

Subject: Draft minutes for the 08 August 2024 FPOM meeting. The meeting was held via Webex, from 0900 until 1118.

In Attendance:

Last	First	Agency	Phone	Email
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1. Final decisions or recommendations made at this meeting.

- 1.1. July meeting minutes – Morrill has comments forthcoming.
- 1.2. Next FPOM in-person.

2. FPOM Action Items

2.1. NWS

- 2.1.1. [Apr 24] Albeni Falls update: Morrill asked for a link once the documents are posted. **ACTION:** Huddleston will provide the link once the RFP is out. **STATUS:** Pending. *Awaiting SCO to sign off on the solicitation. Forecasting next FPOM for RFP to be out.*

2.2. NWW

- 2.2.1. [June 24] Additional Delay and Criteria for operational changes **ACTION:** Peery will set up a Task Group and meet as early as July. **STATUS:** Pending. *Peery and Conder will coordinate a meeting date.*
- 2.2.2. [Aug 24] Avian Updates **ACTION:** Peery will report out the NWW lethal permit number.
- 2.2.3. [Aug 24] 24LGS10 MFR Cooling Chimney Adult Mortality. **ACTION:** Peery will get the cooling structure drawings back out to FPOM to get an idea of what a hatch would look like and how fish would react to it.

2.3. NWP

- 2.3.1. [June 24] FFDRWG - **ACTION:** Macdonald and Barnes will work with Ryan to communicate with Huddleston about using FFDRWG as a coordination forum. **STATUS:** Pending.
- 2.3.2. [Aug 24] SRWG– **ACTION:** Macdonald will gather the SRWG review deadlines and get a reminder e-mail out to the group.

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

- 2.4.1. [July 24] LGS Fishway Cooling Pump Repair/Replace. Discussion concerning thermal blockage of sockeye passage at IHR and possible operational changes. **ACTION:** Peery will consult leadership and get a reply out later today. **STATUS:** Completed. *Peery consulted with Operations Leadership regarding usage of the Navlock to pass fish. There was no support to add additional navigation lockages at Ice Harbor Dam at this time. But they are still exploring other potential operations to improve temperatures conditions in the lower river.*
- 2.4.2. [June 24] BON PH1 Unit outages - **ACTION:** Adams will check with the environmental compliance coordinator to verify which regional regulators have been contacted for coordination and ensure the right people are being engaged. **STATUS:** The discussion with states is ongoing. *Onsite meeting with EPA and regional coordinators was productive.* **ACTION:** Adams will investigate how the shifted dollars will impact other

prioritized activities. **STATUS:** *Completed. Budget impacts do not delay any fish passage activities.*

2.4.3.[July 24] SRWG – BON B2 FGE sampling – **ACTION:** Rerecich will check with Ballinger and PNNL concerning permitting prior to proceeding with normal sampling at a 71° threshold. **STATUS:** *Completed. USACE conversed with SMP personnel on permitting.*

2.4.4.[July 24] Avian updates NWP JDA - **ACTION:** Miller will send the AWPE predation photos to the group. **STATUS:** *Completed. Miller e-mailed photos of AWPE predation to FPOM.*

3. FPOM Updates

3.1. NWS updates.

3.1.1.Albeni Falls. No update.

3.2. NWW Updates

3.2.1.Upcoming coordinated maintenance/construction/research activities.

3.2.1.1.24LWG01 MOC Trash Rake Crane -Scheduled for this winter maintenance season.

3.2.1.2.24LGS02 MOC Potential Noise - Juvenile Collection Channel. Sept 16 -24 target dates for concrete channel work.

3.2.1.3.24LGS03 MOC Unit 5 Commissioning. Expected to be in mid-November depending on flows.

3.2.1.4.23IHR11 MOC Navlock Tainter Gate Replacement -February 2025

3.2.2.LWG tailwater elevation – Change in TW to 0.7 foot above MOP. Project will monitor configuration to see if it maintains TW elevations. Associated fish pumps MOC is to be discussed at 4.1.3. Lorz asked if using the current configuration is less likely to trip pump off. Peery said they should be able to maintain criteria down to 633 with pump 2 running in place of pump 1 running, which was an issue.

CHAT from Chris Magel to everyone: 9:52 AM

is it a pump issue or an electrical issue? We used variable frequency drives to "slowly" bring pumps up to speed rather than fire them on at full speed.

3.2.3.MCN JFF early start–no update.

3.2.4.MCN crane status. Cost estimate for the SLABs came in 3 times higher than IGE. This difference in cost needs to be reassessed before moving forward. First hoist contract awarded, contracts for remaining hoists to follow. Conder inquired about the SLAB estimate if this is going to result in a delay. Peery indicated this could potentially delay the contracting process. Peery said they would need more money or a modification to the design. Lorz recommended they seek higher funding. Lorz asked if there will be a discussion on prioritizing bays for the first hoist. Peery thought this could be determined at a later date but it's a good thing to start talking about now.

3.2.5.MCN ERDC Model. Work is ongoing. The spillway is close to being done. Conder inquired about an estimated date for completion. Laughery specified they are shooting for November for construction completion and a couple months for calibration. Expected completion is next February for spill patterns.

3.3. NWP Updates

3.3.1.Upcoming coordinated maintenance/construction/research activities.

3.3.1.1.19BON001 MOC Navigation Lock 1 Bridge Replacement. No FPP conflict. Lorz noted that Sealion traps are still a concern. Flemmer ensures the concern about the traps is conveyed in PDT discussions and will update as more information comes in.

3.3.1.2.BON PH2 Tailrace crane replacement. Work will occur during winter 25/26.

- 3.3.1.3.24BON010 MOC B2FGE Post Construction Evaluation 2024** – Completed on 20 July. PNNL is working on post study data analysis. A draft is expected by end of November with the final report due end of Jan 2025. Lorz asked if they adhered to the schedule in the implementation plan. Fielding informed FPOM that the schedule and implementation plan was adhered to.
- 3.3.1.4.19TDA04 MOC East side powerhouse crane rails.** No updates
- 3.3.1.5.24TDA03 MOC TDA MU22 Priority - Still operating MU22 as priority**
- 3.3.1.6.18JDA02 MOC Trash rack replacement.** No update
- 3.3.1.7.20JDA04 MOC STS crane replacement.** Two weeks delay due to issues with the motor. Contractor will hand over the crane end of next week. Old crane will be deconstructed after a 60-day breaking period (Oct-Nov timeframe).
- 3.3.1.8.24JDA08 MOC Backflushing SFP Intake with Compressed Air Operation** was performed last month. It was ineffective and remaining scheduled backflushes have been cancelled. Lorz asked how the project determined it did not work. Miller said they used an ROV inspection before and after the backflush and there was no change. Lorz inquired about the type of debris. Miller said it was woody debris.
- 3.3.2.JDA north pump #4.** Funded for FY25.

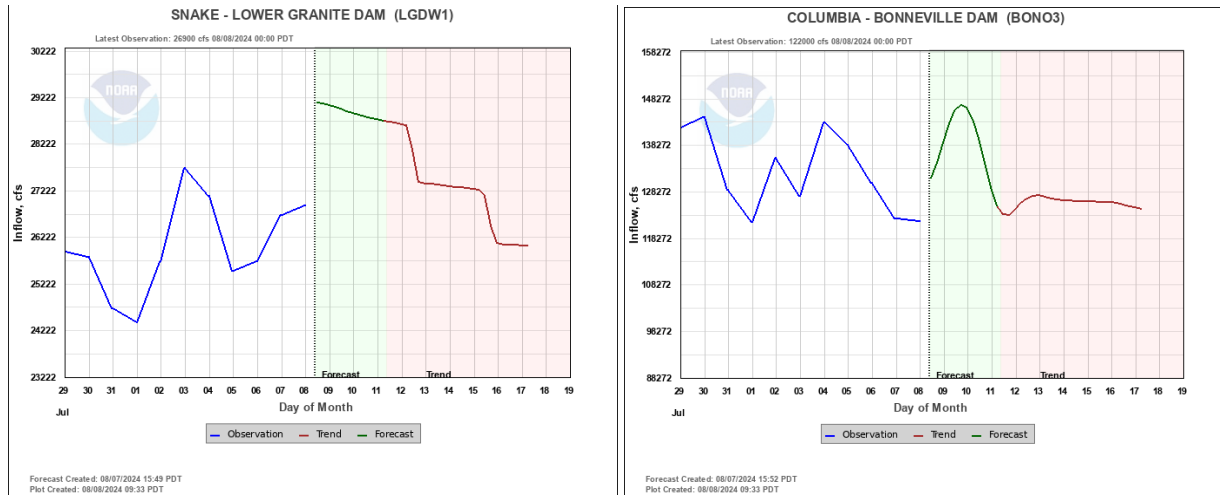
3.4. Research/FFDRWG

- 3.4.1.FFDRWG.** Macdonald – update on PSFMC Pit antennae design for B1 ice and trash sluice. Next meeting 5 Sep with BON spillway rock mitigation and TDA backup AWS debris management project and new MCN turbine design updates.
- 3.4.2.SRWG.** Macdonald wants to check in with Swank and Van Dyke to provide input on a few topics from the last SRWG meeting. Swank and Van Dyke said they have received the e-mail. Lorz asked when proposal comments were due. **ACTION:** Macdonald will gather the SRWG review deadlines and get a reminder e-mail out to the group.

3.5. RCC update.

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

Project	Previous Day (08/07) Avg. Outflow (kcfs)	5 Day (08/12) Forecasted Inflow (kcfs)	10 Day (08/17) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	26	29	26	26 (8/17) / 29 (8/8)
MCN	114	123	120	118 (8/11) / 143 (8/9)
BON	120	126	125	123 (8/11) / 147 (8/9)



3.6. Avian updates **10:30AM**

3.6.1.NWW –MCN bird counts-19 gulls per day, DCCO 3 per day, terns 62 this month, AWPE 20 per day, and Grebes 21 per day. At IHR– gull 13 per day, DCCO 3 per day, 19 per day, 2 Grebes, AWPE 13 per day. At LMN bird counts– gulls 14 per day, DCCO 3 per day, 12 terns this month, 3 AWPE per day. LGS bird counts-gulls 29 for July, DCCO 2 per month, terns – 1 sighting, and AWPE 3 per day. LWG bird counts 29 gulls 54 DCCO. At LWG bird counts 29 gull, DCCO 54 and AWPE 2 for the month.

3.6.2.NWP

3.6.2.1.JDA – 100 AWPE per day and 100 on the islands, 8 DCCO, hazing has completed. Lethal take for the season - 46 CAGU, 1 RBGU, 1 DCCO.

3.6.2.2.TDA – 31 July hazing ended. Lethal take of 341 gulls of allotted 400. Collected 250 stomach for YN and Kramer Fish Sciences DNA study. Currently there is 300 AWPE in TW nocturnal feeding, 50 DCCO, 100 gulls, ODOT still turning off lights between 1100-0400. Shrouds for lights are still being discussed. Van Dyke asked about monitoring of nocturnal feeding. Grosvenor indicated Day goes out late and notes feeding. Morrill asked about permits. Peery said they are separate permits per district. Morrill requests take permit numbers for NWP and NWW. NWP has previously mentioned as 400. **ACTION:** Peery will report out the NWW lethal permit numbers.

3.6.2.3.BON – Bird numbers are increasing, CC outfall 50-80 gulls and 20-60 DCCO per day. Lorz asked about bird wires at outfall. Flemmer said they were still intact.

3.6.2.4.Estuary – East Sand Island -3,500 terns, Cap flight 3,471 from July flight. Single and double egg nest. First tern chicks of the season up to 23 so far, several hundred DCCO on the west end of the colony. Rice – Dredge activity on west end of the island in the bowl. One CATE observed below wrack line 22 pelicans. On the pilings, 218 DCCO. At Miller Island 4 DCCO and 13 pelicans. At Pillar Island no CATE, DCCO or AWPE. Lawonn asked how many scraps and how many eggs. Braun said they have not enumerated scraps. Nests with eggs are difficult to enumerate. Lawonn asked if behavior was indicative of nesting. Braun said not many. Lawonn noted that 1,700 breeding pairs is under threshold abundance for ESI management plan. Wertheimer added FFU presence on ESI is minimized to decrease disturbance of the colony while fulfilling management objectives.

3.6.2.4.1.Astoria Megler Bridge. A few navigation lights are out on the bridge thoughts are that DCCO have contributed to erosion of conduits. ODOT and ODFW have been coordinating on management of the bridge. Reached out to RTR informally on unmonitored DCCO colonies regarding predation rates. At the towers RTR

reports high predation rates and the same may apply to other colony sites. Planning ahead for possible results of management of the bridge. Morrill asked about disease signs similar to last year. Van Dyke asked if there was collection and coordination to identify the cause of mortality. Braun said they have not, only one or two a month has been observed. Peery said for the upriver island they have not been back there to observe.

3.7. Fish Count Program (Peery, Wertheimer). Due to fire activity and evacuations some counts were delayed. Counts were done via video and are now caught up.

3.8. BPA Update. Update pending and will be posted to the Webpage.

3.9. Pinniped update.

3.9.1. BON. Pinniped numbers are being monitored and remain under the 20-animal trigger.

3.9.2. Willamette Falls. No update.

3.10. Lamprey update

3.10.1. BON – Traps and LPSs are running. Floating collector is in at the hatchery CBB building.

3.10.2. TDA – LPS on east ladder started 25 July joint trap-n-haul operation between project, FFU, and CRITFC staff to move lampreys for trap-n-haul. On 6 Aug CRITFC took over trap-n-haul for the remainder of the season. Planning on shutting LPS down the end of September. A few adjustments to the water supply line will be worked this fall.

3.10.3. JDA- NWD engineers coming out to look at the LPS water supply to assess repair needs.

3.10.4. NWW – Past halfway point for Snake River migration. Counts are above the average at the Snake River projects.

3.10.5. LAWG- Floating collector is floating at the BON hatchery. Macdonald commented that fish are swimming through it. Lampman and Jackson have been working on testing and tweaking at the hatchery. It's not yet ready for deployment but a good first step. Swank asked if there were lamprey in the tank to swim through it or how were they swimming through it. Macdonald clarified that lampreys are being placed in the tube and CRITFC is still working on volitional passage.

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

4.1. NWW

4.1.1.24 LWG 02 MOC Annual Spillway inspections -no comments

4.1.2.24 LWG 03 MFR Fire Evacuation – no comments

4.1.3.24 LWG 04 MOC Fish Ladder AWS Pump 2 Return to Service - Van Dyke asked if this was gravity fed or electricity and if this was on the station service, is there generation. Stoeckig-Dixon - It is not gravity it's electricity. Peery added there is no generation from running those pumps. McNary north shore is the only location that provides generation through the [Chelan] PUD. Conder commented this is a long-awaited fix and he appreciates the work moving forward to get the fish pumps to full range of capability and maintain fish ladder criteria. Lorz echoes Conder, he asked if the other two pumps were on regular rehab cycle or if they needed any extended rehab. Holdren said they rehab them every year in rotation and sometime in April or June RTS. Morrill asked about the rehab. Holdren indicated they do a pretty in-depth rehab during the cycle. Peery noted that long term all the fishway pumps were on the list to be assessed and LWG pumps are on the list for funding. Conder wanted to confirm that when pump 1 is RTS it will have full capability. Holdren said "no" the pump will continue to trip due to the design. Conder asked about modifications. Holdren replied that it trips whenever they are in MOP and no solution has been found.

- 4.1.4.24 LGS 08 MOC T1A MOD Repair, Powerhouse Outage – Completed on 5 Aug. T1 units 1-4 operating at Goose. Van Dyke asked if the T1 MOD repair affected water management, specifically, MOP. Peery didn't think this operation had any impact on MOP levels and there was more concern about maintaining tailwater at 68 degrees.
- 4.1.5.24 LGS 09 MOC FLCP Electrical Cable Status Inspection – Completed on 5 Aug. Lorz asked if this was an annual thing. Peery said they may check on this again, but it hasn't been decided. Week of 15 Sept would be a good time frame. Conder asked about status of back up pumps. Peery said there are parts needed to complete repairs for pump 2 and pump 3, returned from Florida, is sitting in the PH awaiting a contract for repair.
- 4.1.6.24 LGS 10 MFR Cooling Chimney Adult Mortality – The project is monitoring and will be using video to collect data. Van Dyke noted there was a recommendation to screen the bottom. Peery said there is a hatch there now and due to the difficulties of opening and closing it has remained open. There are currently two adult salmonids in there. Snyder recommends a modification to ease opening and closing. Snyder described an observation of a salmonid jumping at the spray. Van Dyke asked about possible netting to prevent access to that area. Conder discussed the depth and possible temperature differences between the cooling structure and the exit hatch preventing fish from exiting. Two potentials for fish getting in there, fish jumping and sounding down and entering in that way. **ACTION:** Peery will get the cooling structure drawings back out to FPOM to get an idea of what a hatch would look like and how fish would react to it.
- 4.1.7.24 LMN 02 MOC Line Outage Request to RTS T2 – T2 is out due to arcing. They will need an outage to remove the jumper and put T2 back in operation. This is scheduled for 27-28 Aug. Van Dyke asked if the T2 outage would affect navigation lockages and elevations at other dams. Is there a consideration to manage other aspects of operation. Peery said they need a PH outage to work safely on power system U1 ST speed no load. Should not have an impact on TW level.

4.2. NWP

- 4.2.1.24BON012 MOC B1 Fish Salvage Operations on Oil Leak Investigation Units_REVISED – no comments
- 4.2.2.24BON024 MFR CI LPS RB4 and RB5 Pacific Lamprey Mortalities – Lotspeich asked why these LPSs are seeing so many mortalities and why there are no suggestions to make changes. Flemmer said they check temps regularly and they do not differ from the river and thinks this is the stress of passing these long systems. No specific reasons have been found for the mortalities. Disease and stresses of migration were discussed as possible contributors. Morrill inquired about temp differentials throughout the day and if that is causing thermal stress. Flemmer said there are temperature probes in each LPS that are monitored, and they match the river temps. Morrill noted that the intake levels may see temps that are in the 75-76 degree range in the summer. Flemmer will take a closer look at temps. Van Dyke asked if this is a work group topic. Swank said no, but recalls research done on pathogens as a possible cause of the lamprey mortality. Silver didn't have the details of the study but agreed it would be a good topic for the work group. Conder identified Ken Luhan as the researcher. Hausmann added that prior to the LPSs being installed a production of lamprey mortality MFRs were generated which spurred the research by Luhan.
- CHAT from Dave Swank to everyone: 10:56 AM
What is the "pond" in the CI LPS
- CHAT from Jeanette Flemmer to everyone: 11:15 AM
the pond is an upwelling box in the middle of the CI LPS above the location of 2 small submersible pumps which provide water to the lower half of the CI LPS.
- 4.2.3.24BON025 MFR WA Shore AWS RB1 Pacific Lamprey Mortalities-no comments

- 4.2.4.24BON026 MFR CI LPS RB3 Pacific Lamprey Mortality – no comments
- 4.2.5.24BON027 MFR CI LPS RB3 Pacific Lamprey Mortality - no comments
- 4.2.6.24BON028 MFR WA Shore UMTJ RB2 Lamprey Mortality – no comments
- 4.2.7.24BON029 MFR Adult Fish Facility Sockeye Mortality – no comments
- 4.2.8.24BON030 MFR CI LPS Pond Pacific Lamprey Mortality – no comments
- 4.2.9.24BON031 MFR CI LPS Temporary Shutdown – two pumps on order. No comments.
- 4.2.10.24BON032 MFR Unit 18 Forced Outage STS Mesh Repair – no comments
- 4.2.11.24BON033 MFR AFF Sockeye, Juvenile Chinook, and Adult Pacific Lamprey Mortalities - no comments
- 4.2.12.24BON034 MFR AFF Trap Walkway Pacific Lamprey Mortality – no comments
- 4.2.13.24BON035 MFR JMF High Temperature Protocol Deviation for B2FGE – Rerecich coordinated with the SMP head biologist Dean Ballinger. Van Dyke commented that recommendations made for this coordination did not see any action and it would be appreciated in the future. Fielding indicated there was a time constraint and things would be done differently next time around.
- 4.2.14.24BON036 MFR AFF Valve 15 Pacific Lamprey Mortalities
- 4.2.15.24BON037 MFR PH2 Fish Unit 2 Outage – No comments
- 4.2.16.24BON038 MFR Salmonid Mortality – Corrected to Chinook mort.
- 4.2.17.24BON039 MFR Unit 16 Outage for STS Repair – No comments
- 4.2.18.24BON040 MFR CI LPS Pacific Lamprey Mortality – No comments

5. Fish Passage Plan

5.1. Final 2024 FPP went into effect March 1 and is available online at:

<https://pweb.crohms.org/tmt/documents/fpp/2024/>

5.2. Change Forms

5.2.1. NWW projects - Project maps with updated temperature monitor locations (Peery) – No comments

6. FPOM Task Group Updates.

6.1. Adult Fish Passage Delay Criteria (TBD) – Still working on a plan for meeting.

6.2. MCN spillway (Peery). Next meeting in two weeks, on 22 Aug.

6.3. Budget and Infrastructure Updates. Posted at

<https://pweb.crohms.org/tmt/documents/FPOM/2010/> under the Plans, Lists and Charts section updated with new comments or ranking. No updates received. Send ranking to Peery.