

Subject: Draft minutes for the 11 July 2024 FPOM meeting. The meeting was held via Webex, from 0900 until 1238.

**In Attendance:**

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## 1. Final decisions or recommendations made at this meeting.

- 1.1. June meeting minutes – approved.
- 1.2. SRWG – For B2 FGE testing through 20 July, the request is to continue sampling fish daily up to 71°. If temps rise above 71° they will go to every other day sampling on odd days. This was supported by NOAA, CRITFC, BPA, and WDFW.
- 1.3. 24JDA08 MOC Backflushing SFP Intake with Compressed Air – recommendation is to do the operation after 2pm. Comments close on 14 July.

## 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. The advertisement date has been pushed back until later this month. This does not impact award date.*

### 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. Propose Using upcoming McNary timeslot on 25 July. Conder will assist with chairing.*
- 2.2.2. [July 24] LGS Fishway Cooling Pump Repair/Replace. Discussion concerning thermal blockage of sockeye passage at IHR and possible operational changes. **ACTION:** Peery will bring this up with leadership and get a reply out later today.

### 2.3. NWP

- 2.3.1. [June 24] FFDRWG - **ACTION:** Jake and Chuck will work with Ryan to communicate with Andrew about using FFDRWG as a coordination forum. **STATUS:** *Pending.*
- 2.3.2. [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:** *Budget impacts do not delay any fish passage activities.*
- 2.3.3. [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.
- 2.3.4. [July 24] Avian updates NWP JDA - **ACTION:** Miller will send the AWPE predation photos to the group.

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

**2.4.1.**[May 24] Budget and Infrastructure Updates. **ACTION:** Peery will find a location on the FPOM site to post the non-routine items spreadsheet. **STATUS: Completed.** *The spreadsheet will be located at <https://pweb.crohms.org/tmt/documents/FPOM/2010/> under the Plans, Lists and Charts section.*

**2.4.2.**[June 24] 24BON012 MOC B1 Fish Salvage Operations on Oil Leak Investigation Units - **ACTION:** Flemmer will address comments received in an updated MOC. **STATUS: Completed.** *Sent to FPOM this week.*

**3. FPOM Updates****3.1. NWS updates.**

**3.1.1.**Albeni Falls. Spillway gates update They have dropped the one gate, currently at summer pool. Ebel asked about spillway maintenance interaction with the progress toward fish passage. Huddleston said the spillway rehab was moved up in priority but will not pull resources away from fish passage.

**3.2. NWW Updates**

**3.2.1.**Upcoming coordinated maintenance/construction/research activities.

**3.2.1.1. LGS Fishway Cooling Pump Repair/Replace - New pump in place and working.**

MOC coming for two-hour outage to assess the new pump functionality. The second pump motor has been repaired and returned. The project is in the process of reassembling and getting the pump back together for a spare. Ebel asked about the timeframe for pump outage. Peery thought sometime in August when less fish are in the system. Ebel is concerned about possible thermal blockage of sockeye passage in the IHR ladders. Peery would need to refer to HDC (Laughery) for options to solve this issue. Options may be limited to change in spill versus turbine flow as there is no pump there. Conder said there is some modeling work information out and he will present the info at the next TMT process meeting. Ebel suggested more Nav lock openings per day as an alternative route. Conder said a temporary release of deeper water could have more of an effect and feels this has more potential than Nav lock openings. It is not going to fix the problem, but you can reduce temperatures temporarily. Ebel said the cooling of the tailwater is not the issue it's the temperature differential in the ladder. If conversion continues to drop from McN to IHR then, look at opening the locks. Bellerud said the lack of attraction flow affects passage through the locks. Morrill asked about repetitive openings of the Nav lock to increase attraction. Peery said this is a topic for the TMT process meeting. Ebel would like a commitment to action as water temps could climb this weekend. Peery will discuss Nav lock openings for temperature block mitigation back to the project for discussion. Ebel is concerned this may kill fish. Morrill encourages the Corps to consider nav lock openings for a couple hours a day if we get this blockage. Lorz said he would pursue both flushing and lockages. Blane said they could be rejecting the Snake at the mouth or dying in the pool. Ebel said that there needs to be an action to help sockeye pass when they get close to the dam. **ACTION:** Peery will bring this up with leadership and get a reply out later today. Conder said, to be clear, they are not proposing any additional water releases from Dworshak Dam. They are simply looking at modeled solutions to reducing the temperatures in the Lower Snake River down to the IHR tailrace.

CHAT from tom lorz to everyone: 9:31 AM Why would we not do both.....

CHAT from Ben Hausmann to everyone: 9:34 AM

The additional lockages do have impact. It makes it unavailable when vessels do arrive as the lockage cycle is NOT quick. A transportation delay reverberates throughout the system. Not that it couldn't be done but it would require discussion and coordination to determine feasibility. and coordination to determine feasibility.  
 CHAT from Ben Hausmann to everyone: 9:50 AM Yesterday, I looked at the May 2023 TMT presentation on Snake MOP issues. Pretty informative if you haven't seen it.  
 CHAT from Ben Hausmann to everyone: 9:52 AM

[https://pweb.crohms.org/tmt/agendas/2023/0510\\_Agenda.html](https://pweb.crohms.org/tmt/agendas/2023/0510_Agenda.html)

CHAT from tom lorz to everyone: 9:59 AM

Yes the presentation talks about several issues,, the main one is the Fish Pumps.....the .5 ft reduction on deflector elevation is questionable some since the ranges where deflectors flip from skimming to undular/skimming. While undar skimming is less ideal than per skimming it is not a big deal espically with the low volumes of spill. I wont even touch the debris issue at these flows.....So for me it is the fish pumps solve this and we are good.

- 3.2.1.2.**24LGS02 MOC Potential Noise - Juvenile Collection Channel – still ongoing. The drilling is not expected to start until after August.
- 3.2.1.3.**24LGS03 MOC Unit 5 Commissioning Fall 2024, around November.
- 3.2.1.4.**23IHR11 MOC Navlock Tainter Gate Replacement February 2025
- 3.2.1.5.**LWG tailwater elevation – Questions have arisen about condition of fishway pumps at LWG and how that relates to tailwater elevations there. Peery explained that low TW is more difficult to maintain criteria in the fishways. Pump 1 is on slow mode. Pump 2 is OOS. Limited to pumps 1 on lower setting and pump 3. Not a lot of flexibility there is a high and low setting on pumps. At the 633 level the pump trips off. Conder recalled that any elevation under 635 requires low mode or it trips off. Holdren said the issue is that pump 1, when operating at lower TW elevation, cannot keep up, so it is operated in slow. The pump has been inspected by the crew and no solution has been found for this. Holdren said, when possible, they plan is to operate pumps 2 and 3 and use pump 1 as a standby. Conder said that raising the pool a half a foot has a biological impact and asked if going from 633 to 632.9 has an impact that justifies raising the pool half a foot. He also mentioned that the Goose forebay always reads half a foot higher than Granite tailwater. Van Dyke asked if the fish pumps are on routine or non-routine maintenance. Peery said both. Morrill asked about funding. Peery said discussion are ongoing concerning the list of Critical Fish Infrastructure, Fish Asset Plan, and request to increase CRFM spending limit. McNary and LWG fish pumps are high on the list. CHAT from tom lorz to everyone: 10:08 AM John Day. And LGR could be a redesign so that would definitely fit under CRFM.
- 3.2.1.6.**McNary JFF – This item is to discuss the early installation of fish screens for juvenile fish evaluation. For Juvenile evaluation studies next year fish for tagging will be collected at LWG and MCN. Tentative schedule for tagging fish at McNary starts in March. The fish screens will need to be installed early to accommodate this schedule. Guessing around 3 or 4 sets of screens will need to be installed mid-March. Early installation impacts on juvenile lamprey and other juvenile fish will need discussion. Barnes said first tagging group around March 25. An MOC or FPP change form will be coming once numbers and date are firmed up. Van Dyke said he would like the written info that's presented at tomorrows SRWG. Barnes said the presentation would be pdf'd and sent out to the group.
- 3.2.2.**MCN crane status. No new update.
- 3.2.3.**MCN ERDC Model. No new update. Model runs and trips for early next year.

### 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. No update. Lorz asked about the possible need to move the sealine traps. Flemmer mentioned a plan to have the barge moved in and put the traps behind it. No dates or times for this work. This work is a year or two out.
- 3.3.1.2.** BON PH2 Tailrace crane replacement. Work will occur during winter 25/26. No update.
- 3.3.1.3.** 24BON010 MOC B2FGE Post Construction Evaluation 2024 – Update will be provided under 3.4.2 SRWG. Currently still under testing about 9 days remaining.
- 3.3.1.4.** 19TDA04 MOC East side powerhouse crane rails. No update FY25.
- 3.3.1.5.** 24TDA03 MOC TDA MU22 Priority still operating per MOC until August and reverting back to MU18 as a priority.
- 3.3.1.6.** 18JDA02 MOC Trash rack replacement. No update.
- 3.3.1.7.** 20JDA04 MOC STS crane replacement. Continuing to wire it and contractor is on track to turn it over to the corps by 31 July.
- 3.3.2.** JDA north pump #4. Budget request has been submitted. No update. Morrell asked about fish pumps USG list. Miller said all pumps are on the list to push forward. Miller said pumps are high priority and north side pumps are part of the TRGR.

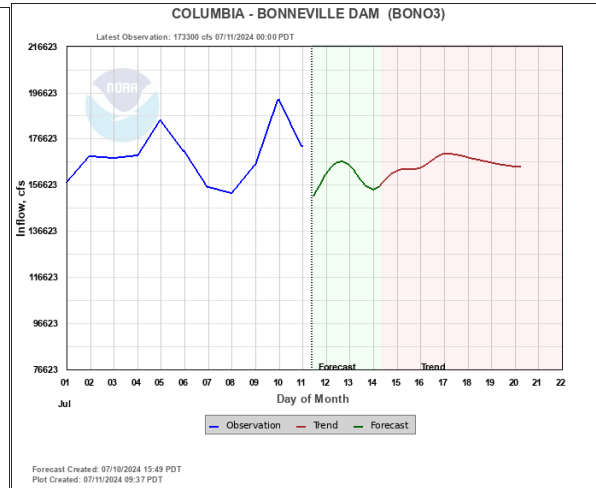
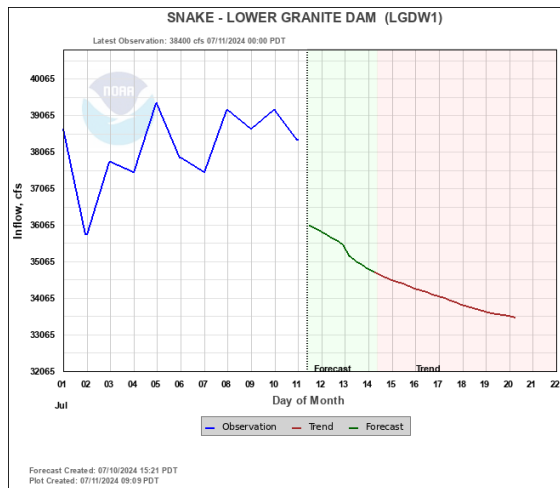
#### **3.4. Research/FFDRWG**

- 3.4.1.** FFDRWG. – Next meeting is 1 August.
- 3.4.2.** SRWG -Preliminary proposal meeting tomorrow on Webex. Researcher presentations on implementation plan for FY25 in the afternoon. Update for FGE - Rerecich said they need as much sampling as possible for FGE testing at BON PH2. Testing will continue until 0700 on 20 July. Temps are 69° currently but once we get to the 70° trigger the ask is to continue to sample as normal until test completes on 20 July. Or second best is every other day at a normal sample rate. Switch to bypass on the odd day. Van Dyke asked how they would account for temp impacts. Rerecich indicated PNNL would need to look at the data and address temp increase impacts. Rerecich added that SMF Bio Dean Ballinger stated at 73° there could be changes in fish behavior in the sample tanks. He does not object to normal sampling if temps remain close to trigger and if this does not continue for long term. Van Dyke asked if there were changes in operations when temperatures increase. Rerecich replied that operations would remain the same and offered that protocols can be found in appendix J section 1.4 of the FPP. Ebel said the SMP has a permit, and this might be broader than asking FPOM for a change to the FPP. Ebel said that SMP permit needs to be addressed and asked if it was discussed with the SMP and the FPC. He also asked if there was enough fish for statistical power for their test. Rerecich said the summer period will be short on fish, due to low flows and few units operating. Conder said they would support continuing at 71° and if temps go over that switching to every other day sampling. Van Dyke is not sure there is enough information to support changing from the FPP criteria and recommends every other day sampling. Van Dyke said he wants to ensure this is documented in the report. Morrill and Van Dyke also encouraged investigating the permit with SMP and PNNL to ensure they are aligned. ACTION: Rerecich will check with Ballinger and PNNL concerning permitting prior to proceeding with normal sampling at a 71° threshold. Morrill sees no issues supporting continued sampling as needed for testing. Lorz will go with Conder's recommendation.
- CHAT from Ben Hausmann to everyone: 10:46 AM
- It sounds like we're only talking about the potential for 4 days of sampling at 70 degrees. I think the minimal risk makes sense for the integrity of the FGE study.

#### **3.5. RCC update.**

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

Project	Previous Day (07/10) Avg. Outflow (kcfs)	5 Day (07/15) Forecasted Inflow (kcfs)	10 Day (07/20) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	39	34	34	34 (07/20) / 36 (07/11)
MCN	158	160	161	150 (07/13) / 167 (07/17)
BON	169	163	165	152 (07/11) / 170 (07/17)



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

**3.6.1.NWW** –Average birds per day, at MCN 79 gulls, 3 DCCO max 12, 42 AWPE max 179, 29 Grebes max of 60, and 37 total CATE. At IHR 2 gull, 4 DCCO 14 max, 2 CATE max of 11, 8 AWPE 27 max. At LMN 16 gulls 56 max, 3 DCCO max of 10, 3 terns, 6 AWPE. At LGS 28 birds total 1 DCCO, 50 AWPE. At LWG 3 AWPE 31 max, 5 gull total, and 1 DCCO. Peery said MCN tory line at the Oregon shore install is working, no update on the McNary pool islands.

**3.6.2.NWP**

**3.6.2.1.JDA** – AWPE 50-150 in tailrace, 50-500 AWPE on preacher’s island, 0-10 gulls, 1-2 DCCO, handful of grebes 22 CAGU and 1 DCCO. Lethal take 462 CAGU and 15 DCCO between JDA and TDA. Processed 160 of those birds for the predation study. 80 were kept and the other 80 were not. Lorz asked what AWPE are feeding on. Miller said probably adult shad. Conder asked if they are feeding on live fish. Miller said they have photographed AWPE predating on live adult looking fish. Conder asked for the photos. **ACTION:** Miller will send the AWPE predation photos to the group. Magel asked if any stomach contents are possible. Miller said that is out of there scope at John Day. Grosvenor said they are going out with USDA next week to collect SCAT for DNA testing for Kramer. Lawonn asked how numbers compare to previous years. Richter said it is nothing over the past few years.

**3.6.2.2.TDA** – 3-400 AWPE in the TW, another 100 at the islands. 80 DCCO on the BPA towers, another 40 on tower islands, from 10-20 up to 100 gulls depending on weather and USDA boats. Stomachs removed for diet analysis with the goal is for 200 gut samples. No updates on the bridge lights. Lawonn asked if AWPE are leaving at night. Grosvenor said no they don’t leave the area. Grosvenor noted that it seemed that the

birds from John Day have moved out to The Dalles Dam. Lawonn asked where tower island was and if these towers could be the Murdoch towers that Real Time Research refers to. Grosvenor said it could be the fishing regulations refer to it as Tower Island.

**3.6.2.3.BON** –low bird numbers, 15-50 DCCO in daily spot checks.

**3.6.2.4.Estuary** -ESI 3,700 terns, 3,500 on colony, 40 gulls within the colony boundary, 3 DCCO on beach, At Rice 19 CATE on the island, several 1,000 RBGU on upstream side. 100-1000 adults and juvenile AWPE. AWPE on Miller Island no Cap flight recently and 90 terns, At Pillar 1 male and 1 female SHLA. Lawonn asked for the date on last ESI CATE count. Braun said June 27. Lawonn said an active AWPE colony in the estuary since 2005 and they move from Miller sands to Rice Island.

**3.6.2.4.1.Astoria Megler Bridge.** No update on the bridge. Since 2001 the population grew about 18%. In 2021 there were 5500 breeding pairs of DCCO and in 2023 it was 6500 a good portion of this increase is from the Astoria Megler Bridge. Also noted is a 100-200 breeding pairs increase in the freshwater zone.

**3.7. Fish Count Program** (Peery, Wertheimer). Ebel commented that sockeye numbers seem low.

Peery is not aware of any issues at the windows. Peery said the Sockeye are more advanced in maturation and that they were hefty this year. Which could affect identification. Supervisors are doing QC right now. Van Dyke brought up a -80 count for Sockeye. Peery said that is an error and will be corrected to 8.

**3.8. BPA Update.** Schedule available on the FPOM website. No updates. Hausman will get the update out when it comes in.

**3.9. Pinniped update.**

**3.9.1.BON.** Currently in the pinniped off-season for BON, we have not seen any sealions around, working on data from spring 2024, final report will be out to the region by end of Feb 2025.

**3.9.2. Willamette Falls.** No update, also in the off-season.

**3.10. Lamprey update**

**3.10.1.BON** – Number doing well BI-LPS trap doing exceptionally well with upwards of 300 plus a day. LPS counts are tracking closely between optics 1 and 2 at all locations. LPS passage up through 8 July is estimated at 23,624.

**3.10.2.TDA** -Concerns the trap was catching too much of the run forced the closure. The project is working with FFU and coordinating with CRITFC to get the trap back into operation for trap and haul efforts. Porter expressed that concern that it was collecting too many fish for the tank and over filling. CRITFC does not have enough staff to man the LPS 24/7. Schedules and staffing are being worked.

**3.10.3.JDA**- Working on repairs for water supply of north LPS.

**3.10.4.NWW** – No update numbers are low.

**3.10.5.LAWG**- Trap and haul at The Dalles, number of fish that traps are catching and concerns with holding capacity. Tank turns over every 2.5 minutes. Not seeing a drop in oxygen in ~300 fish.

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

**4.1.NWW**

**4.1.1.24LGS06 MFR T1-MOD4574 Failure** – T1 working, looking for replacement parts,

**4.1.2.24LGS07 MFR JBS Flume Adult Mortality** – no comments

4.1.3.24LWG01 MOC Trash Rake Crane -previous MOC was for work in 23 now it will be Sept of 24.

#### 4.2. NWP

4.2.1.24BON012 MOC B1 Fish Salvage Operations on Oil Leak Investigation Units\_REVISED – EPA onsite for tour, Federal on scene coordinator and emergency response and prevention unit, they are supportive of FPP dewatering directives. The project will flush as normal for 1-3 hours prior to lowering tail logs. During flushing spill response teams will be monitoring on the deck for oil release. Just for unit 2 the ITS will need to be shut down to observe for oil. Conder added that when unit 2 requires ITS shut down it should be done at a low fish passage time. Flemmer indicated that the work schedules fluctuate. Morrill asked opportunity to salvage sturgeon since the schedule is altering. Flemmer said with the flushing there may only be a few.

4.2.2.24BON014 MFR Cascades Island LPS Lamprey Mortalities – Porter inquired about this event and why alarms were ignored. Flemmer indicated that alarms alerted but no apparent issues were found so continued alarms were not acted upon. Failure points included fish biologists were not checking the alarm histories, electricians needed to calibrate the alarm better as the alarms were coming in consistently with every water fluctuation. Clogged screen in the LPS pond caused overflow. Screens will now be monitored and scrubbed regularly. Project is reviewing alarm history daily and alarm trigger has been changed to 30 seconds of low water.

4.2.3.24BON015 MFR PH2 Fish Unit 1 Outage – no comments

4.2.4.24BON016 MFR AFF Valve 15 Pacific Lamprey Mortality – no comments

4.2.5.24BON017 MFR WA Shore UMTJ RB2 Lamprey Mortality – no comments

4.2.6.24BON018 MFR WA Shore AWS RB1 and RB2 Lamprey Mortalities – no comments

4.2.7.24BON019 MFR WA Shore UMTJ RB1 Lamprey Mortality – no comments

4.2.8.24BON020 MFR WA Shore AWS RB2 Lamprey Mortality – no comments

4.2.9.24BON021 MFR PH2 Fish Unit 2 Outage – no comments

4.2.10.24BON022 MFR WA Shore UMTJ RB2 Pacific Lamprey Mortality – no comments

4.2.11.24BON023 MFR WA Shore AWS RB1 Pacific Lamprey Mortality – no comments

4.2.12.24JDA08 MOC Backflushing SFP Intake with Compressed Air – This is a temporary change until the trash rake is up and running. Backflush will occur after 2 pm. Lorz said later in the day is good. No other 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

5.2.1.24BON001 – B-Branch Diffuser Operating Ranges (Gossett) – Tucker explained that the new construction at B Branch, the new entrance keyhole structure, the diffuser operating ranges needed to be changed to match the Cascades Islands since they mirror each other now. Posted to the website please review and send comments to Wright and Gossett.

### 6. FPOM Task Group Updates.

6.1. Adult Fish Passage Delay Criteria (TBD)

6.2. MCN spillway (Peery). Next update 25 July

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.