

Subject: DRAFT minutes for the 14 September 2023 FPOM meeting. The meeting was held via WebEx, from 0900 until 1130.

**In Attendance:**

Last	First	Agency	Phone	Email
Andes	Carolina			
Ashline	Josh	BPA		<a href="mailto:jdashline@bpa.gov">jdashline@bpa.gov</a>
Barnes	Chuck	NWW		
Baus	Doug	RCC		
Borchert	Nick	USDA-WS	5094*10	<a href="mailto:nick.j.borchert@usda.gov">nick.j.borchert@usda.gov</a>
Braun	Mark	NWP-FFU		<a href="mailto:mark.w.braun@usace.army.mil">mark.w.braun@usace.army.mil</a>
Campbell	Noah	FPC		<a href="mailto:ncampbell@fpc.org">ncampbell@fpc.org</a>
Conder	Trevor	NOAA		<a href="mailto:trevor.conder@noaa.gov">trevor.conder@noaa.gov</a>
Cordie	Bob	NWP-TDA		<a href="mailto:Robert.P.Cordie@usace.army.mil">Robert.P.Cordie@usace.army.mil</a>
Day	Jim	NWP-TDA		<a href="mailto:james.e.day@usace.army.mil">james.e.day@usace.army.mil</a>
Derugin	Andrew	NWP-BON		<a href="mailto:andrew.g.derugin@usace.army.mil">andrew.g.derugin@usace.army.mil</a>
Ebel	Jonathan	IDFG	2088*51	<a href="mailto:jonathan.ebel@idfg.idaho.gov">jonathan.ebel@idfg.idaho.gov</a>
Fielding	Scott	NWP-PME		
Gallion	Darren	NWP		<a href="mailto:Darren.g.gallion@usace.army.mil">Darren.g.gallion@usace.army.mil</a>
Gibbons	Karrie	NWP-FFU		
Griffith	Denise			
Grosvenor	Eric	NWP-JDA		<a href="mailto:Eric.Grosvenor@usace.army.mil">Eric.Grosvenor@usace.army.mil</a>
Hausmann	Ben	BPA		
Hesse	Jay	Nez Perce		<a href="mailto:jayh@nezperce.org">jayh@nezperce.org</a>
Hiner	Ross	NWP-BON		
Johnson	Bobby	NWW-MCN		
Juhnke	Steven	NWW		<a href="mailto:Steven.d.juhnke@usace.army.mil">Steven.d.juhnke@usace.army.mil</a>
Kooi	Kris	USDA		
Krasnow	Lynne	NOAA		<a href="mailto:lynne.krasnow@noaa.gov">lynne.krasnow@noaa.gov</a>
Lawonn	James	ODFW		<a href="mailto:matthew.j.lawonn@odfw.oregon.gov">matthew.j.lawonn@odfw.oregon.gov</a>
Lotspeich	Michael	NWP-JDA		<a href="mailto:michael.d.lotspeich@usace.army.mil">michael.d.lotspeich@usace.army.mil</a>
Mackey	Tammy	NWP		<a href="mailto:Tammy.m.mackey@usace.army.mil">Tammy.m.mackey@usace.army.mil</a>
Macdonald	Jake	NWP-PME		
Madson	Patricia	NWP-FFU		<a href="mailto:patricia.l.madson@usace.army.mil">patricia.l.madson@usace.army.mil</a>
McCloud	Jonathan	BPA		<a href="mailto:jmmcccloud@bpa.gov">jmmcccloud@bpa.gov</a>
McDowell	Michelle	USFWS		<a href="mailto:michelle_mcdowell@fws.gov">michelle_mcdowell@fws.gov</a>
Miller	David	USACE		<a href="mailto:david.l.miller@usace.army.mil">david.l.miller@usace.army.mil</a>
Morrill	Charlie	WDFW	360*40	<a href="mailto:Charles.Morrill@dfw.wa.gov">Charles.Morrill@dfw.wa.gov</a>

Peery	Chris	NWW		<a href="mailto:Christopher.A.Peery@usace.army.mil">Christopher.A.Peery@usace.army.mil</a>
Petersen	Christine	BPA		<a href="mailto:chpetersen@bpa.gov">chpetersen@bpa.gov</a>
Rapp	Shawn	EAS		<a href="mailto:srapp@easbio.com">srapp@easbio.com</a>
Sharp	Bill	YN		<a href="mailto:bill_sharp@yakama.com">bill_sharp@yakama.com</a>
Smith	Greg	BPA		<a href="mailto:gmsmith@bpa.gov">gmsmith@bpa.gov</a>
Sullivan	Leah	BPA		<a href="mailto:lsullivan@bpa.gov">lsullivan@bpa.gov</a>
Swank	Dave	USFWS		<a href="mailto:David_Swank@fws.gov">David_Swank@fws.gov</a>
van der Leeuw	Bjorn	NWP-FFU	5038*12	<a href="mailto:bjorn.k.vanderleeuw@usace.army.mil">bjorn.k.vanderleeuw@usace.army.mil</a>
Van Dyke	Erick	ODFW		<a href="mailto:erick.s.vandyke@odfw.oregon.gov">erick.s.vandyke@odfw.oregon.gov</a>
Wright	Lisa	NWD-RCC		<a href="mailto:Lisa.S.Wright@usace.army.mil">Lisa.S.Wright@usace.army.mil</a>
			5036**27	
			5038**95	
	Trenton	YN		<a href="mailto:debt@yakamfish-nsn.com">debt@yakamfish-nsn.com</a>

## 1. Final actions or decisions.

1.1. August meeting minutes approved.

## 2. Action Items

### 2.1. NWW

2.1.1. [Sep 23] Avian Lethal take. **ACTION:** Peery will update the lethal take spreadsheet.

2.1.2. [Sep 23] MCN spillway crane and ERDC model. **ACTION:** Peery and Juhnke will work on a MCN spillway presentation.

2.1.3. LWG tailwater monitors/LGS pool levels. Peery sent info to Conder and will share with FPOM after receiving his comments. This will be on the November FPOM agenda for further discussion. **ACTION:** Peery will send info to FPOM after receiving NOAA comments.

2.1.4. [Aug 23] LGS Fishway Cooling Pump Repair/Replace. **ACTION:** Peery to provide the pump specs to FPOM. **STATUS:** Peery provided the specs. Conder asked if Peery was comfortable with the schedule. Peery said he isn't comfortable with the time since the parts are not on-site and the contract isn't awarded yet. Swank asked for clarification – there are two failed pumps that need to be repaired and a third that would be purchased. Peery confirmed and said the plan is to have a working pump and two spares. Conder would like to know how we get to workable pumps by the summer. He has concerns about the old, outdated, pumps. He doesn't understand why this cannot be accelerated. Peery noted that the contracting process has been moving quickly on this issue. The project is looking for a better pump and even once the contract is in place, the pump must be built, so it all takes time. Conder asked about the height needed for water to be pumped. Peery said the pump sitting on the deck would need to pull water 20'-30'.

### 2.2. NWP

2.2.1. [Sep 23] NWP/NWW Critical Fish Passage O&M needs. Conder asked for a task group to rank items. **ACTION:** Mackey will schedule a TG meeting after the November meeting.

#### 2.2.2.

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

2.3.1. [July 23] NWP/NWW Critical Fish Passage O&M needs. Spreadsheet is available on the FPOM website in the August 2023 meeting folder. Mackey said there are no changes from last month. **ACTION:** Mackey and Peery will send a formal email to NOAA with the current spreadsheet to meet BiOp requirements. **STATUS:** email sent by Studebaker at NWD.

### 3. Updates

#### 3.1. Budget and Infrastructure Updates.

3.1.1.NWP/NWW Critical Fish Passage O&M needs. Conder asked for a task group to rank items. **ACTION: Mackey will schedule a TG meeting after the November meeting.**

#### 3.1.2.NWP Spillway presentations

3.1.2.1.JDA – Grosvenor shared his screen and talked through the 230914 JDA Spillway for FPOM presentation. Morrill asked (via chat) how much flow over the top of spill gates on TSW's? Trevor Conder (via chat) 9-10K per TSW based on [https://pweb.crohms.org/tmt/documents/ops/spillbay/JDA\\_2023\\_08\\_f.html](https://pweb.crohms.org/tmt/documents/ops/spillbay/JDA_2023_08_f.html). Cordie asked what the first priority for JDA would be. Grosvenor said the PLC system and the crane. If the funding is Large Cap, it would be gear boxes and break assemblies. Ebel asked the probability of receiving funding. Grosvenor didn't have a good guess. He acknowledged that there are a lot of competing priorities but the spillway items did rank high. Ebel asked if the competition is within the District. Grosvenor said the MCIIP items are competed within the Division. Van Dyke asked where JDA is in the process of getting funding. Grosvenor said the presentation is for information but the Project has been working on getting funding for a number of years and there is a hope that some of the smaller actions can be completed in the next couple of years. He also noted there is now a comparison across projects to help allow management a better view of priorities across the District and Division. Van Dyke asked how a different view is different from a new process. Grosvenor said the ranking tool is different. Van Dyke would like to know how long these items have been on a list. Morrill asked if all projects could be completed if funded. Grosvenor said many would be contracted. Ebel asked if the budget items interact with the MCIIP list. Grosvenor noted the separation of F&W items from other items.

3.1.2.2.TDA – Cordie/Mackey shared his screen and talked through the 230914 TDA Spillway for FPOM presentation. Van Dyke asked about the comments that the spillways are operated in a manner they were not originally intended. He is trying to understand how the current operation differs from the original intent, is it in passing water or frequency of use. Cordie said it is the frequency in which the gates are adjusted.

3.1.2.3.BON – Mackey shared the 2300914 BON Spillway for FPOM presentation.

#### 3.1.2.4.from the chat

Hausmann to everyone: 10:07 AM Erick, maintenance schedule is a moving target with spill operations changing significantly over the years

from Trevor Conder to everyone: 10:13 AM Spill has changed significantly, however, TDA, JDA, MCN, IHR, and LGS have spilled to a percentage since 2008 i.e. gates move every hour.

from Eric Grosvenor to everyone: 10:16 AM JDA flex spills for 8hours during the spring from TDG to 32%. Can be split into 2 4 hour blocks. This equates to a TON of additional movement.

from Ben Hausmann to everyone: 10:18 AM Agreed Trevor. And compared to flood management, the fish spill is exponentially degrading spillways based both on equipment operation (wire ropes, trunnion pins, etc) and spill duration (stilling basin degradation). Having exponential spillway maintenance probably isn't realistic financially or feasibility wise.

Ross Hiner, NWD Dam Safety to everyone: 10:26 AM yea, this is "invasive"

from Trevor Conder to everyone: 10:26 AM Flexspill is in the Proposed Action, and maintenance was a major consideration in that decision and subsequent consultation, correct?

from Ben Hausmann to everyone: 10:30 AM Absolutely Trevor. However, I think the evaluation of accelerated degradation and the subsequent and appropriate enhanced maintenance is easier said than done.

from Bob Cordie to everyone: 10:32 AM another issue; construction requirements have changed significantly since original construction. Similar to changing building codes. Gates at TD (I assume same for JD and BN) are considered under-designed.

### 3.2. Avian updates (10:35).

**3.2.1.NWW.** Relatively few birds. EDR identified as a good candidate for an AE contract.

Krasnow asked if the contract path will get wires in place by next spring. Juhnke said no, it will still be a few years. Krasnow asked what the back up methods of hazing will be until then. Peery said USDA is talking about scheduling their hazing day to target busy times of day, moving hazers further downstream, waiting until lower spill, splitting their day, etc. Macdonald asked if falconry will be used. Peery said NWW is waiting to see how TDA's efforts turned out. Van Dyke asked where spill is pushing hazers. Peery said usually hazers get up to the juvenile outfall pipe but during spill, birds are not foraging in that area as much. Lawonn asked if lethal take is being used at MCN. Peery said it is and USDA determines when to use lethal take. **ACTION: Peery will update the lethal take spreadsheet.**

**3.2.2.NWP Avian EA/NEPA** (Environmental Branch). No update.

**3.2.3.JDA.** 20/125 lines down. Submitting a UFR packet to request funding for avian wire repair. Krasnow asked if all methods will be available in the event the lines are not repaired. Krasnow asked if falconry is available, as well as lethal. Grosvenor said falconers have been out but there are concerns with flying birds with the extensive avian array.

**3.2.4.TDA.** Few gulls, usually there are quite a few. Cormorants are still around the project. Tory lines are still deployed. No pelicans.

**3.2.4.1.Miller Rocks.** Sharp reported activities began once eggs were on the ground. Used air cannons and falconry. Falcons worked Tues-Thurs. Human presence through mid-June. Gulls spent a lot of time defending nests rather than foraging. 2024 is the final year of the study. McDowell clarified that Falconry is hunting and taking and Falconry Abatement is harassment. Krasnow asked if RTR will be scanning for PIT tags. Grosvenor said JDA has been talking with RTR and offering to assist but RTR may already be done on Miller Rocks. Morrill asked if falconry abatement will be used next year. Sharp said yes, though the gulls can get a bit intimidating for the smaller falcons.

**3.2.5.BON.** Most of the gulls have dispersed. No pelican sightings.

**3.2.6.Estuary.** Reports are available at [Documents / FPOM Avian Hazing Task Group \(crohms.org\)](https://www.fishbase.org/Document/FPOM-Avian-Hazing-Task-Group)

**3.2.6.1.ESI.** No CATE. 400 AWP. 1000 brown pelicans. 659 DCCO. Saw DCCO chicks on the ground, west side of ESI. Nests were about 35 yards from the fence. Lawonn asked when the nests were initiated. Strong didn't have a date but noted breeding can continue through September and the chicks were about 2-3 weeks old. Nests were probably created about seven weeks ago. No CATE productivity this year. Lawonn asked if there were any further signs of avian flu. Strong said there has been a significant drop in cases.

**3.2.6.2.Rice Island.** No CATE. 2 DCCO. 80 pelicans.

**3.2.6.3.Miller Sands.** No CATE. 85 DCCO.

- 3.2.6.4. Pillar Islands. 17 DCCO. Decreased DCCO on the channel markers.
- 3.2.6.5. Astoria Megler Bridge. Lawonn asked if the Astoria Megler Bridge is included in the BPA funded flights. Smith said yes, the bridge is included, as are the Troutdale towers but these will not be as intense in monitoring since there are only two flights. Lawonn said RTR has done the boat based surveys as well.
- 3.2.6.5.1. McDowell asked what is scheduled for 2024 as far as surveying for birds. Macdonald said there is a research summary routing through AFEP.
- 3.2.6.5.2. Smith said BPA will continue to fund two flights and some recovery efforts for 2024. McDowell said that will help with the Pacific Flyway. Peery asked if the flights will also cover Crescent and Badger Islands. Smith said yes, there are only two flights but they will get as far upstream as Crescent and Badger. Lawonn asked if the Astoria Megler Bridge is included as well. Smith said yes, the bridge is included, as are the Troutdale towers but these will not be as intense in monitoring since there are only two flights.

### 3.3. NWW Updates

- 3.3.1. Upcoming coordinated maintenance/construction/research activities.
  - 3.3.1.1. 22 LWG 04 MOC T1T2 Gasket Repair. New dates Nov 28-Jan 31. Will work on T1C first and then T1B. No changes.
  - 3.3.1.2. 23 LGS Unit 5 Commissioning. Postponed to Fall/Winter 2023.
  - 3.3.1.3. LGS Fishway Cooling Pump Repair/Replace.
  - 3.3.1.4. 23LMN09 Unit 4 testing. Completed 30-31 August.
  - 3.3.1.5. 23IHR07 MOC Unit 3 Biological Testing. 21 Sep – 2 Oct. Overshoot spill on Mon, Thur, Sat.
  - 3.3.1.6. 23IHR09 MOC Unit 3 Exciter testing. Completed 28 August.
- 3.3.2. MCN crane status. Cranes 6 and 7 have performed two engineered lifts and cannot be used again this year. Peery shared an outline of the different aspects of the crane replacement/repair.
- 3.3.3. MCN ERDC Model. \$1.5M needed. Currently in the scoping phase. R. Laughery is leading the effort. ERDC is identifying the site of the new model and is ready to start once funds are available in the new FY. Morrill asked if the spillway info could be compiled into a presentation, similar to NWP. **ACTION: Peery and Juhnke will work on a MCN spillway presentation.** New models will be more functional and built with new technologies/capabilities. Hesse asked questions about the functionality of the models for the other projects. Juhnke believes Sean Milligan requests a status update on all of the other NWW project models. Hesse suggested adding a frequent customer incentive punchcard. Juhnke said there are more nimble funding options when working with ERDC that, hopefully, will allow for quicker materials purchase. Morrill asked if ERDC has had any damage due to weather. Juhnke had no information indicating there have been any issues.
- 3.3.4. LWG tailwater monitors/LGS pool levels. Peery sent info to Conder and will share with FPOM after receiving his comments. This will be on the November FPOM agenda for further discussion. **ACTION: Peery will send info to FPOM after receiving NOAA comments.** Hesse asked if the spillway gauge was moved. Peery will have to find out.
- 3.3.5. JFF early start. No change in status.
- 3.3.6. Fish Transport program. Switched to smaller trucks. Continuing through November.

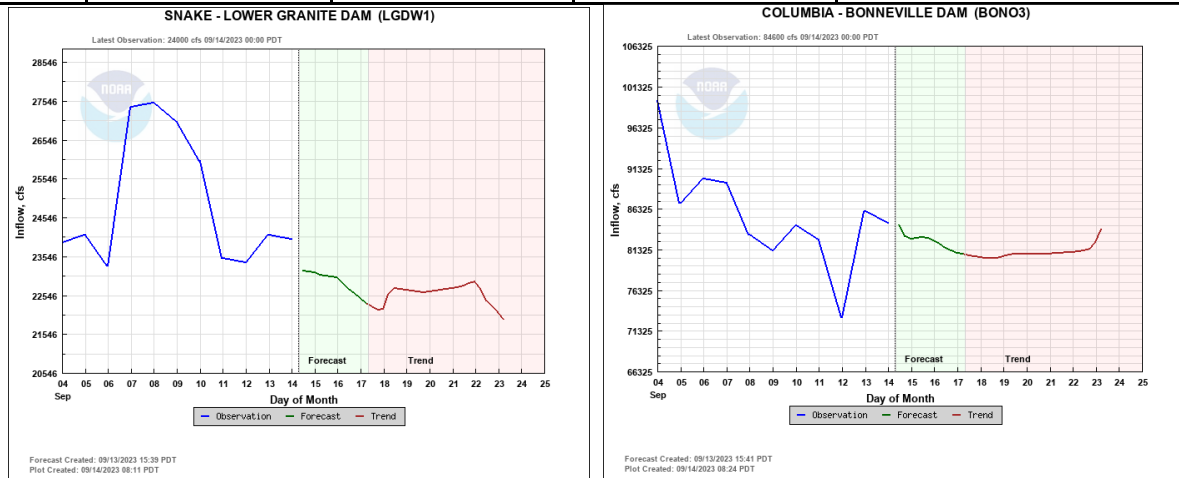
### 3.4. NWP Updates

- 3.4.1. Upcoming coordinated maintenance/construction/research activities.
  - 3.4.1.1. 19BON001 MOC Navigation Lock 1 Bridge Replacement. No FPP conflict. Work may not begin for many years.

- 3.4.1.2.23BON002 ITS end gate replacement. Installation is still expected for October. On track. Bulkhead placement has been started.
- 3.4.1.3.23BON003 T11 outage. Still on track.
- 3.4.1.4.BON FGE – Units 11 and 18 Scheduled from 30 Nov – 28 March. Expected completion is December 2023. On schedule. The gatewell dipping basket has been working great. Unit 12 is the final unit and everything is on track.
- 3.4.1.5.23BON077 MOC Spillway Rock Removal Hydrosurvey results. Waiting on the report.
- 3.4.1.6.19TDA04 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. No changes.
- 3.4.1.7.18JDA02 MOC Trash rack replacement. MU16 done. Next update – fall 2023. Still working on the contract. No changes.
- 3.4.1.8.20JDA04 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. No changes. No unit outages needed.
- 3.4.1.9.22JDA20 MFR JDA-S Temps. Still accepting comments. Plan is to collect data this season. Arrays are deployed in the ladders and in the forebay. Collecting data and will include in the annual report.
- 3.4.1.10.23JDA03-05 JDA -S fish turbine pumps 1 and 2 operating at reduced output 55 rpms, 3 OOS for gearbox repair. Contractor is on-site. Bearings have passed inspection and will be used.
- 3.4.2.NWP ROV inspection results**
  - 3.4.2.1.BON ROV inspection results (23BON083). Uplifted grating at the PH2 collection channel. Looking at having divers reseal the grates during the winter.
  - 3.4.2.2.TDA. ROV inspection results (23TDA11). Temporary repair for the displaced grating. Will make more permanent repairs during winter maintenance. Fish Units operated reduced output.
  - 3.4.2.3.JDA
- 3.4.3.BON Aquia-S. <https://www.epa.gov/npdes-permits/npdes-general-permit-federal-aquaculture-facilities-and-aquaculture-facilities-located>
- 3.4.4.BON Units tripping offline (23BON079-81 and 23BON84). Issue has been resolved.
- 3.4.5.JDA Gatewell mortalities (23JDA33-35). Morts were a result of the broken orifice shaft. Gatewell was dewatered and the orifice was repaired. The camera system was OOS and an ROV was used to determine a blockage but didn’t get too close to the open orifice. Conder stressed the need to have the camera train operational during fish passage system. Grosvenor said JDA is using very simple tools when the camera system is OOS. This time they used a bobber system to see if the orifice was open or closed. The camera train was OOS for three weeks while parts had been ordered.
- 3.4.6.JDA north pump #4. Budget request has been submitted. No funding received yet. No update.
- 3.4.7.**Project elevations** – Conder asked for some clarification on the B2CC sill elevation.
- 3.5. **NWS updates.** No updates.
- 3.6. **Research/FFDRWG**
  - 3.6.1.SRWG. SRWG: Proposal review meeting next Thursday 9/21 @ 1400. If you don’t have it on your calendar and want it, let me know.
  - 3.6.2.NWP/NWW FFDRWG.
    - 3.6.2.1.FFDRWG: Next FFDRWG will be October 5th. I need to send a new recurring invite for 1st Thursday of every month in FY24. I will send that today. If you don’t receive it and want it, let me know.
- 3.7. **RCC update.**

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

Project	Previous Day (9/13) Avg. Outflow (kcfs)	5 Day (9/18) Forecasted Inflow (kcfs)	10 Day (9/23) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	24	23	22	22 (9/23) / 23 (9/14)
MCN	84	74	81	74 (9/18) / 76 (9/14)
BON	83	80	84	80 (9/18) / 84 (9/14)



Project Data: <https://pweb.crohms.org/report/projdata.htm> NWRFC Inflow Forecasts: <https://www.nwrfc.noaa.gov/rfc/>

**4.1. Fish Count Program (Peery, Wertheimer).** Should have the notice of solicitation out in the next week. The notice has to be out for about two weeks before the solicitation goes public.

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

**4.3. Pinniped update.**

**4.3.1.BON.** van der Leeuw reported a total of 5 Stellers this week. This is below the trigger for predation monitoring. States and Tribes started trapping this week. Weekly report should be available from them this week. The 2023 FFU report will be available by 29 February.

**4.3.2.Willamette Falls.** No update from ODFW.

**4.4. Lamprey update**

**4.4.1.BON.** Lamprey mods moving forward. Trapping went well. 163688 lamprey passed BON. Watted Wall 2149 lamprey. These are uncorrected counts. Planning for minor mods this winter.

**4.4.2.TDA.** Trapping is over. Moving forward with LPS construction.

**4.4.3.JDA.** Trapping wrapped up last week. 3000 lamprey for the year. Working on Accords projects and south entrance weir mods.

**4.4.3.1.JDA-N elevator.** Contractor is rewinding the motor and building the controller. Expect to have available by the start of next season.

**4.4.4.NWW.** No updates

**4.4.5.LAWG:** Next quarterly meeting will be Nov. 16-17. LAWG is excited for construction of two new lamprey collectors and associated entrance improvements at Bonneville B Branch and The Dalles this winter. Looking forward to construction of the Bonneville Washington Shore control section next Winter. Questions? Contact Jake.

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

**5.1. NWW****5.1.1.23LMN08 MFR Spillbay 5 OOS****5.1.2.23LMN09 MOC Unit 4 Testing****5.1.3.23LMN10 MOC T2 Commissioning and Load Testing.** No enough flow to operate two units at full speed for the 24 hour test. Will be postponed. Will proceed with the 50% test on 6 October during evening/night hours.**5.1.4.23LWG10 MFR AWS Pump 3 OOS****5.2. NWP****5.2.1.23BON085 – 091 MFRs mort memos****5.2.2.23JDA36 MFR SFL mort****6. Fish Passage Plan****6.1.** 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/)**6.2.** New Change Forms:**6.2.1.** Change forms for MCN, IHR, LMN, LGS, and LWG to change the surface spill start date to 1-SEP.**6.3.** Invasive species removal language. No change form yet, but it will include the removal of invasive species during dewatering activities.**7. Task Group Updates.****7.1.** 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.Meeting will be scheduled after TDA provides an update on their falconry results. **Task Group will meet prior to 5 October.****7.2.** MCN TSW operation in the summer (Peery). Look at biological and model data to determine an appropriate operation of the TSWs in the summer. Waiting on data before scheduling a meeting.**8. Next FPOM meeting will be 5 October.**