

Subject: Final minutes for the 11 May 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. April meeting minutes approved.

## 2. Action Items

### 2.1. NWW

2.1.1. [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.

2.1.2. [APR 23] Fish Count SOW. **ACTION ITEM:** Peery will send the SOW. He has already sent the schedule and species. Status: SOW and summary of QC procedures were emailed to FPOM. **STATUS: sent out to FPOM and posted to the 2023 April FPOM folder. Peery received comments from FPC. He will send to Mackey for posting.**

### 2.2. NWP

2.2.1. [May 23] Pelican hazing. **ACTION:** Mackey will work with the Projects and PME to craft a letter.

2.2.2. [APR 23] JDA-N lamprey collection. Porter suggested JDA bios collect the fish daily and put them in the tanks for the tribes. **ACTION ITEM:** This will require additional information and coordination before JDA can agree. **STATUS: JDA has concerns about the additional workload. JDA Fish will talk more with Laurie and with NWP.**

- 2.2.3.[APR 23] Pelican hazing in the estuary. McDowell asked about the plan for pelicans on Miller Sands. Strong said we are monitoring. Morrill suggested WDFW would be fine with hazing prior to egg deposition. **ACTION ITEMS:** He will get answers and send those to Mackey for sharing with FPOM. **STATUS:** *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.*
- 2.2.4.[APR 23] Pelican hazing at the dams. **ACTION ITEM:** Morrill said he believes WDFW would be ok with TDA hazing pelicans that are believed to be feeding on salmonids (as opposed to shad) but he will confirm that and report back to FPOM. **STATUS:** *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. Cordie asked what would TDA do if there is a pelican in the fishway today. Morrill said the pelican could be hazed but the letter would provide a more solid footing. Bellerud asked about a rescue operation. Morrill said there is no approval for handling pelicans at this time. Cordie added that USFWS requires a permit to handle pelicans and the Corps does not have that yet. More to come.*
- 2.2.5.[APR23] NWP FFDRWG updates. Macdonald said written updates were not sent as there are no real critical updates. **ACTION ITEM:** Macdonald will check back with the TLs and send any updates, if there are any. **STATUS:** *completed*
- 2.2.6.[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.*
- 2.3. **Completed Action Items or to be discussed later in the agenda.**

### 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 change.
- 3.1.1.2. 23MCN02 MFR Spillbay 16 closure and 23MCN001 FPP Change; cranes, hoists, and spillgate repairs.
- 3.1.1.3. 23LGS04 MOC Unit 5 Shaft installation. Completed.
- 3.1.1.4. 23LGS05 MFR Unit 5 Roof hatch repair. Completed.
- 3.1.2. MCN crane status. Cranes 6 and 7 are operational but cannot be operated remotely from the Control Room. Peery provided visual aids.
- 3.1.2.1. Bay 16 – MFR sent and work expected to be completed today.
- 3.1.2.2. Hoist 6 repairs – waiting on parts.
- 3.1.2.3. Cranes 6/7 – MFR sent after receiving a letter indicating that the bays may only have 2 overload lifts per year. Bay 2 will be at 4 stops and Bay 6 at 6 stops (open). Until there is a plan in place, these bays may have to remain open all year. Bettin asked who made that decision. Peery said it was the NWW Safety folks in Design Engineering. Peery said the original plan was to be minimal operation and he was not on the original distribution for the Safety memo that was sent in January. Conder asked if Peery was going to modify the FPP to account for this change in the spill operation. Peery said he will work on a FPP update but he hopes for a better plan to be agreed to. Van Dyke asked if there has been any plan to fix the cranes. Peery said the plan for repair centers around two courses of action – normal funding and aggressive funding. Plan is for new cranes, new hoists, and replacing spill gates. Aggressive funding will cut the timeframe with relatively minimal increase in costs.

Swank asked about the pros and cons of rehab v replace. Rehab gets a good spillway but replacement gets you a better spillway. Swank asked for more details about the difference between normal and aggressive funding. Peery said the aggressive funding schedule would allow for maybe having components worked on off-site, or reduce some steps in the planning process. Porter asked where the funding would come from for the aggressive funding strategy? Peery said the funding would be in addition to the existing appropriations funding streams. Porter asked if that means NWW would need to express capability in a compressed timeframe. Peery said NWW is looking at 8-10 years as opposed to 10-14 years. Costs are in the range of 100s of millions of dollars.

- 3.1.3.** LWG tailwater monitors/LGS pool levels. Discussed at TMT on 10 May. RCC gave a presentation on how TW is balanced at the dams. Peery doesn't have details about impacts to fish passage but at TMT Conder had suggested a task group. Spill and low flows resulted in low tailwater at LWG. LGS raised their forebay 6" but it didn't bring the fishways into FPP criteria. Conder would like to see the tailwater elevations, with timestamps. He would also like to see past data to compare operations with impacts. Conder would also like to know if the tailwater at the pump is at the same elevation as the rest of the tailrace. He also brought up the potential to close some entrances to help maintain FPP criteria. Holdren said the readings are gathered during inspections. The data is submitted with the annual reports. When in MOP, the pump has to be run in slow mode. Two of the FOGs have been closed during the season to help maintain FPP criteria, however, FPOM asked for all four to be open so that is the current operation. **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. Morrill asked if Holdren has seen any impacts to adult passage that has caused her concern. She said she hasn't seen anything. Morrill is curious if anything they learn or do will have an impact on adult passage. Ebel agrees with Morrill and Conder.
- 3.1.4.** JFF early start. Peery showed a table with the early start information for NWW from 2018 – 2022. Looking at the data, Peery recommends refining the early start to last week of March. Large spikes in collection in early March are often correlated to hatchery releases. Van Dyke said part of the reason for the operation is to provide passage for fish in March. He would like FPOM to be a little more thoughtful in this operation since it is providing passage for those early juveniles. Peery agreed but also noted that there are trade-offs and those need to be considered. Early starts reduce the winter maintenance period and run in to the potential for weather related issues. Van Dyke said Peery's point are not being overlooked but the important note is the observation of the data and interpreting what it means. Peery is going to complete his data compilation and send it to FPOM for more discussion. Lorz asked when start up dates for 2024 would need to be known. Peery and Holdren would like to know sooner rather than later since the winter maintenance season is already full. Peery said no later than June/July. Ebel asked about a 15 March start date. Peery said he doesn't believe it gives a lot more than starting 22 March and is one less week for winter maintenance. Ebel said the PIT data is showing that fish will move when passage is provided. He believes 15 March is a reasonable compromise. Morrill agrees with Ebel and understands the Corps' concerns but the 15 March date is desirable. Morrill said this would be focused on LWG, LGS and maybe LMN. Peery will take 15 March back to the Projects to see how it impacts their maintenance. Peery will get back with FPOM prior to the next meeting with the input he has received.
- 3.1.5.** Fish Transport program. Flows and fish numbers increased. Barging is every other day. Peery showed graphs with the barging numbers. On 4 May, collection numbers increased significantly. Holdren convinced the barge company to add a third barge on 4 May. By 6 May, barging has been less than collection. About 1M fish were bypassed. Flows are

expected to increase again. There has been talk about increasing to daily barging however, NWW doesn't believe they will need to do that since the fish numbers are decreasing and hatchery releases have already moved through. Future years may require pre-emptive daily barging to avoid bypassing fish. Ebel believes there will be another big pulse. He predicts the sockeye will show up in about 5 days and he doesn't want to see them in barges. Peery said they are expecting another pulse but they believe it will be a little more spread out. Holdren is confident they will be able to barge all fish collected. Van Dyke asked about the bypass system. Holdren explained that the secondary bypass is how fish are released back to the river. There is the emergency bypass, before fish reach the facility; primary bypass which diverts fish to the river before they are collected; secondary bypass for fish that were collected but then need to be released. Van Dyke expressed concern about the handling of fish going through the secondary bypass. Holdren also reminded FPOM that any condition monitoring fish are released through the secondary bypass. Conder said that there is concern about holding fish in the raceways during the high TDG episodes. Peery will re-look at the daily/every other day schedule for 2024.

**3.1.6.LGS GBT monitoring.** Peery said TDG monitors have been added to the raceways. When there is gas cap spill, high TDG, and fish held in the raceways, Conder suggested spot checks on the fish for GBT. SMP didn't think the GBT spot checks would be thorough enough to provide valuable information. There was a breakdown in next steps at this point so no sampling has occurred yet. Conder said he understands and would like to move forward with spot checks. **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.

### 3.2. NWP Updates

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

- 3.2.1.1.1BON001 MOC Navigation Lock 1 Bridge Replacement.** No FPP conflict.
- 3.2.1.2.23BON002 ITS end gate replacement.** Installation is still expected for October.
- 3.2.1.3.23BON003 T11 outage.** No changes.
- 3.2.1.4.BON FGE – Units 11 and 18 Scheduled from 30 Nov – 28 March.** Expected completion is December 2023. On schedule. An evaluation is being worked through SRWG.
- 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 summer. 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.
- 3.2.1.7.20JDA04 MOC STS crane replacement.** In the fabrication portion of the contract. Scheduling 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.
- 3.2.1.9.23JDA03-05 JDA-S fish turbine pumps 2 and 3 OOS.** Turbine pump 2 returned to service at 55 rpm. Turbine pump 3 Gearbox contract should be awarded this week.
- 3.2.2.BON Aqu-i-S.** Public comment period in the spring, permit issued after. No update.
- 3.2.3.TDA Spillway.** Bay 10 not yet outfitted with the Bay 9 ropes and drums, still the plan to complete this year. Working on new seals.
- 3.2.4.TDA BRZ and the fishing boundary.** Sport fishing occurs every year at the exit. The exit is outside the BRZ so WDFW needs to manage the regulations to keep fishermen away. Last year seemed to work but this year the fishermen are back to withing >200' of the fishway exit. TDA has contacted OSP and WDFW. Cordie is working with Morrill. Van Dyke asked if CRITFE could be included.
- 3.2.5.Wasco PUD smolt condition monitoring.** Weekly reports are posted to the FPOM website.
- 3.2.6.JDA north pump #4.** Budget request has been submitted. No update.

**3.3. NWS updates. No updates.**

**3.4. Research/FFDRWG**

**3.4.1.SRWG.** In the research summary prioritization phase. Next stage is requesting proposals.

**3.4.2.NWP FFDRWG.** Meeting held last week. Next meeting is 1 June and will be held at BON. July will be a NWP/NWW FFDRWG combo. If it works, FFDRWG will run a little more like FPOM.

**3.4.2.1.TDA AWS debris management.**

**3.4.2.2.BON ITS PIT detection.**

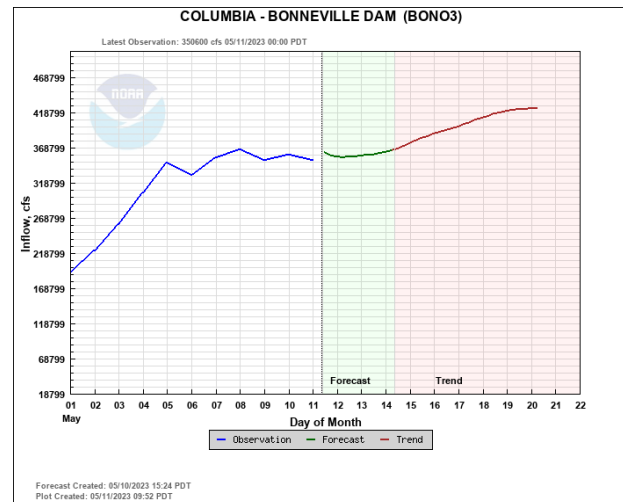
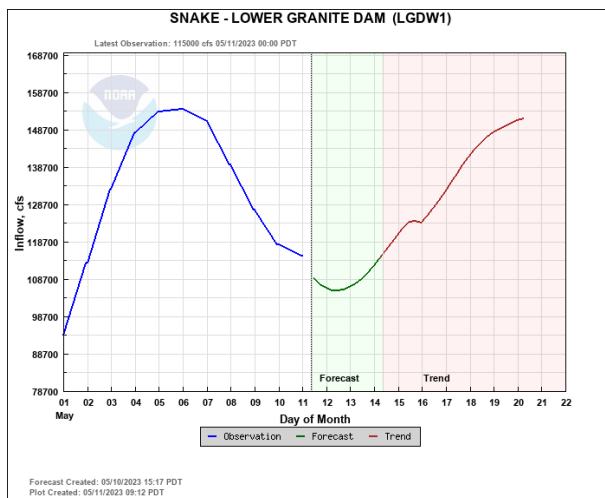
**3.4.2.3.BON FGE study.**

**3.4.3. NWW FFDRWG.** Meeting held 27 April. Main topics were lamprey construction.

**3.5. RCC update.** Bettin noted that we are getting to the point where we may need to move back to the mid-range. He asked if that should be delayed. Conder suggested delaying FGE work. U17 has already been started though.

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

Project	Previous Day (5/10) Average Outflow (kcfs)	5 Day (5/15) Forecasted Inflow (kcfs)	10 Day (5/20) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	115	122	152	106 (5/12) / 152 (5/20)
MCN	333	348	392	326 (5/11) / 392 (5/20)
BON	361	378	425	355 (5/12) / 425 (5/20)



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

**3.6. Fish Count Program SOW (Peery, Wertheimer).** Need all comments on the new PWS ASAP.

Van Dyke would like more timely updates to corrected counts. Strategy now is to head off problems before the counts are posted. Focus is on how to quickly correct counts after incorrect counts have been posted.

**3.7. Avian updates (10:30).**

**3.7.1.NWW.** Hazing in double shifts. USDA is challenged with labor shortages. Spill is pushing everything downstream. Lorz asked if there is boat hazing at MCN. Lorz recommends focusing on boat-hazing at MCN, if priorities have to be made. Peery clarified that the USDA hazers are covering all of their shifts. Juhnke said FFDRWG is moving forward with avian wires at MCN. Lorz asked when the alternatives will be shared with the Region.

**3.7.2.NWP Avian EA/NEPA (Environmental Branch).** Dorsey reported that there were no comments on the draft EA. NWP is coordinating with APHIS and USFWS to wrap up

documentation and move towards a FONSI. Lorz asked if the permit will be in hand according to the NWP schedule. Dorsey said the team is working in that direction. The end is in sight and they are working on getting it out as quickly as possible. Lawonn said he hasn't see the draft EA, he asked where it could be found, and if it was sent to Oregon.

Mackey noted that the link has been in the agenda and the April meeting minutes.

<https://www.nwp.usace.army.mil/Media/Public-Notices/Article/3348141/draft-environmental-assessment-of-avian-deterrence-open-for-public-comment/>

- 3.7.3.JDA.** Grosvenor said there are about 20 active grebes in the forebay, 20-30 gulls in the tailrace, 20 pelicans on the island below the dam. Still working the contract for avian wire repair. Watching for activity in the gap but nothing noted yet.
- 3.7.4.TDA.** Cordie reported seeing about 50 gulls, which is a decrease. Cormorant numbers have been reduced due to tower hazing but now TDA believes there are eggs so they stopped harassment. USDA hazing is on-going.
- 3.7.4.1.Falconry.** A week ago was pretty discouraging because it looked like there was no impact on the gulls. The contractor is now trying some new tactics. One is a mock kill, where the falcon is feeding on a dead gull. Only a few pelicans. Lawonn asked how many cormorants are on the towers. Cordie confirmed about 15 cormorants. Lawonn asked about the nesting materials. Cordie said some material did persist. BPA has indicated a willingness to do something about the tower habitat but not sure what that will look like yet. Lorz suggested this might be a good job for Cordie after his retirement.
- 3.7.4.2.Lorz** asked if the gulls have been pushed downstream with the increase in spill. Cordie said yes, the gulls have been pushed downstream.
- 3.7.4.3.Miller Rocks** – Grosvenor said he has seen YN out there over the past week or two. Lorz can reach out to Bill Sharp for an update to get added to the notes.

*Update from Bill Sharp – MRI update. 2023 activities are underway.*

*Air-Cannons deployed on April 17, two on the main islands and one on Shaver grain mooring barge (loafing area) on the OR side (thanks to Blaine for setting that up). Gulls on MRI habituated to air-cannons within two weeks. Nests are within 15 feet.*

*Falconry abatement began on April 24. About a month later than the 2022 season start. Project staff elected for a later start in our attempt to move or collapse this colony. Our efforts are to keep gulls aloft and hazed (morning to dusk) Mon-Thurs in order to disrupt egg incubation and eliminate viability. Thinking too that this strategy will eliminate the need to feed offspring. Standard hazing actions include human and dog (kick-ass blue heeler) presence, cracker and screamer shells, and handheld green lasers (used at dusk).*

*YN has received a USFWS 2023 take permit (200 nests with eggs destroyed). We've elected to hold off on this at this point in an attempt to disrupt egg incubation across the entire colony. On May 10, we took four nests to determine the egg development stage. It appears that we're having success with this strategy as egg maturation on our limited sample (11 eggs) seems to be impacted with only one yolk showing some maturation. Early nests were selected for observation.*

*USFWS and YN are meeting bi-weekly for project updates on MRI, Columbia River and Yakima Basin efforts.*

*Let me know if you need additional info. Thanks, Bill*

- 3.7.5.BON.** Derugin said bird numbers are up and higher than usual. Most are feeding around the B2CC and the JMF outfall. Seeing about 40 gulls. Hazers are on-site.
- 3.7.6.Estuary.** Strong reported. FPOM thanked the team for their work.
- 3.7.6.1.ESI** there are 1580 CATE on the colony and 500 CATE on the beaches. DCCO numbers are low. There are eggs on colony. Lorz asked about PIT tag seeding. Braun reported that tags were seeded only on colony. Lorz also asked about eagles. Braun said there are about 7-8 eagles flying around. The colony is sometimes flushed

by those raptors. Macdonald asked if tags could be tossed into the off-colony site. Braun said most of the birds are below the rock line and would be washed away.

- 3.7.6.2. Rice – surveying daily. Hazing to keep CATE within 193 and no DCCO. No eggs laid.
- 3.7.6.3. Miller – not set foot on the island due to the pelican colony with two active nests. CAP flights will cover the island next week and better numbers will be available then. No CATE or DCCO on island.
- 3.7.6.4. Pillar – 142 DCCO, though the number fluctuates. 11 May - pilings had about 251 DCCOs and 7 pelicans in the water. On 4 May - 480 DCCO on the pilings and about 350 in the water.
- 3.7.6.5. Lawonn asked about the ability of the CAP flights could capture CATE colonies in Gray's Harbor. McDowell said it isn't in any workplans right now. He would like to have people think outside the basin for monitoring CATES. Macdonald said he has seen CATE colony of several hundred birds on the west spit of Long Island in Willapa Bay the last several years, but he has no idea of productivity.
- 3.7.6.6. Krasnow asked if there has been any monitoring of the island near MCN. Peery said he believes it will be part of the CAP flights.
- 3.7.6.7. Morrill asked Lawonn about the plans for the Astoria-Megler Bridge. Lawonn said he has done evening roost surveys for DCCO. He reported about 20% fewer DCCO last week but as of last night numbers are back to "normal", which is about 5000 breeding pairs. All sections of the bridge are now available for bird use, since ODOT has removed scaffolding and other equipment associated with bridge maintenance. ODOT is getting serious about moving DCCOs from the bridge since the guano is corrosive to the metal. WASHDOT is looped into the discussion. There is a four day meeting scheduled to discuss the bridge issue.
- 3.7.6.8. Lawonn did an analysis of DCCO on the Troutdale Towers in 2022. DCCOs predation from inland sites was higher than from the bridge. Non-lethal measures have to be tried prior to lethal measures. Prior to pushing birds from the bridge, everyone needs to be prepared to dissuade birds from undesirable areas upriver. From the chat – Josh Ashline - BPA is working on plans for non-lethal deterrent installation at the Troutdale Towers. This will occur after The Dalles towers. Major issue at Troutdale is the mixed ownership of the towers.

### 3.8. Pinniped update.

- 3.8.1. BON. van der Leeuw reported peak numbers of 51 Stellars and 21 CA. Counts dropped to 6 Stellars and 9 CA. Monitoring predation – appear lower than usual. States are conducting removal efforts.
  - 3.8.1.1. Dam based hazing. Conder asked about USDA dam-based hazing. First monthly reports have been sent and will be posted to the FPOM website. Conder said he would like to talk about the staffing for USDA. He was told USDA has only one hazer at BON and one could only cover one entrance. Conder asked if we are paying USDA for multiple hazers but they are providing only one. Also, the hazer Conder talked to had concerns about the switch from long range ammo to short range ammo. Gallion said the monthly APHIS reports just came out this morning, and details the days, ammo, and hours of hazing. Borchert (USDA) said they are extremely short staffed, they need about 20 additional hazers to effectively cover all of their commitments in the basin. Kooi (USDA) said the on-boarding process includes a 30-day waiting period and in the meantime, everyone already working is also working OT to try to cover the coverage until the new hires can be on-site. Wertheimer asked about management actions taken by the States/Tribes. If the animals were removed, then the Corps wouldn't need to fund the hazing. **ACTION: Morrill will seek a**



written update from WDFW's marine mammal folks. There have been removals from BON, as of 1 May there were 10 animals removed.

3.8.2. Willamette Falls. 2CA and 3 Stellars observed. No luck trapping at that site yet.

### 3.9. Lamprey update

3.9.1. BON. No major issues. Lamprey have started to arrive.

3.9.2. TDA. No major updates.

3.9.3. JDA. Wrapping up JDA-N lamprey passage project. Hope to commission in the next week or two. Still waiting to award the elevator contract mod for elevator #4.

3.9.4. NWW. No update to the cooking water screen spreadsheet yet. Juvenile lamprey study – tagging going well.

3.9.5. LAWG. Macdonald asked about fyke nets in the LPSs. Derugin said everything is set up as it should be. Lampman asked about the prevention of fallback. Derugin said every area he can think of is covered. AFF and CI traps are not currently operating but CRITFC could add fyke nets to those when they come to operate them. Porter said the seasonal fish techs have been hired and the Bonneville Hatchery CBB will be watered up next week. She will meet with TDA and JDA soon.

3.10. BPA Update. Schedule available on the FPOM website. There is a BON PH2 outage in July that has Bettin concerned. Derugin was unaware and will get more information. FPOM needs more information as there were concerns about timing and reason.

### 3.11. Budget Updates.

3.11.1. NWP/NWW Critical Fish Passage O&M needs. No updated ranking.

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

### 4.1. NWW

4.1.1.23LWG04 MOC LWG LMN Stilling basin sediment removal. Investigating the inclusion of in-water disposal under BiOp coordination. Conder noted that the end of the project appears to be the end of February. He said he would prefer, if it is a tight schedule, to start earlier to avoid impact to the overshoot study. Peery will ask about starting 1 December instead of 15 December.

4.1.2.23LGS06 MOC Stilling basin sediment removal. No additional comments.

4.1.3.23LMN03 MFR Spillbay 8 OOS. No additional comments.

4.1.4.23IHR04 MOC Unit 3 commissioning. No additional comments.

4.1.5.23MCN02 though 04 MFR Spillbay 16 closure and dogging mechanism. No additional comments.

4.1.6.23MCN05 MFR Spillbay cranes 6 and 7. No additional comments.

### 4.2. NWP

4.2.1.23JDA15 MFR Spill gate 6 in manual. No additional comments.

4.2.2.23JDA14 MFR PDS CH mort. No additional comments.

4.2.3.23JDA13 MFR Spillbay 12 OOS. No additional comments.

4.2.4.23JDA12 MFR Spill and MU5 testing. No additional comments.

4.2.5.23BON018 MOC Wetted Wall Camera Install. Conder asked about figuring out how to add a trap to the wetted wall. Derugin said he is hoping to turn it into a trap. Macdonald said the camera is a back up to the optical counter. Madson reported the camera has been installed and the wall will be watered up next week.

4.2.6.23BON017 MFR Wetted Wall Optical Sensor Install. No additional comments.

4.2.7.23BON016 MFR PH2 F1 OOS. No additional comments.

## 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. NEW Change Forms:

**5.2.1.** 23MCN003 – Summer Spill Patterns with 6 Auto Bays (Peery)

**5.2.2.** 23AppL002 – Pinniped Monitoring (van der Leeuw and Madson). Approved.

**5.3.** Invasive species removal language

**6. Task Group Updates. No current Task Groups that require updates.**

**7. Other business.**