

Subject: Final minutes for the 13 July 2023 FPOM meeting. The meeting was held via WebEx from 0900 until 1230.

**In Attendance:**

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## 1. Final actions or decisions.

1.1. June meeting minutes approved.

1.2. Agenda Item to add –

1.2.1. Conder wants to discuss FPP violations and how they get into a weekly report versus a memo. He would like to discuss standardizing weekly reports so finding violations is easier. Peery said we would discuss under updates.

1.2.2. Macdonald asked about the Ralph Lampman item. Peery said it is under lamprey.

## 2. Action Items

### 2.1. NWW

2.1.1. [July 23] FPP memo reporting. **ACTION:** Conder will talk with Peery and Mackey to discuss potential reorganization of the weekly reports.

2.1.2. [June 23] 23MCN06 MOC TSW removal delay. Van Dyke said the TSW removal interrupts operations at important points in the year. He asked if there was still discussion about diverting flow to other bays and leaving the TSWs in place. **ACTION:** Peery will talk with NWW engineers. There are concerns with creating back eddies when the TSWs are shutdown. *Status: We confirmed with engineers that closing TSW's would impact tailrace conditions for juvenile and adult fish passage. Van Dyke felt this was insufficient and more discussion needs to occur. Peery said it may be more efficient to have the discussion in a work group, once the modeling information is available. Conder said he agrees that there will be an undesirable back eddy by closing the TSWs. He wants to know what the benefits would be for the Project. He also said NOAA is interested in looking at leaving the TSWs in place during the summer. He would like survival data to help determine the removal dates. Van Dyke said opinions are not the point of discussion; we need to move forward with action. Morrill said he believes it is important to leave the TSWs in and prefers a longer operation as opposed to a hole in the spill pattern by closing them. Peery will chair a task group to look at the data and discuss any operational changes. Morrill asked what it would take to get the model operational. Peery said NWW has been discussing this with NWD, trying to figure out where funding might come from. Peery did say he is optimistic there will be a favorable outcome. Lorz noted the glacial pace this is moving. At least it is still moving forward.*

- 2.1.3.**[June 23] 23LWG04 MOC LWG LMN Stilling basin sediment removal. Van Dyke asked if any information on the amount of sediment has been shared. **ACTION:** Juhnke will share latest estimates. Van Dyke asked for historic amounts as well. *Status: Estimated amounts of sediments in stilling basin from recent surveys were shared. Information from older surveys is being looked for. This work will be delayed a year due to schedule conflicts with the transformer work, which requires an operational spillway. Current schedule is winter 24/25 for LWG and 25/26 for LGS. Sediment estimates have been provided. Van Dyke asked for the older sediment information as well.*
- 2.1.4.**[June 23] JFF early start. FPAC recommended 15 March for early start at LMN, LGS, and LWG. Peery hasn't had time to put the data together for a more thorough conversation, however, initial thoughts are that the date isn't conducive to maintenance schedules and the preliminary data doesn't indicate a need to start earlier than 24 March. **ACTION:** This will be discussed in more detail at a future FPOM. Van Dyke requested the 1990s bypass opening dates be included. *Status: Updated summary of information from JFF early starts was sent out and included start dates for JFF samples and primary bypass operation from previous years. Peery was able to find data back to 1985, though not for every location. Morrill still needs time to review the information. Van Dyke asked if it could be resent. NOAA supports the earlier operation of the JBSs.*
- 2.1.5.**[May 23] LWG tailwater. **ACTION:** Peery will set up a meeting in a week or two so the work group team can get into the details and work towards a reasonable solution. Interested parties should email Peery to be included in this work group. *STATUS: still pending*
- 2.1.6.**[May 23] LGS GBT. **ACTION:** Peery will work with SMP and Conder to develop the plan for spot checks. There are morts but the rate of mortality isn't alarmingly high since the collection is high. *STATUS: still pending. Peery does have some data downloaded from the sensor. Goal is to understand how tailrace and raceway TDG measurements are related and how you collect fish from the raceway. Conder said the evaluation is needed only if NWW is intending to hold fish in the raceway. Peery is still willing to work on this. Conder said if fish are being held for an extended period, he wants to see an evaluation showing this isn't a problem with GBT for the fish. If the fish are not going to be held, then an evaluation may not be needed. Peery needs to talk with the Project bios to understand how they might do the evaluation, if it is possible. If they can do it, NWW would like to see the data and address potential impacts. If an evaluation cannot be done, then the FPP may need to be changed to alter the transport program. This will remain an action item. Peery will meet with FPC and the project bios. He will include any other FPOM members who may be interested. Hesse would like be included and would like to look at degassing the water. Peery said this would require a significant rebuild of the JFF. Morrill would also like to be included.*
- 2.2. NWP**
- 2.2.1.**[June 23] Invasive species removal language. No change form yet, but includes the removal of invasive species during dewatering activities. TDA has not heard back from WDFW yet. **ACTION:** Morrill will follow up and report back. *STATUS: WDFW hasn't seen anything from the Corps yet. Cordie still working on this. Van Dyke said ODFW doesn't want northern pike to be returned to Oregon waters, but other species may be problematic. Cordie said it would include game fish. Van Dyke suggested not using the term "invasive". Ebel asked if the Corps understood the significance of the term "invasive". In Idaho, if a species is invasive, it is no longer under the jurisdiction of IDFG, it goes to the Dept. of Ag. Van Dyke suggests using more descriptive language to be clear which species would be targeted.*
- 2.2.2.**[June 23] TDA Fishing Boundary. The main concern is that the line is not entirely clear, and anglers are coming within 100' of the east fishway exit. **ACTION:** Morrill suggests a memo outlining the recommendation for a line straight across. Morrill and Cordie will work on this. *STATUS: Pending. Cordie and Morrill have been working on this. Morrill said from a fish management perspective, the existing boundary is fine. From an enforcement perspective, the*

*boundaries may be problematic. Van Dyke requested being included in discussions if WDFW is going to work with ODFW. Cordie said TDA would like a 200' boundary to be enforced. If anglers continue to violate that distance, they will call enforcement again. Morrill can ask if WDFW and ODFW enforcement would like an easier to enforce boundary, if FPOM would like him to pursue further. Lorz has not heard back from his TAC rep regarding the boundary yet.*

**2.2.3.**[June 23] TDA temperature collection. Cordie said the data is collected and reported in the status reports. Cooper said FPC isn't receiving the information for the east ladder south entrance and junction pool. FPC is getting some data but not from all locations. **ACTION:** Cordie will look into it and get back to Cooper. **STATUS:** Pending. *Cordie believes this has been resolved. Cooper said FPC is not receiving the information. The data is supposed to go to Gabe Scheer. Cooper said the data is not coming in weekly, which is the FPP requirement. The raw data files are what should be sent to FPC, not just the graphs in the weekly reports.*

**2.2.4.**[May 23] Pelican hazing in the estuary and at the dams. Morrill is still working on this. He did share that hazing should be permitted as it was last year. He also said WDFW requests the Corps send a letter to the Director (CC Morrill) to request approval for hazing as it was done last year. More to come. Mackey will work with the Projects and PME to craft a letter. Wertheimer said eggs have already been deposited. **ACTION:** Mackey will work with the Projects and PME to craft a letter. **STATUS:** pending. *Mackey hasn't worked on this yet. Morrill said he believes pelicans can be hazed at the Projects. Peery said the Corps understanding isn't the same as Morrill's. The Corps still has some confusion about the permissions, though pelicans are being hazed when they are in the fishways. Aside from the fishways, pelicans are not being specifically hazed. The WDFW Commission did delist the American White Pelicans and that is in the written record. What hasn't been seen is specific language allowing for hazing, however, since the birds are delisted, it should be fine. Borchert reached out to his chain of command for clarification. What USDA didn't see is the down listing in the Washington legislature. Morrill reiterated that the down listing has occurred. Magel will forward the original email pertaining to this issue. Magel also said he has been discussing with the NOAA avian team. Morrill said WDFW would prefer young birds not be directly hazed but he is still waiting to hear from the WDFW avian team about any concerns. Van Dyke said ODFW has no issue with pelican hazing, he also has asked to be included in the avian emails from Magel.*

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

**2.3.1.**[May 23] Pinnipeds. **ACTION:** Morrill will seek a written update from WDFW's marine mammal folks. **STATUS:** Morrill has a verbal update. *John Edwards said they didn't see a lot of recruitment. Trapping hampered by water elevations. Trapped 28 animals 22 CA and 6 Stellars. These were lethally removed. Will resume trapping starting in Sept through November.*

**2.3.2.**[JAN 23] Spillway condition report. **ACTION:** Mackey will talk with NWD about next steps. She will also try to track down a consolidated spillway report. **STATUS:** *A spillway presentation is tentatively planned for the September FPOM meeting. NWW will be included.*

## **3. 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. New dates Nov 28-Jan 31. Will work on T1C first and then T1B. No changes.

**3.1.1.2.**23 LGS Unit 5 Commissioning. On-going. Expected to take longer than originally planned. Having issues with the temperature sensor. No changes. May be postponed until after the spill season so they have enough flow for testing U5 within priority.

- 3.1.1.3.**23MCN02 MFR Spillbay 16 closure and 23MCN001 FPP Change; cranes, hoists, and spillgate repairs. Bay 16 is still closed. In process of repairing the hoist with RTS in mid-June. Work started on 10 July. Closed bays 15 and 17 to isolate bay 16. Work should be completed on 17 July.
- 3.1.1.4.**23IHR04 Unit 3 Commissioning. Delayed by about 2-3 weeks due to issues found. Completed. U3 biological testing will be in the fall. U1 is currently OOS for the overhaul. Expect 2-3 years for U1.
- 3.1.2.**MCN crane status. Cranes 6 and 7 have performed two engineered lifts and cannot be used again this year. No changes, still working on getting the bays closed for the winter. Looking for a waiver to operate the crane for closing the bays. Other option is to relocate hoists. MCN is still exploring the options. Procurement for crane and hoist work is proceeding through the large cap program. Lorz asked if NWW would be providing a response to the letter they sent. Peery said he thought there may have been a response already. Regular updates will be provided through FPOM. Lorz is still amazed by the speed of the federal government, which is surprising since he has been working in FPOM for almost three decades. Discussed under Action Item 2.1.1.
- 3.1.3.**LWG tailwater monitors/LGS pool levels.
- 3.1.4.**JFF early start. NWW has offered 24 March start of JFF/condition samples based on data from early start trials. NWW does not support 15 March start requested by FPAC.
- 3.1.5.**Fish Transport program. Last barge trip will be 19 June. Truck transport to start 1 August per FPP, unless otherwise coordinated. No sampling at IHR or LMN due to 70F temps.
- 3.2. NWP Updates** Please note – spillway updates will be provided in a presentation in September.
  - 3.2.1.**Upcoming coordinated maintenance/construction/research activities.
    - 3.2.1.1.**1BON001 MOC Navigation Lock 1 Bridge Replacement. No FPP conflict. Work may not begin for many years.
    - 3.2.1.2.**23BON002 ITS end gate replacement. Installation is still expected for October. Inspection found a wheel bearing needing to be replaced.
    - 3.2.1.3.**23BON003 T11 outage.
    - 3.2.1.4.**BON FGE – Units 11 and 18 Scheduled from 30 Nov – 28 March. Expected completion is December 2023.
    - 3.2.1.5.**19TDA04 MOC – East side powerhouse crane rails. Next step is to replace the crane in the spring. Work is expected to be complete in the fall. The work will occur at the east end of the powerhouse, more than 100’ from the fishway exit.
    - 3.2.1.6.**18JDA02 MOC Trash rack replacement. MU16 done. Next update – fall 2023. Still working on the contract.
    - 3.2.1.7.**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.
    - 3.2.1.8.**22JDA20 MFR JDA-S Temps. Still accepting comments. Plan is to collect data this season. Arrays are deployed in the ladders and in the forebay. All temps reported to FPC. Taking additional temps with the Tidbits as well.
    - 3.2.1.9.**23JDA03-05 JDA-S fish turbine pumps 2 and 3 operating at reduced output. Parts for pump 3 should arrive soon and work will begin in mid-August.
  - 3.2.2.**BON Aqui-S. Public comment period in the spring, permit issued after.  
*Update on 230718 via email forwarded by Derugin - The draft NPDES general permit (with new/changed conditions highlighted in yellow), and the supporting fact sheet addendum which explains the basis for the new/changed conditions are available for review at <https://www.epa.gov/npdes-permits/npdes-general-permit-federal-aquaculture-facilities-and-aquaculture-facilities-located>*
  - 3.2.3.**TDA BRZ and the fishing boundary. Discussed under Action Item 2.2.2.
  - 3.2.4.**Wasco PUD smolt condition monitoring. Weekly reports are posted to the FPOM website.
  - 3.2.5.**JDA north pump #4. Budget request has been submitted. No funding received yet.

**3.3. FPP violation reporting.** Peery said NWW uses memos for violations longer than 30 minutes. Fishway criteria violations are shown in a table. NWP is fairly similar. Often times the deciding factor is whether or not the out of criteria issue impacts fish passage and not just fishway criterial. Conder would like to see the table at the beginning (or the very end) of the report so those looking for FPP criteria violations can find them in one place without having to sift through the entire report. Van Dyke echoed Conder’s comments. **ACTION: Conder will talk with Peery and Mackey to discuss potential reorganization of the weekly reports.**

**3.4. NWS updates.** No updates.

**3.5. Research/FFDRWG**

**3.5.1.SRWG.** Intent to solicit proposals to be sent this week. Proposals will be ready for review in August. There are four hydro summaries that are running out of cycle and no decisions have been made yet.

**3.5.2.NWP FFDRWG.** Next meeting will be 8 August and be combined with NWW.

**3.5.2.1.TDA AWS debris management.** TDA AWS EDR 90% ATR review is complete. PDT responding to comments. FFDRWG review - 7/10-8/4. Final Report - 9/29

**3.5.2.2.BON ITS PIT detection.**

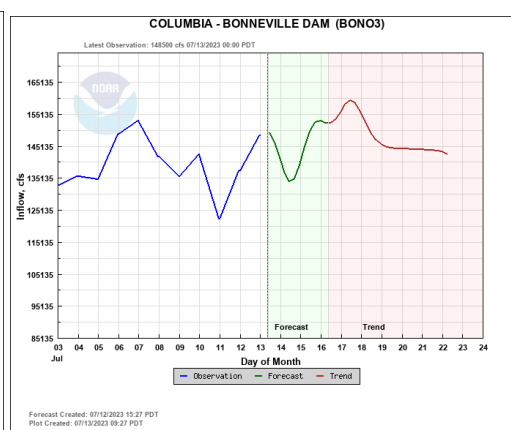
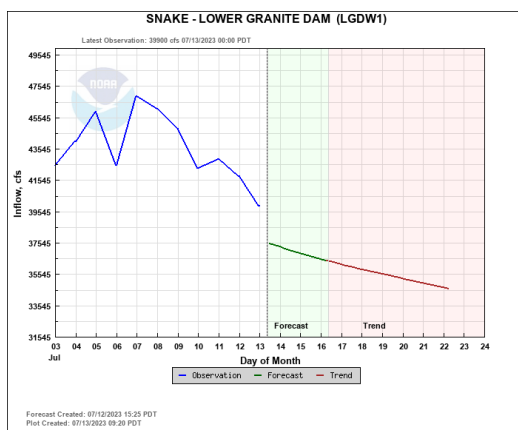
**3.5.2.3.BON B2FGE –** Everything on schedule. U13 will be OOS from August – September and U12 from September – October.

**3.5.3. NWW FFDRWG.** Will be combined with NWP for the August meeting.

**3.6. RCC update.**

**Table 1. RCC FPOM flow forecast.**

Project	Previous Day (7/12) Average Outflow (kcfs)	5 Day (7/17) Forecasted Inflow (kcfs)	10 Day (7/22) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	40	36	35	35 (7/22) / 38 (7/13)
MCN	162	156	137	131 (7/14) / 156 (7/17)
BON	142	158	143	134 (7/14) / 159 (7/17)



Project Data: <https://pweb.crohms.org/report/projdata.htm>

NWRFC Inflow Forecasts: <https://www.nwrfc.noaa.gov/rfc/>

**3.7. Fish Count Program (Peery, Wertheimer).** QC found one counter reporting sockeye as Chinook. Corrective actions have been taken. Ebel asked if video could be obtained. IDFG would like to investigate walleye at LWG. They would like to see if the video would be

available for walleye counting. Ebel will reach out to Peery to coordinate logistics of collecting the video.

### **3.8. Avian updates (10:30).**

**3.8.1.NWW.** Seeing terns, gulls, and pelicans. Pelicans in the LMN fishway. LGS and LWG have fewer birds. Lawonn asked if LMN could identify what the pelicans were feeding on. The likelihood is shad but there are also sockeye in the system. Lawonn suggested that pelicans don't tend to eat sockeye due to their size but if the Corps could get photos or videos, it would be appreciating. Van Dyke confirmed with Lawonn that ODFW doesn't oppose hazing pelicans. Lawonn confirmed that ODFW has no biological concern for hazing pelicans. Morrill sent two emails he would like included in the meeting minutes regarding pelican hazing. JDA has photos of pelicans eating shad that Grosvenor will share. Morrill also added that some smaller sockeye and jack Chinook would be pelican sized.

**3.8.2.NWP Avian EA/NEPA (Environmental Branch).** Gibbons reported that the EA process has been completed. Lorz asked when the Corps expects to have a permit in hand. Gibbons said USFWS is completing their review for FONSI. She doesn't have an update from USDA. The depredation permit should be submitted tomorrow, Monday at the latest, but she does not know how long before it is approved. Lorz asked if Cordie would have this in time for his retirement next year. Gibbons didn't see anything currently prohibiting that but until the permit is in hand, you just don't know.

**3.8.3.JDA.** Grosvenor said there are a lot of pelicans (600 loafing below the project), a couple dozen gulls, a few grebes and terns. 19 avian lines are down. Cancelling the 9 line repair contract due to lack of funds. Working on a contract for all 19 lines in FY24. Working with USDA to implement pelican hazing. Working on lines at the south fishway entrance to dissuade pelicans from the fishways. Van Dyke asked if pelicans are being hazed on the south side of the river. Grosvenor said the tori lines are being installed but no specific, targeted hazing. WDFW and ODFW reiterated that there is no obstacle to non-lethal hazing pelicans at the projects.

**3.8.4.TDA.** Cordie reported TDA also tried the tori line method to prevent pelicans from entering the fishways. Seemed effective for pelicans and other species, however, the lines are not very stable. Gull numbers are lower than normal, may be related to the pelicans in the areas. There are a few gulls working the spillway. Lawonn reported that the largest pelican colony in the Great Lakes area has collapsed, and we may be seeing some of those birds arriving here. He would like to know if the bios are seeing more pelicans this year than in previous years. Grosvenor asked if the birds below the bridge are included in the counts. Cordie said the counts only include the established zones.

**3.8.4.1.**Tori line images were included in the weekly report and may also be found at extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.afma.gov.au/sites/default/files/2023-02/Fact-Sheet-Tori-Lines.pdf

**3.8.4.2.**Miller Rocks. Falconers were also working Miller Rocks. No other updates have been reported.

**3.8.5.BON.** Derugin reported bird numbers are within normal range. Working on hazing signage and reducing fire damage/risk.

**3.8.6.**Estuary. Reports are available at [Documents / FPOM Avian Hazing Task Group \(crohms.org\)](https://www.afma.gov.au/sites/default/files/2023-02/Fact-Sheet-Tori-Lines.pdf)

**3.8.6.1.**ESI – 68 CATE on colony, 225 off colony. More birds seen with terrestrial predation damage. One egg and no fledgling on colony. No DCCOs in the established area. There were about 200 seen last month near the CATE colony.

**3.8.6.2.**Rice Island. Hazing CATE, DCCO, and AWP within authority. 55 CATE were loafing, 8 were nesting. Egg laying in decline. No CATE fledgings. Still some CATE morts being found during monitoring. These morts have been reported to the

appropriate authorities. Krasnow asked if egg take was required. Braun confirmed there was egg take. Krasnow asked if more equipment and personnel are still needed. Wertheimer said FFU is working on improving every year without over hiring. Krasnow would like to talk to Wertheimer about the dredge material management plan.

1400 DCCO on Tuesday. 91 AWP this morning, which is down from 400 earlier this month.

SHL are noted and not being disturbed. 18 SHL were spotted on one day this year.

**3.8.6.3.** Miller Sands. No CATE, DCCO, or AWP seen. Dredge equipment on the island.

**3.8.6.4.** Pillar Islands. 2 CATE, no DCCO or AWP.

**3.8.6.5.** Lawonn explained that egg take is a crucial tool and it one that may be restricted in the future. Strong said the original permit was for 200 and 194 eggs were taken.

Requested a permit for an additional 50 eggs and received it last week. Lawonn wants to know how many eggs can be allocated to Rice Island for removal. Strong said what is permitted now appears to be sufficient. Lawonn said he is concerned about future years. Based on what was seen on ESI (colony was a bust), if these birds head to Rice Island, will we be able to manage the birds? 1360 CATE was the max number seen this year. Max CATE in the estuary at one time is around 3000 birds (all islands).

Lawonn asked if there was more breeding effort on ESI or Rice. Strong said he isn't in a position to make a definitive statement since eggs on the ground may not be an accurate count. There are about 50 gulls that eat the eggs when the colony is flushed by the eagles. Lawonn believes Rice is where CATE will attempt to nest since there are fewer eagles. Wertheimer said FFU has identified Rice as a target for CATE and will work to build capacity. Lawonn said he appreciates that but he had heard that last year as well. Moving on to the avian flu issue, the CATE that were turned over for sampling did test positive and there appears to be a major outbreak in avian flu.

Lawonn would like any data about dead CATE that FFU can provide.

**3.8.6.6.** FPOM would like an update on the Astoria Megler bridge at the next FPOM meeting.

### **3.9. Pinniped update.**

**3.9.1.** BON. Wertheimer reported no animals returning at BON yet. Expect to see first Steller in late July. A California sea lion was seen upstream of BON. The annual report is expected to be available by 28 February. Conder said he heard there was a report of four sea lions above BON. Conder suggested Wertheimer talk with Doug Hatch. ODFW still has an active trap above BON.

**3.9.2.** Willamette Falls. No observations.

### **3.10. Lamprey update**

**3.10.1.** BON. Spectacular lamprey run this year.

**3.10.1.1.** Madson reported that peak has been seen, currently above 10-year average. BI wetted wall optic counters were 1959 lamprey. Uncorrected count is 83541 through June.

**3.10.1.2.** Update of lamprey trap operation (Lampman). Macdonald reported in Lampman's place. The Tribes are testing a floating lamprey trap in the BON tailrace in 2024. Lampman is looking for input from FPOM. Target location is the WS north monolith. Conder asked if the trap is silent. Macdonald said there is a pump moving water. Derugin said the pump will not be located on the trap. Conder said if the pump isn't on the trap then there needs to be some connection. He would like that sorted out to ensure no impacts to salmonid passage. Conder also asked about pinniped haul out potential. Ebel asked about the salmonid exclusion testing and take permits. Macdonald didn't have the answers but did say the testing for this year will be in a tank that only holds lamprey. He will talk with Lampman about the salmon testing. FPOM had many questions that are more suited for FFDRWG. There will be answers



provided at the FFDRWG meeting in August. Hesse explained that the purpose is to address the need to collect lamprey that approach the dam but do not enter or pass the fishway.

**3.10.2.TDA.** Translocation on-going.

**3.10.3.JDA.** 100 lamprey trapped on first night at the north LPS. This success was too much given that the elevator is not functional. CRITFC requested the LPS be shutdown for the season. The south LPS caught 70 lamprey in one day last week. Working on other minor mods. Elevator RTS is expected in the winter.

**3.10.4.NWW.** LWG juvenile lamprey study is between releases. Next release is scheduled for September.

**3.10.5.LAWG.** Next meeting is 2 August. Location is TDA Westrick Room.

**3.11.BPA Update.** Schedule available on the FPOM website.

**3.12.Budget Updates.**

**3.12.1.NWP/NWW Critical Fish Passage O&M needs.** NWW provided some new items. Spreadsheet is available on the FPOM website in the July 2023 meeting folder.

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

##### **4.1. NWW**

**4.1.1.23MCN07 MFR Emergency Opening of Bay 7.**

**4.1.2.23MCN08 MOC Installation of Hoist Bay 16**

**4.1.3.23IHR05 MFR Spillbay 6 Out of Service**

**4.1.4.23IHR06 MFR Spillway Outage to Repair Fishway Log Boom**

**4.1.5.23LGS09 MFR Fishway Cooling Pump Outage.** Morrill asked why this seal is so special that it takes six months to find a replacement. Lorz offered to buy silicone. Conder asked about a PM schedule. Ebel asked if there is an inquiry into why this is failing? Peery said they are looking if there is a potential deficiency. Peery also noted that LWG pumps were installed at the time the dam was built. Magel asked (in the chat) if there is any discussion or thought to streamlining the types of pumps across the projects so there could be duplicates or spare parts available in the event of an emergency. Hesse asked about a RTS date. Peery said there isn't one. Hesse then asked about current temperatures and thresholds for passage delays or blockage. Peery showed a temp graph. The pump went out on 29 June and there was nearly and immediate differential between ladder and exit. Once the record high temps dropped back down, the fishway and exit temps started to match better and remain that way up through today. The next few days are likely to be warm so the differential is expected to increase again. Current temps are around 60-70F at the top and 68F at the bottom. Hesse is not satisfied with the current status. Conder shared a personal story about how his well pump went out because it was a piece of crap pump so he bought a new pump. He asked why NWW doesn't just buy a new pump rather than continue to try to repair a faulty pump. FPOM was in general agreement with Conder's suggestion. Peery noted that he believes that is an option being looked at but he has not been included in those conversations. Peery will provide FPOM with any additional information he can.

**4.1.6.23LWG MFR Barges Loading Boom OOS**

##### **4.2. NWP**

**4.2.1.23BON024 MOC Old Navlock Dredge Placement – Updated.** Morrill said mile 141 is acceptable to WDFW but not at mile 144 (upper end of the Ives/Pierce complex). NOAA has similar concerns. Van Dyke isn't sure what input would be most appropriate right now.

**4.2.2.23BON026 – 36 MFRs for lamprey morts.**

**4.2.3.23BON037 MOC U18 Slip ring and brush repair.**

**4.2.4.23JDA24 MFR NFL LPS OOS.**

**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/](http://pweb.crohms.org/tmt/documents/fpp/2023/)

**5.2.** Pending Change Forms: no new or pending change forms.

**5.3.** Invasive species removal language. No change form yet, but includes the removal of invasive species during dewatering activities.

**6. Task Group Updates.**

**6.1.** Schedule falconry discussion (Peery/Morrill). This group will look at what was learned through the use of falconry this year and last year and how it might be beneficial to MCN in 2024.

**6.2.** MCN TSW operation in the summer (Peery). Look at biological and model data to determine an appropriate operation of the TSWs in the summer.

**7.** August FPOM will be held at BON for the annual FPOM BBQ. Meeting in the Auditorium training room, BBQ at Robin's Island.