

Subject: Draft minutes for the 16 January 2025 FPOM meeting. The meeting was held via Webex, from 0900 until 11:54.

In Attendance:

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1. Final decisions or recommendations made at this meeting.

1.1. December meeting minutes have been approved.

2. FPOM Action Items

2.1. NWS.

2.1.1. [Dec 24] **ACTION:** Working on getting an NWS representative on the FPOM call.

2.2. NWW

2.2.1. [Oct 24] 24LWG02 MOC Annual Spillway inspections. **ACTION:** Peery will inquire if information could be shared with the region. **STATUS:** *Inspection summary from LWG has been sent. Peery is gathering information and will get an inspection summary out for some of the other projects.*

2.2.2. [Jan 25] BPA updates. **ACTION:** Peery will investigate the outage schedule.

2.3. NWP

2.3.1. [Jan 25] 24BON063 Updated MOC WA Shore Control Section Redesign-Extension Request (Project Operations 1-15 March). **ACTION:** Madson will schedule a special FPOM meeting with Steve Schlenker on 17 January to discuss feasibility of alternative operations.

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

2.4.1.[Dec24] MCN ERDC Model. **ACTION:** Peery will send to FPOM the model runs that planned so far. **STATUS:** *The list of Physical Model Runs has been sent to FPOM and included with the December minutes.*

2.4.2.[Dec 24] 24JDA22 MOC LPS Modification Construction Near the NFL. **ACTION:** The MOC will be updated with more detail and a better image/diagram of the proposed work. **STATUS:** *Completed. Additional information and diagram of proposed work has been sent 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 -no change. Not determined when the crane will be available and installed.

3.2.1.2. 24LGS02 MOC Potential Noise - Juvenile Collection Channel. – *March 2025*; but may be falling behind schedule, more information to come available

3.2.1.3. 24LGS03 MOC Unit 5 Commissioning. – Targeting *January 2025* but the project is working through some issues with the unit that may push it to February.

3.2.1.4. 23IHR11 MOC Navlock Tainter Gate Replacement –On track for a *22 February 2025 Start*.

3.2.2. LWG tailwater elevation – no update.

3.2.3. MCN JFF early start and fish collection for telemetry evaluation – Collection start of 24 March with the first sample (tag group released) planned for 27 March.

3.2.4. MCN crane status. The cranes need to be rated at 400 tons, once the Phase 1a is finalized the project can move to Phase one design portion. Handrails are being assembled. Lorz asked if SLABs would be coming in 2026. Peery said due to delay in contract and need to resolicit it may not be available by spill of 2026.

3.2.5. MCN ERDC Model. Model should be completed by the end of the month. Calibration process has started. Physical model runs week of 6-14 February. Travel Sunday and Friday, Model runs Monday-Thursday. Conder wants to see tailrace effects of open and closed spillbays 1 and 2 runs under high, medium, and low flow levels. Van Dyke is interested in velocities around the shelf in the tailrace and mentioned past issues with how water is delivered in the model. He asked where the water being delivered from. Peery is unsure the model is supposed to mimic real conditions. Brooks asked if the dye release videos would be made public. Peery thought they would. Morrill asked about a walkway access and the impact on observations if the flow comes in from the side. Peery responded that he assumed there would be a walkway, and they would be placing baffles to help the flow move perpendicular (downstream) before it gets to the spillway. Peery is working on the travel and reservations for the group trip.

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 update

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

3.3.1.3. 24BON012 MOC B1 Fish Salvage Operations on Oil Leak Investigation Units _REVISED.-PH1 finished up MU10 fixed blade this week. On MU6 cracks were found in the shaft, interim repair until the PH1 units are done.

3.3.1.4.24BON063 MOC WA Shore Control Section Redesign-Extension Request -all weirs demolished some, embedded rebar to be removed from around new PIT antennae locations. A couple weir forms are constructed. First weir is to be poured today. Lorz asked about the schedule. Flemmer said they are on the schedule for the 15 March target.

3.3.1.5.19TDA04 MOC East side powerhouse crane rails. No update.

3.3.1.6.18JDA02 MOC Trash rack replacement. No update

3.3.1.7.20JDA04 MOC STS crane replacement. On site doing testing this week and load testing next week. Demolition of the old crane will start 10 Feb. MU1 will be out of service during demolition work.

3.3.1.8.24JDA16 MOC MU-2 Extended 5-Year to PIN Blades and Delayed 5-Year Maintenance for MU-1. MU-2 was forced back out of service and MU1 had to return to service, it does not look like the MU-1 5-Year will fit into the coordinated schedule. The plan is to do an annual on MU-1 during the crane demolition as it will be OOS at that time. Updates on the 5-year maintenance will be presented next FPOM.

3.3.1.9.24JDA17 MOC Response to Delayed Repairs on JDA SFL AWS Turbines 1 and 2 Meeting today to discuss repairs. Reevaluating the scope for the project due to it coming in over budget.

3.3.1.10.24JDA22 MOC LPS Modification Construction Near the NFL. Will be able to reuse some of the old anchoring and that will reduce some of the drilling.

3.3.2.JDA north pump #4. Funded for FY25. Funding shortage for required work to take the pump out. Looking at the plan to see what can be done with funds available. Lorz asked about work on pump #2. Miller said pump#2 will not be done this winter. Pump#2 is used as last on first off unit. Looking for funding on pump#2. Van Dyke inquired about the timeframe for an annual and a 5 year. Miller conveyed that an Annual is 4 days, 5yr maintenance is 7-8 weeks.

3.4. Research/FFDRWG

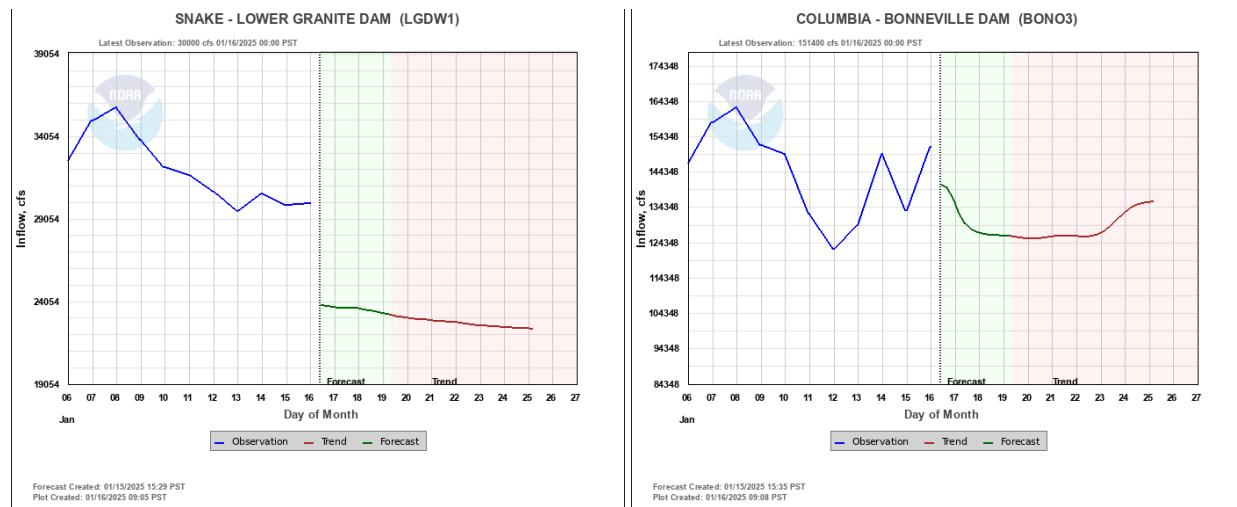
3.4.1.FFDRWG. - Comment due today for the 50% DDR AWS submittals. Next meeting will be 6 February, Ashcraft has some avian documents that will be sent out soon with a two week lead time to discuss the avian alternatives at the next FFDRWG..

3.4.2.SRWG. – Planning cycle is kicking off for FY26 on 18 February, meeting time will be moved Macdonald proposes 12:00 – 13:30.

3.5. RCC update.

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

Project	Previous Day (01/15) Avg. Outflow (kcfs)	5 Day (01/20) Forecasted Inflow (kcfs)	10 Day (01/25) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	30	23	22	22 (01/25) / 24 (01/16)
MCN	130	110	123	110 (01/19) / 124 (01/16)
BON	141	125	136	125 (01/20) / 141 (01/16)



3.6. Avian updates 10:30AM

3.6.1.NWW –No updates. PDTs for avian wires at McNary, engineering contract to provide alternatives analysis, the report will be provided at FFDRWG.

3.6.2.NWP

3.6.2.1.JDA – USDA will replace 32 PH avian lines. Contract to replace remaining lines is in the works. Few gulls and cormorants, ~100 roosting on the towers, 10 AWPE on Preachers Island. Lawonn asked about cormorants using towers at JDA. Ricketts clarified roosting not nesting on towers. Lawonn said typically cormorants roost prior to start nesting in locations.

3.6.2.2.TDA – 100 gulls, 50 cormorants, working on 60-day falconry contract to get out. Some avian lines replacement to be done with USDA next season.

3.6.2.3.BON – no daily point counts but seeing a few cormorants and gulls in the tailrace of the spillway as well as a few bald eagles.

3.6.2.4.Estuary –Currently going through internal review for work on ESI as well as Rice Miller and Pillar. Should be out by 28 February. Prepping for 2025.

3.6.2.4.1.Astoria Megler Bridge. ODOT management meeting for dissuasion at the bridge and social attraction for ESI. Working to expand the DCCO management plan in terms of cormorant distribution in the estuary. Aiming for a working document by July this year.

3.7. Fish Count Program (Peery, Wertheimer). BON video counting currently, ICH and TDA start March 1 video and will be counted by video during fall and winter 2025/26.

3.8. BPA Update. Hausmann asked what type of updates the group would want. Van Dyke would like to hear impactful operations or schedule variance reporting by BPA. Peery discussed outage of lines 3 and 4 in May (4 units OOS), could potentially affect spill. Conder added he thought operation should be done 30 April to reduce potential issues with lack of capacity in higher flows. **ACTION:** Peery will investigate the outage schedule. Morrill added operations that limit capacity during peak migration is a concern.

3.9. Pinniped update.

3.9.1.BON. Low number of pinnipeds right now. Low numbers of fish passing, daily point counts ongoing. Morrill asked about options for lethal removal. Wertheimer responded that FFU would provide any information they can to managers needed for management actions. Morrill will touch base with the WDFW pinniped crew. Van Dyke added that

actions were happening, crews were out attempting to capture this week but no lethal removal resulted.

3.9.2. Willamette Falls. Observed a Stellar at the falls and within the Columbia surveys. Total lethal at Willamette was 2 Stellar sea lions. Total count for BON was four.

3.10. Lamprey update

3.10.1. BON – PNNL mobilizing within the next month to deploy hydrophones for upcoming studies. No specific dates yet

3.10.2. TDA – PNNL next week mobilizing at The Dalles to start their deployment of hydrophones on the spillway. They will be moving to the powerhouse around the first week of February. TDA will be picking up a tank from JDA to start fabrication for the east fish ladder LPS this season.

3.10.3. JDA-Working on north LPS water supply. Elevator #4 potential upgrade for reliability.

3.10.4. NWW –Working on telemetry evaluation budgets.

3.10.5. LAWG-Planning a site visit for 30 January at BON Wash shore ladder control section.

4. The Dalles Dam Spill Pattern (Portland District Hydraulic Design) The hydro survey findings show undercutting from high energy from bay 12. An FPP change form will be coming out for 6 February FPP meeting. Also, a temp spill pattern for the BON Cascades Island exit opening will be discussed.

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

5.1. NWW

5.1.1.

5.2. NWP

5.2.1.24 BON067 MFR Cascades Island Fishway Coho Salmon Mortality -Found during fish salvage operations.

5.2.2.24 TDA10 MFR TDA-E dewater lamprey mort – no comments

6. Fish Passage Plan

6.1. Final 2024 FPP in effect through the end of February 2025 and is available online at:

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

6.2. Change Forms – None.

6.3. Draft 2025 FPP:

6.3.1. Draft 2025 FPP chapters, appendices, and change forms are posted online at:

<https://pweb.crohms.org/tmt/documents/fpp/Annual FPP Meeting to finalize change forms will be Thursday, February 6.>

7. FPOM Task Group Updates.

7.1. Adult Fish Passage Delay Criteria (TBD). Met on Tuesday. Draft of FOP language soon.

7.2. MCN spillway (Peery). Next Thursday update. ERDC modeling will also be discussed at the meeting.

7.3. 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. Send ranking to Peery.

8. 24BON063 Updated MOC WA Shore Control Section Redesign-Extension Request (Project Operations 1-15 March)

- Bertrand – This is an overview of alternatives in the MOC, these are draft alternatives and by no means final. The need is to identify break points and add any new information about timelines.
- Flemmer – Due to workloads, Bonneville Project is on a time constraint and needs a determination concerning the AFF operation by Friday if possible.
- Lorz – Operating the AFF as a trap and haul, CRITFC needs to know if this is the preferred alternative. Manpower, permits, and other actions would need to be addressed quickly.
- Bertrand – Actively talking about intricate details of the spill alternative with BPA. One of two scenarios in the MOC that uses the two triggers, high rates of migration and predation events. What is considered a high enough rate of migration to take an action? If we can be more specific about what acceptable parameters are for the triggers would be helpful.
- Hausmann – Agree, As the Corps looks at AFF and BPA looks at PH2 limiting generation, feedback on trigger parameters would be helpful.
- Conder – Suggested a 5 pinniped trigger.
- Lorz – at the special meeting the thought was to leave it to the FFU to make that call.
- Conder – An increase in the number of pinnipeds normally observed taking advantage that is what we are trying to avoid. The FFU could come up with a reasonable level.
- Wertheimer – The focus should be on management actions to reduce the number of pinnipeds.
- Conder – Based on past hazing it's only moderately effective and lethal is not queued up. We need an additional measure here.
- Bertrand – would like clarification from Conder.
- Conder - Pinniped management and monitoring is not sufficient. We will need another alternative such as the AFF, UMT, PH2 flow for fish passage. If the FFU is reluctant to make a call to initiate an action, then five is a good number.
- Wertheimer – We need to understand what the trigger is to develop an effective plan.
- Conder – The trigger indicates we are having an increase in predation at the PH2 tailrace that's a result of attraction flow at PH2, but no ladder.
- Van Dyke – This is early planning for triage in the event the construction schedule does come about.
- Conder – The AFF plan is still possible, the anesthetic tank could be used, and fish collected. Another point is understanding the UMT option better. Is running 2 ft of head at CI at the UMT exit in order to obtain a foot of head at the downstream weir at Wash shore bad. The most important thing is providing passage to Washington shore. NOAA would be willing to do this to institute volitional passage. Even if we went just below a foot of head in Washington shore and were not in NMFS criteria. It could still be effective to pass fish. The AFF operation has a lot of complications. If the UMT was doable it would be preferred.
- Lorz – Too much flow is better than not enough, where the AFF seems potentially water deprived. More nervous about the hydraulics at the AFF than at the UMT. CRITFC would need to hire on staff prior to 1 March. How many days a week may determine if two crews are needed. A lot of logistics going into the AFF operation whereas a volitional one takes less people. Is there a transmission issue or what is the reason that spilling is out? Is this a physical constraint?
- Morrill – Or is this a policy constraint?
- Hausmann – Being limited to PH1 with the issues there creates issues with the 115 KV line that goes to Hood River vs the 230. Units 1,2,9, and 10 are on 115 and the rest on 230. It matters which units are available. Another thing is the volatility in March, usually have to go seek power. Hard to guess, 10-year averages could be used to predict but it is an uncertainty at that time. The UMT concept sound good but could the project speak to the availability of that bulkhead that would be required above the UMT.

- Flemmer – the bulkhead was looked at this week and has been HSS inspected and available for use anytime.
- Hausmann – If the UMT operation was feasible it would trump the AFF operation.
- Morrill – Is on board with the UMT operation if that can be accomplished.
- Van Dyke - volitional passage is better than added handling of fish.
- Flemmer – If you're not concerned about the Washington shore fishway being in compliance than we could try it. If they open the fishway they will need to dewater if these options do not work.
- Conder -How about inserting a weir board to help with the 2 foot of head.
- Bertrand A decision is needed by end of week if AFF operations a go, does that deadline would apply to the UMT.
- Flemmer is working toward testing alternative operations the week of February 24th .
- Van Dyke - Will work on the AFF operation take away from staffing other activities.
- Flemmer – Yes staff would be pulled away from other duties.
- Morrill – The AFF has two hurdles, one can it work, and two can CRITFC or another party step up to staff it. Is not comfortable with the AFF option. Is the contractor working the extended hours?
- Flemmer - The contractor is working the extended hours. They will start the 24 hours shifts shortly
- Lorz - Sea Lion trigger – Monitoring pinnipeds, 5 Pinniped trigger.
- Conder - 15-year daily average for three consecutive days after march 1. Provide passage or AFF, UMT, Daytime flow PH2.
- Wertheimer -Focus should be a pinniped free environment.
- Ebner – Suggest a meeting with fish folks and Steve Schlenker (Senior hydraulic engineer) to discuss and answer questions concerning the proposed UMT operation. Schlenker should be available tomorrow. **ACTION:** Madson will schedule a special FPOM with Steve Schlenker on 17 January to discuss feasibility of alternative operations.
- Conder - In a bind here. Violating criteria but how do you modify to an acceptable level.
- Morrill will support NOAA recommendation on the ladder criteria.
- Updated MOC will come out after tomorrow's meeting with Schlenker.