timeframe and in which forum the decision will be made. Conder said he expects an answer back within a couple of weeks, but suggested bringing those questions to TMT for a more exact answer. Hesse asked if the decision will be finalized before the 2024 spring operation. Conder said that is his hope. Hesse clarified that it NEEDS to be done and shouldn't have taken this long to get this done. Lorz asked if the work on the pumps could be done sooner if additional funds free up. Peery said this is work that could be funded under the additional funding and NWW has the initial prep work done. Peery did not know if there are personnel resources available. Lorz asked if the Region would have input on funding priorities if funding did

come available. Peery said the FPOM O&M spreadsheet has these items on there but there are also other opportunities to provide input. Van Dyke asked if these decisions are just going to be discussions and not documented in writing. Peery said the specific discussion regarding LWG will occur in TMT. Van Dyke would like the broader group to know the same details that were discussed by Peery, Swieca, and Conder when they had their phone conversation. **A MFR would be the best vehicle to capture the FPOM/TMT/ other forum discussions.**

3.2. NWP Updates

3.2.1. Upcoming coordinated maintenance/construction/research activities.

3.2.1.1. 19BON001 MOC Navigation Lock 1 Bridge Replacement. No FPP conflict. Work may not begin for many years.

3.2.1.2. BON PH2 Tailrace crane replacement. Work will occur during winter 25/26. No update.

3.2.1.3. 19TDA04 MOC – East side powerhouse crane rails. No new update. Looking at resuming work this winter. May be pushed to spring but no specific update.

3.2.1.4. 18JDA02 MOC Trash rack replacement. Contract will be written for FY24. Another year until next FY. Will be a replacement and not a refurbishment. **ACTION ITEM: Need to add to the next FFDRWG agenda.**

3.2.1.5. 20JDA04 MOC STS crane replacement. In the fabrication portion of the contract. Construction will start next June, commissioning to occur at the end of summer 2024. On track.

3.2.1.6. 22JDA20 MFR JDA-S Temps. Incorporating 2023 data into the memo. Macdonald wanted to make sure Juhnke is aware of the memo. **ACTION ITEM: Updated memo will be sent to FPOM.**

3.2.1.7. 23JDA03-05 JDA -S fish turbine pumps 1 and 2 operating at reduced output 55 rpms, 3 OOS for gearbox repair. Anticipate having pump 3 ready for the start of fish passage season.

3.2.1.8. JDA north pump #4. Budget request has been submitted. No funding received yet. Looking at submitting an FY26 budget package. Lorz asked about pump #5. Lotspeich didn't have any specific information on the status. Update will be provided at the January meeting.

3.3. NWS updates. No NWS attendees.

3.4. Research/FFDRWG

3.4.1. FFDRWG.

3.4.1.1. NWP December FFDRWG was cancelled but there is a site visit to BON on 20 December to see the dewatered BI fishway.

3.4.1.2. NWW may have a site visit to the MCN fishway. It will only be dewatered to tailwater and not a complete dewater.

3.4.2. SRWG. Special SRWG on 18 December at 0900 to discuss MCN.

3.4.2.1. In-person AFEP Annual Review on 24 January 2024. Planning with BPA to get an agenda and a location. Macdonald is open to location suggestions. He is currently leaning towards the Auditorium at BON.

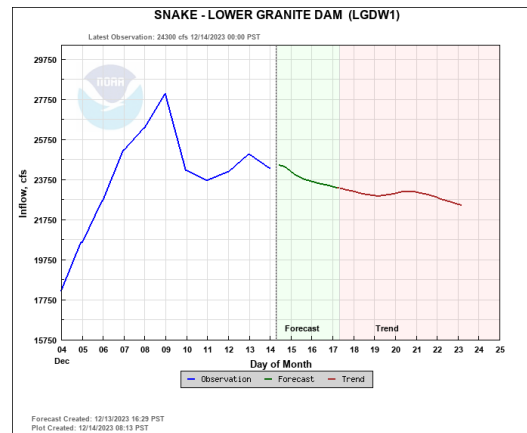
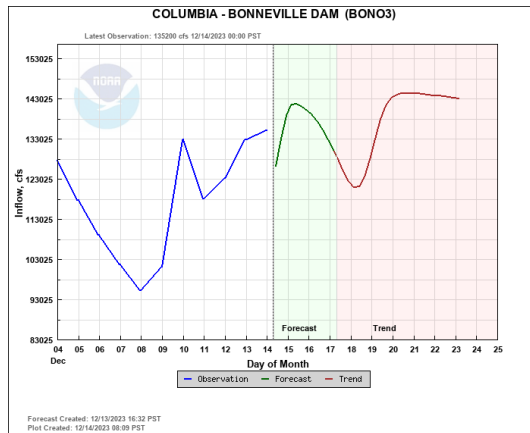
3.5. RCC update.

3.5.1. Hesse asked about the variability at LWG. He said the average number doesn't really paint a real picture of the conditions. Baus shared his screen so everyone could see the variability. Hesse has concerns about how daily flows will be managed given the repair operations and the variability of flow. Peery said the plan is to limit generation during

work on the transformers so it will be min gen and spill the rest during the day. **ACTION ITEM:** Peery will get an update on how much longer the maintenance work should take.

Table 1. Previous Day Average Outflow and NWRFC Inflow Forecast.

Project	Previous Day (12/13) Avg. Outflow (kafs)	5 Day (12/18) Forecasted Inflow (kafs)	10 Day (12/23) Forecasted Inflow (kafs)	Forecasted Inflow Low/High (kafs)
LWG	20	23	22	22 (12/13) / 24 (12/14)
MCN	114	109	132	109 (12/17) / 133 (12/20)
BON	135	128	143	121 (12/18) / 144 (12/20)



Project Data: <https://pweb.crohms.org/report/projdata.htm> NWRFC Inflow Forecasts: <https://www.nwrfc.noaa.gov/rfc/>

3.6. Avian updates 10:30AM

3.6.1.NWW – cormorants roosting at MCN. Not a lot of active feeding. IHR has gulls hanging around; shad numbers decreasing so feeding activity is decreasing. Discussing work to be completed on Badger and Crescent Islands. Looking at low tech options, such as brush placement. Will focus on the shoreline areas this year. Crescent Island had a high number of terns nesting in a specific spot so that location will be dealt with as well. Lorz offered to get out of his office and into the field to help.

3.6.2.NWP

3.6.2.1.JDA – weekly averages - 21 gulls foraging/ 90 hanging around. 1 DCCO foraging/30 hanging around. 3 grebes. 5 pelicans. USDA replacing lines prior to spill season.

3.6.2.2.TDA – several 100 gulls, mostly non-foraging. Seem to high the shad cycled up by barge traffic. 30-40 DCCOs around project.

3.6.2.2.1.Miller Rocks – No update this month.

3.6.2.3.BON – low bird numbers.

3.6.2.4.Lethal Take Permit. Permit should be in place, and USDA ready to implement for spring 2024.

3.6.2.5.Estuary. Reports are available at [Documents / FPOM Avian Hazing Task Group \(crohms.org\)](https://pweb.crohms.org/FPOM-Avian-Hazing-Task-Group). Getting ready for next field season. Draft reports will be available next month and final versions will be posted in February. Working with RTR so they can get their annual report out by the end of December.

3.6.2.5.1.Astoria Megler Bridge. No update.

3.7. Fish Count Program (Peery, Wertheimer). New contract due in 2024. Video counts at BON and LWG. Hope to have the internal contract proposal review completed this week and the award posted by the end of the month. New contract will start 1 March.

3.8. BPA Update. Schedule available on the FPOM website.

3.9. Pinniped update.

3.9.1. BON. States submitted final removal report to NOAA; it summarizes three years of data/actions. FFU draft report will be ready for review next month.

3.9.2. Willamette Falls. van Dyke reported that ground surveys occurred in the fall. No pinnipeds currently. Removal efforts took out 19 Stellers and 0 Californias.

3.10. Lamprey update

3.10.1. BON. Contractors are installing the B-Branch LPS. Optical counter work continues. FFU is working to direct optical counter counts directly to the fish count system.

3.10.2. TDA. Got the junction pool dewatered a week late. Contractor working on the LPS. Expect to have it installed this week.

3.10.3. JDA. LPSs are winterized. PNNL meeting to discuss telemetry project.

3.10.4. NWW. No updates.

3.10.5. LAWG: Juvenile lamprey study at MCN and JDA.

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

4.1. NWW

4.1.1. 23 IHR 11 MOC Concrete Removal to Support Navlock Gate Replacement.

4.1.2. 23 LMN 15 MFS T2 Cooler Repair Extended. No additional comments.

4.1.3. 23 LGS 13 MFR Emergency Line Outage. No additional comments.

4.1.4. 23 LWG 11 AWS Pumps OOS. No additional comments.

4.2. NWP

4.2.1. 23 JDA 41 MFR MU-13 VBS issues. Lotspeich said JDA has been replacing hardware on 8, 16, 3, 13, 5, 14. Will continue to monitor VBSs with the ROV. No further 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/

5.2. Change Forms: No new change forms.

5.3. Invasive species removal language. No change form yet, but it will include the removal of invasive species during dewatering activities.

6. FPOM Task Group Updates.

6.1. Schedule falconry discussion (Peery/Morrill). No update yet.

6.2. MCN TSW operation in the summer (Peery). Summary of McNary TSW summer operations was sent to FPOM. Conder may have a FPP change form for this. Van Dyke asked for more discussion about design. Peery suggested this might be a good FFDRWG topic. After further discussion, it was decided this task group would have more detailed discussion on operations. There will also be further discussion at the FPP change form meeting if a change form is submitted. *Update via email from Peery on 231215 - ...Lastly, I suggest we meet to discuss McNary TSW operations 4 January, right after the next scheduled FFDRWG meeting. Please let me know if that would not work.*

6.3. MCN spillway (Peery). *Update via email from Peery on 231215 - I will be sending out an meeting invitation for the McNary Task Group meeting, 10am on the 4th Thursday of the month. If that time is not conducive for the majority we will adjust.*

6.4. Budget and Infrastructure Updates. Updated spreadsheet posted to the December FPOM website folder.

The 11 January meeting will be held at CRITFC, with a FPOM New Year gathering afterwards. This will be Mackey's last FPOM as a co-chair. She is moving to BPA in January.