

Subject: Final minutes for the 11 April 2024 FPOM meeting. The meeting was held at CRITFC and via WebEx, from 0900 until 1200.

In Attendance:

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1. Final decisions or recommendations made at this meeting.

- 1.1. February and March minutes approved.
- 1.2. 24TDA01 will not be revised this year. BPA will review gate movements this season and revisit next year.
- 1.3. 24LGS03 MOC Unit 5 Commissioning – FPOM is in agreement that May is not a good time for commissioning and recommends moving it to June 21. Peery will discuss with the project moving the date to June 21.
- 1.4. 24BON010 MOC B2FGE Post Construction Evaluation 2024 – Concurrence. Both CRITFC and NOAA are supportive of this test going forward.
- 1.5. 24TDA03 MOC TDA MU22 Priority – Concurrence.

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.

2.2. NWW

- 2.2.1.[Jan 24] Falconry at MCN. **ACTION:** There will be a trial with falconry at McNary prior to the start of hazing. **STATUS:** *Time frame is up in the air depending on other CRITFC work for the falconer. The desire is to get Elena out before hazing begins to exercise her falcons in the space and see what is doable. It will be a trial run for this location. Morrill asked about video. ACTION:* Peery will ask the project about doing video during falconry. Magel wants to know how they are evaluating success. Peery said that will be determined.
- 2.2.2.[Feb 24] LGS Fishway Cooling Pump Repair/Replace. Lorz asked for an After Action for future cooling structures design considerations. **ACTION:** Peery has requested an After Action and will provide it to FPOM. **STATUS:** *Still Pending. Third pump is supposed to ship in April be on site in May and installed prior to 2 June. Other two pumps- one is still in Florida pending legal/contracting action issues to get it returned and second is on hand and will require a motor rewind pending contractor solicitation. Morrill asked why there is contract issues impeding the pump return. Peery cannot comment on the legal issues.*

2.3. NWP

- 2.3.1.[Apr 24] BON PH1 Unit outages. EPA is standing their ground on not rolling the units, however there is a lot of regional backing to support spinning the units prior to dewatering.

ACTION: Conder said that he would speak to his policy folks and others should speak to theirs concerning dewatering of the units.

2.3.2.[Apr 24] B2CC on/off indicator **ACTION:** Wertheimer will discuss with BON project and determine path forward.

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

2.4.1.[Jan 24] NWS updates. Ebel asked where the Albeni Falls updates will be shared. Lorz asked about Chief Joseph fish passage. **ACTION:** Peery will work with NWS to make sure they provide updates on pertinent topics. **STATUS: Completed.** *Madson forwarded the new Webex information to NWS as requested.*

2.4.2.[Jan 24] 19TDA04 MOC – East side powerhouse crane rails. Looking at resuming work this winter. May be pushed to spring but no specific update. Lorz asked for the estimated completion date. **ACTION:** Cordie will look into the completion date. **STATUS: Completed.** *The completion date will not be determined until the work resumes. At this point a restart date is unknown. However, the Project Bio will be sure when they get to the east exit the date requirements from the MOC will be met.*

2.4.3.[Jan 24] 24TDA01 MOC TDA spill gate movements. **ACTION:** FPOM has significant concerns and would like more discussion and information before agreeing to the MOC. Lorz would like to see more than one year in the analysis. Van Dyke would like to see the metrics that led to this MOC and a connection to the MCN plan. Hesse would like to see suggestions that balance all interests, not just Action Agency interests. **This will continue to be on the agenda until resolved or sent to RIOG.** **STATUS:** *This request will be pushed into the future. This season's plan is to operate within current BOP. Cordie added there will be a teletype with direction to minimize gate movements. We will monitor gate movements this year, track it and compare to what it was previously. Magel would like to see an end of season summary of gate movements for this year.*

2.4.4.[Mar 24] 19TDA04 MOC – East side powerhouse crane rails. Van Dyke asked if this is why the spillway work is delayed. Cordie said no that is not related. But the spillway crane for the spillway work is the priority. **ACTION:** Cordie will get the priority list for spillway repairs out to FPOM. **STATUS: Completed.** *Spillway plan list sent out with April FPOM documents and posted to the webpage.*

2.4.5.[Mar 24] Estuary - McDowell asked if there were plans to put CATE decoys out on ESI this year. **ACTION:** Wertheimer will follow up with an update. **STATUS: Completed.** *Wertheimer said No, that is not the current plan. Focus is on RMP to ensure no colonies form on those islands. ESI one-acre has been set up. Estuary updates will be at 10:30.*

3. FPOM Updates

3.1. NWS updates. Albeni Falls - Huddleston can't share much detail until the RFP goes out.

Current schedule RFP for late spring early summer this year, it will be a 2-phase design build, anticipating award in FY25. Morrill asked for a link once the documents are posted. **ACTION:** Huddleston will provide the link once RFP is out.

3.2. NWW Updates

3.2.1. Upcoming coordinated maintenance/construction/research activities.

3.2.1.1.23 LGS Unit 5 Commissioning. Postponed to Fall/Winter 2023. New MOC out for commissioning this latter half of May depending on flows. For this operation Unit 5 would need a 72-hour run. Morrill inquired about the flows needed for commissioning. Mills will post them in the chat. Conder said they would need to divert 12k to the PH from spill so why do it in the middle of fish passage season, he thought that June 21st would be best. Lorz agreed June 21st would be best. Bettin asked how many units available. Peery said unit 5 is the only one offline. Conder

noted they don't have an issue with changing unit priorities but thinks there is a better time for this. Peery said he will talk to operations to shift it down the road.

CHAT -from Alexis Mills to everyone: 9:31 AM

The daily average flow required for the 72 hr run at LGS is 95 kcfs (assuming 8 hrs PS).

- 3.2.1.2.**LGS Fishway Cooling Pump Repair/Replace. Discussed during Action Items.
- 3.2.1.3.**23LMN12 MFR spillgate 5 and 7 repair. The spillgate is repaired and in operation.
- 3.2.1.4.**23IHR11 MOC Navlock Tainter Gate Replacement February 2025
- 3.2.2.**MCN crane status. First hoist proposal is in and announcement soon for contractor. Safety handrail contract has been awarded and construction will take 4-5 months. Handrails will be put in place as parts are available and they are assembled. The SLABs are in design phase and still looking at an award for late this year construction and placement by early next year. Morrill asked about schematics of SLABs and wondered why it takes 4 months to design. Peery said that there are many steps-engineering design phase approval, structural, and it needs to work with existing gates. Conder added it was a structural member that has to hold a lot of weight. Peery reiterated 300 tons. RCC said that with the low flow projections, the project will be allowed to use gates 1&2. Peery shared spillway operations. Peery noted GDAC settings were off in the table, and they will be updated by end of April. Peery reiterated that barge folks were told gates 1&2 will be open for the season. Updated tables are in the FPP change form. Barnes said that balloon tag study completed last weekend. Release pipes were removed and stored. Preliminary write up by 30 April. PNNL hopes to have all permits by end of the week to start tagging for the acoustic telemetry evaluation. Conder asked about fish condition in the balloon tag study. Barnes said he observed no red flags.
- 3.2.3.**MCN ERDC Model. ERDC personnel were on site for ground proofing. Construction is ahead of schedule could be early this summer.

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. Work may not begin for many years.
 - 3.3.1.2.**BON PH2 Tailrace crane replacement. Work will occur during winter 25/26.
 - 3.3.1.3.**19TDA04 MOC East side powerhouse crane rails. No update. They are aware of the timeframes according to the MOC and will work within those confines.
 - 3.3.1.4.**18JDA02 MOC Trash rack replacement. Contract will be written for FY24. First one done. The remaining are estimated for FY26, trying to do four at a time. Lorz asked about design. Grosvenor said they will be replaced in kind.
 - 3.3.1.5.**20JDA04 MOC STS crane replacement. In the fabrication portion of the contract. Construction will start this June, commissioning to occur at the end of summer 2024. Still on track.
 - 3.3.1.6.**23JDA03-05 JDA -S fish turbine pumps 1 and 2 operating at reduced output 55 rpms, pump 3 OOS for gearbox repair. Lotspeich said pump 1 is currently operating at 55 and pump 2 is a backup with pump 3 in service at 60 rpms after gearbox repair. Magel asked what the overall effect is of running at 55 rpms instead of the full 68. Lotspeich said they have four FOGs pulled at the south end and two at the north to mitigate flows. Conder expressed concern about degraded fish pumps. He would like a summary update of pumps, funding, and issues. Lotspeich said unit 1&2 will be rehabbed. Grosvenor added that the interim fix would cost 7M. It is one of the highest ranked fisheries projects in NWP and NWD's MCIP list and has gotten a lot of attention. Lorz likes Conder's idea of a summary and suggested it be presented on the

side. Macdonald thought presenting on the CRFM side and see what projects shake out.

- 3.3.2. BON PH1 Unit outages – No return of units to PH1 at this time, units 4 and 10 are getting new blade seals, Unit 10 alignment measurement completed. The project has requested and been approved to work on three units at a time. The project is working to replace 3rd set of tail logs for PH1. Dewatering plans to deal with possible large numbers of sturgeon are being worked. Lorz asked about possible unit rolling. Flemmer said they are looking at the scenarios and an MOC will be out prior to next dewatering. EPA is standing their ground on not rolling the units, however there is a lot of regional backing to support spinning the unit prior to dewatering. Van Dyke asked if Flemmer was the POC for fish salvage questions from ODFW. She said yes. Folks could possibly help on the 90 deck. **ACTION:** Conder said that he would speak to his policy folks and others should speak to theirs concerning dewatering of the units.
- 3.3.3. JDA north pump #4. Budget request has been submitted. No funding received yet. Conder asked what kind of entrance is on the south. Grosvenor replied it is a standard telescoping.

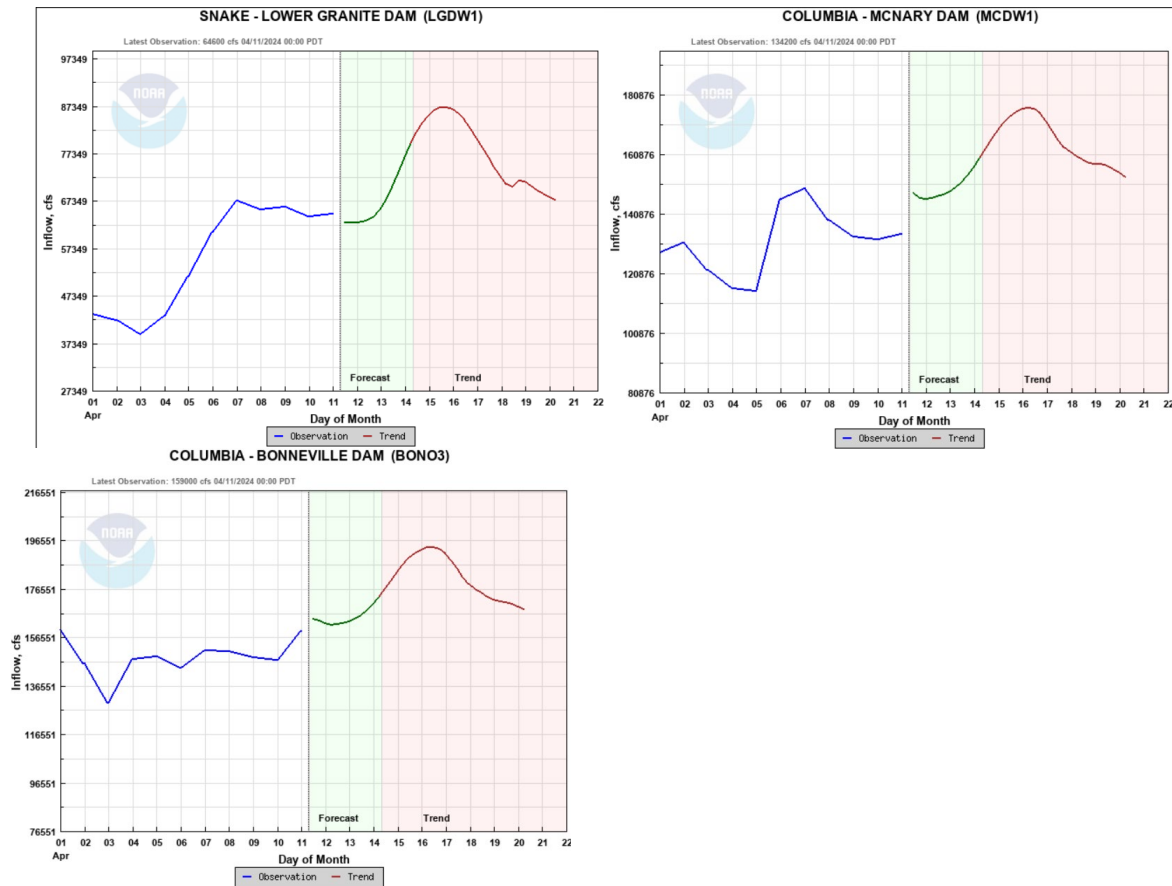
3.4. Research/FFDRWG

- 3.4.1. FFDRWG. – Cancelled last week meeting. NWP- No updates. BON B-branch and The Dalles East entrance LPSs are up and running awaiting the first fish. Installation of the first set of bulkhead slot covers occurred but they were not performing as intended. A lot of flapping in the flow so they are revisiting the design of the covers. Cordie said they are currently in at the East entrance. Conder asked, why leave them in if they are not serving the purpose they were attended and not flush. Macdonald said they are still serving the purpose for lampreys but concerned with salmon interaction with possible noise. Cordie said they were not making a noise. Conder preferred they were removed. Cordie said they are awaiting a path forward to see how this works out before installing any more. Van Dyke asked what the alternatives are and doesn't like the idea of putting things on that could cause vibration or other things like that and just leave them on. Cordie noted that it is one of the three weirs that is not required per FPP and can be pulled intermittently for inspection. NWW- Barnes said there are MCN turbine and draft tube slot filler updates for 2 May meeting and IDFG will provide some input on walleye behavior in the lower granite ladder and how that will affect operation of the turn pole gate.
- 3.4.2. SRWG. Revised draft research summaries for FY25 written comment due tomorrow.

3.5. RCC update.

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

11-APR-2024	Previous Day Avg Outflow (kcfs) April 10	5-Day Forecasted Inflow (kcfs) April 15	10-Day Forecasted Inflow (kcfs) April 20	Inflow Forecast High/Low (kcfs)
LWG	65	87	68	Low 63 on 4/11 High 87 on 4/15
MCN	139	174	153	Low 146 on 4/11 High 176 on 4/16
BON	159	190	168	Low 162 on 4/12 High 194 on 4/16



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 – hazing to start soon at MCN, last week at Snake River projects. Not seeing many birds yet.

3.6.2.NWP

3.6.2.1.JDA – Occasional gull, 11 grebes in forebay, 10 DCCO, 8 AWPE. Hazing starts next week with lethal take. Six stomach samples from Yakama nation’s Miller Rocks birds so far. Morrill asked what they are finding. Ricketts replied they are not examining gut contents just removal and freezing.

3.6.2.2.TDA – USDA onsite, few gulls, DCCO normal numbers still some trying to nest on the towers. Deterrents are being worked.

3.6.2.3.BON –low bird numbers, hazing underway.

3.6.2.4.Lethal Take Permit – permit has been issued.

3.6.2.5.Estuary -Tidwell reported ESI colony set up, 85 CATE on shore, 100 RBGU in old colony, and 24/7 hazing on Rice Island for the past two weeks. Successfully diverting up to 700 RBGU, on colony 18-45 CATE at Rice. Newly implemented hazing tactics are working well.

3.6.2.5.1.Astoria Megler Bridge. No update.

3.7. Fish Count Program (Peery, Wertheimer). Counting has started at all locations. Counts are low, some technical issues with new procedures/equipment are being worked out.

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

3.9. Pinniped update.

3.9.1. BON. Monitoring and hazing of pinnipeds is ongoing, over 20 animals in the tailraces. State trapping has started. No update yet from the State. Conder said 20 animal trigger is not always working. Such as last year when low numbers of sea lions for most of the fall season resulted in little observation time and estimates that were low for CH and high for STH. Conder added the trigger works good for the Spring but there is uncertainty around the Fall data. Van Dyke added an update for trapping, 2 ZCA and 2 EJU were removed April 1st. Morrill said they have not looked at the efficacy of the trapping.

3.9.2. Willamette Falls. Van Dyke updated they haven't seen much.

3.10. Lamprey update

3.10.1. BON – LPSs at Wash and CI are up and running, BI is down due to pump replacement work. B-branch trap being modified, it should complete this week and be restarted shortly. Swank asked about B-branch work. Flemmer said hoist and cranes are being worked on for collection from the trap and safety for trapping crews.

3.10.2. TDA -LPS will be monitored for early arrivals prior to collection they will be bagged and released. Tribes will be trapping at the East count station pickets and collecting at the LPS.

3.10.3. JDA- MOC is out for installation of SG1 weir on the 25th. Will be doing more painting and will need three days to dry. Elevator repair at the north will occur within 6 weeks. Still hope to be done by June 1. Lotspeich said they will have some as-builts coming for the new North fish ladder LPSs.

3.10.4. NWW -Juvenile acoustics telemetry study-first fish released by end of March, waiting for enough fish to release the next group. Four releases planned for April.

3.10.5. LAWG- looking at funding sources for list of lamprey projects from the LAW.

3.11. B2CC on/off indicator -Conder wants to know if there is a way to determine if the CC is on or off. Bettin suggested FPC could monitor and report. Cooper said they would need more guidance on it to monitor. **ACTION:** Wertheimer will discuss with the project and determine path forward.

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

4.1. NWW

4.1.1.24 MCN 02 MFR Modified Spill Operations – Being implemented.

4.1.2.24MCN03 MOC Release Pipe Install – Completed with no issue.

4.1.3.24IHR02 Picketed leads in lowered position – picketed leads were inadvertently down in early part of season. Maintenance was occurring during ladder dewatering the leads were left down after water up. Lorz suggested a tech go out and check the leads. It was noted that this would be added during inspections.

4.1.4.24LGS02 MOC Potential Noise - Juvenile Collection Channel – Project will be doing some drilling for trash rake crane replacement. Work is in vicinity to juvenile collection channel. Noise should be limited according to time. Lorz asked for noise related work to occur later in the day and what is the length of time for the work. Peery said they didn't have those details. Conder asked why this is happening during the middle of juvenile passage season. Peery said it was identified late in the contracting that this level of work would need to be done. Conder said focus on the afternoon and reduce the amount of time.

Morrill asked about a better time of day to do this. Peery said the solution is to reduce amount of time there is an impact.

- 4.1.5.24LGS03 MOC Unit 5 Commissioning – discussed earlier.
- 4.2. NWP
 - 4.2.1.24BON010 MOC B2FGE Post Construction Evaluation 2024 – Lorz said it's fine but thinks there is still problems with this test, no Spring Creek evaluation this year, and he believes the test will not answer all needed questions. Wertheimer said let's see what the results say and assess data gaps at that time. Conder is 100% supportive of the test going forward but is concerned as the study was set up to coincide with the Spring Creek releases and anticipates further discussions as testing will not be going above the upper 1%.
 - 4.2.2.24BON011 MFR BON FG 3-31 Hatch Failure – no questions
 - 4.2.3.24TDA02 MFR North Fishladder Rockfall – half of the ladder is cut into the bed rock, during the last dewatering it was discovered that a large slide covered up one of the northern orifices halfway down the ladder. Geotech said it was a major safety concern and personnel should not be down there at all. This has been a concern for about a decade. Previous study showed soft spots, funding wise it did not make it above the cut line for repair of those soft spots. Lorz asked about schedule to repair. Cordie said he is unaware of any schedule and Grosvenor will have his hands full. Cordie said there are options for fish to pass that weir. Conder said they were concerned about more sliding that could block other orifice and possible blockage of passage. He said they would like to see it cleaned up.
 - 4.2.4.24TDA03 MOC TDA MU22 Priority – Unit 18 is a priority unit with a sluice gate over it if 18 is replaced by unit 22 it will maintain the East West loading of powerhouse per FPP. This configuration will be needed through August. It was asked if the unit was on. Cordie said that Unit 22 is running, and we don't want to turn it off. No other comments.
 - 4.2.5.24JDA03 MFR SFL AWS Pump 3 OOS – oil pressure switch was wired incorrectly, now it is up and running. Pump 1 is running at 55rpm and pump 3 at 60rpm.
 - 4.2.6.24JDA04 MFR Oil Sheen and Chinook Mort in Gatewell 1A – Lubrication used during work was identified as the cause and discontinued. A flat boom for oil absorbent was deployed in gatewell and left in there, a CH mort resulted from stranding on the boom. Project recommended the removal of booms after 24-48 hours for future deployments.
 - 4.2.7.24JDA05 MOC Installing the Lamprey Modified SE-1 Weir in John Day SFL- We are on pace to get installed by the 25th. There is painting to be completed, measurement for as-builts, and then it will be ready to deploy. 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. 24MCN003 – New Spill Patterns. Coordinated at the McNary Spillway task group meeting on 28-March and added to the FPP 29-March. Peery shared spillway table. Using McNary table 8. Peery asked for suggestions on modifications. Determinations on the adjustments needs to be made, split gates can change hourly but crane gates 6 and 9 require a crew. Project estimated weekly adjustment for crane gates. The operation of crane gates with an acceptable rate that changes can be made needs to be included in the FPP change form. Bettin asked what days changes can be made. Changes can only be done in the daylight hours, no crews at night. Van Dyke asked if it was just 6 and 9 affected, Peery said yes just those two.
 - 5.2.2. 24MCN004 – Updated Operating Range for Units with Screens. Updating range curves for MCN turbines. In GDACs now. Still minimum generation of 5 units.

6. FPOM Task Group Updates.

- 6.1. MCN spillway (Peery). Next update Thursday two weeks from now. Share balloon tag and TDG. Van Dyke asked about rescheduling due to overlapping meetings.
 - 6.2. Budget and Infrastructure Updates. Updated spreadsheet posted to the January FPOM website folder. No updates.
 - 6.3. The Dalles Dam Ice and Trash early opening- Wertheimer said there was a task group on this and Bellerud was the chair. He recommended work on this issue under the existing task group.
7. **Roles and Responsibilities** – New Co Chair in the detail will be Chris Walker followed by Scott Fielding. For future FPOM coordination's please also Cc. Wertheimer, Madson, and Sachs.

Recognitions for retiring members, Bob Cordie-USACE TDA Chief of Fish, Scott Bettin-BPA, and Blane Bellerud-NOAA. Congratulations to all and thank you for your service and contributions throughout the years.