

Subject: Final minutes for the 08 June 2023 FPOM meeting. The meeting was held via WebEx from 0900 until 1130.

In Attendance:

Last	First	Agency	Phone	Email
Barnes	Chuck	NWW		Charles.a.barnes@usace.army.mil
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Urmston	Jenn	USFWS		
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1. Final actions or decisions.

- 1.1. May meeting minutes approved with an edit from Morrill.

2. Action Items

2.1. NWW

- 2.1.1. [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.
- 2.1.2. [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.
- 2.1.3. [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.
- 2.1.4. [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*
- 2.1.5. [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.*

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.
 - 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.
 - 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.
 - 2.2.4.[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.*
 - 2.2.5.[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*
 - 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. There is a new MOC related to screen removal, otherwise 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.
 - 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.
 - 3.1.1.4.23IHR04 Unit 3 Commissioning. Delayed by about 2-3 weeks due to issues found.
- 3.1.2.MCN crane status. Cranes 6 and 7 are operational but cannot be operated remotely from the Control Room. No changes. NWW continues to push for funding and scheduling. Need two cranes to adjust spillbays so these cranes are a high priority.
- 3.1.3.LWG tailwater monitors/LGS pool levels. More to come.
- 3.1.4.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 in the analysis. Peery said he can try to add that information. He clarified that the change in start date is from 1 April to 24 March. Morrill said the data supports the 24th but the PIT tag data seemed to support the 15th as well. Ebel will write up a justification for the earlier start date. Van Dyke reminded Peery that this is a restorative operation meant to re-

include the tails of the run and not just the peak of the bell curve. Conder asked about the exclusion of IHR not starting on the 24th. Peery said NWW is supportive of IHR starting on the 24th as well. Conder said NOAA is supportive of further discussions.

3.1.5. Fish Transport program. Stopping barge transport on the 19th. Truck transport would begin 1 August. To be discussed more at TMT.

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. Work may not begin for many years.

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.

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. Schedule has moved to the fall. Lorz asked if the crane rail has to be completed prior to the tunction pin. Cordie clarified that this is the powerhouse crane and not the spillway.

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 3 Gearbox contract should be awarded this week.

3.2.2. BON Aqui-S. Public comment period in the spring, permit issued after. Lorz has no concerns as long as research access is not impacted.

3.2.3. 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.**

3.2.4. TDA Spillway. Bay 10 not yet outfitted with the Bay 9 ropes and drums, still the plan to complete this year. Seals require special tooling, so this is delayed. Van Dyke asked how this work will impact the ultimate RTS for bay 9. Cordie said there isn't a return date for bay 9 due to the scope of the work needed on Bay 9. Van Dyke said it is disappointing and it shouldn't take decades to fix bay 9. Cordie said those sentiments have been shared up the chain of command and funding has been sought.

3.2.5. TDA BRZ and the fishing boundary. Cordie asked Morrill if there has been any movement by WDFW to address the issues. Morrill asked if Cordie suggests moving the fishing boundary line. Cordie said that would be his recommendation. Morrill suggests bringing it back to the group that addressed it last year. The current concern is not a safety concern for humans, but it is a concern for fish exiting the fish ladder with limited space to re-orient and have a chance to avoid anglers. Morrill said if enforcement is supportive of the change, this could be easier than if they are not supportive. Cordie said enforcement spent time trying to figure out the line and watch anglers cross it. The main concern is that the line is not entirely clear, and anglers are coming within 100' of the fishway exit. **ACTION: Morrill suggests a memo outlining the recommendation for a line straight across. Morrill and Cordie will work on this.** This would be easier for everyone to understand and easier to enforce. Van Dyke asked why the BRZ couldn't be moved. Cordie said the BRZ allows for navigation and moving that line must be approved by folks in D.C. van Dyke pointed out that the states do

not always enforce the same laws. Morrill pointed out that TDA-E is in WA but making the line across the river will require coordination with ODFW.

3.2.6. Wasco PUD smolt condition monitoring. Weekly reports are posted to the FPOM website.

3.2.7. JDA north pump #4. Budget request has been submitted. No funding received yet.

3.2.8. JDA spillway. Grosvenor said spillgate 12 is OOS. Spillgate 10 has remained in manual operation for a number of years. Spillgate 12 is looking to be in a similar condition. JDA maintenance has concerns about the amount of movement needed with the new spill targets. This equipment is old, original equipment and finding parts has been challenging. JDA electricians are trying to work on this issue however, funding is a limiting factor. More to come with the presentation in September.

3.3. NWS updates. No updates.

3.4. Research/FFDRWG

3.4.1. SRWG. Macdonald reported that a supplemental ranking meeting occurred last week for the flex spill research summary. Notes should be out soon. Intent to solicit should be out to the Region soon. Macdonald tried to bribe reviewers with a beverage if they got comments in early, but so far no one has required him to pay up. Van Dyke said he has no comments on the notes.

3.4.2. NWP FFDRWG. In-person meeting held on 1 June. WS control section team presented their DDR and the group viewed the section. Next FFDRWG will be combined with NWW next month. FPOM is a shining example of comradery and effectiveness; FFDRWG wants to be like that too.

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

3.4.2.2. BON ITS PIT detection.

3.4.2.3. BON B2FGE - Construction in Unit 17. Unit 14, 13, 12 next.

3.4.3. NWW FFDRWG. Will be combined with NWP for the July meeting.

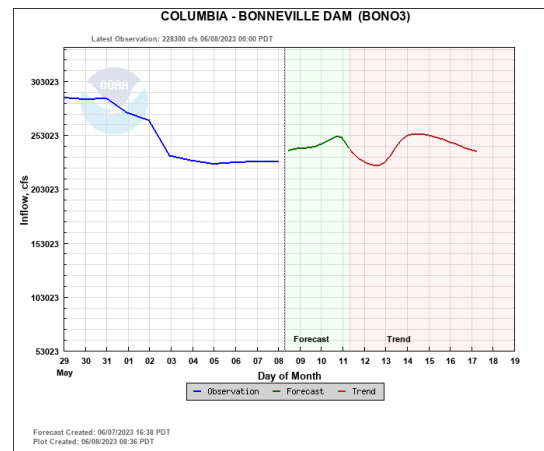
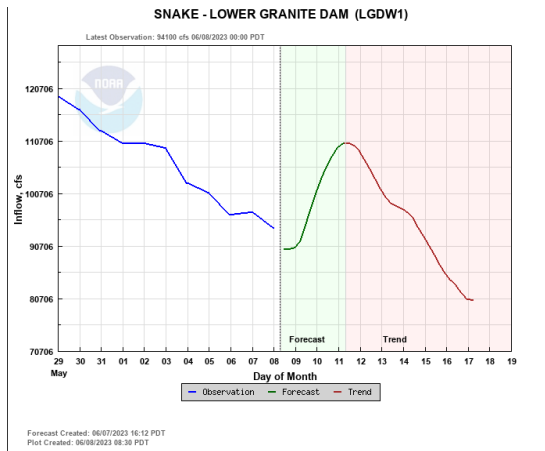
3.5. RCC update.

Table 1. RCC FPOM flow forecast.

Project	Previous Day (6/7) Average Outflow (kcfs)	5 Day (6/12) Forecasted Inflow (kcfs)	10 Day (6/17) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	94	107	80	80 (6/17) / 110 (6/11)
MCN	221	212	224	211 (6/12) / 241 (6/14)
BON	232	226	238	225 (6/12) / 254 (6/14)

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

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



3.6. Fish Count Program (Peery, Wertheimer). In the summer run of Chinook. Seeing sockeye (first one at IHR on 7 June) and many, many shad.

3.6.1. New solicitation due out this month.

3.6.2. Morrill said to keep an eye on forebay temps since the weather is anticipated to warm. Peery said NWW is tracking and will be ready to start the pumps at the fishways. Morrill said his biggest concern is the MCN Washington Shore.

3.7. Avian updates (10:30).

3.7.1. NWW. Bird numbers have been low. Few gulls and terns at most locations. 11 gulls, 8-32 pelicans at IHR.

3.7.2. NWP Avian EA/NEPA (Environmental Branch). Email from Amy Gibbons - The Avian EA is with OC for final review and the FONSI will be signed this month. We will also submit a draft depredation permit application this week to USFWS.

3.7.3. JDA. 100 pelicans in the tailrace and islands. 20-50 actively feeding gulls. 20 grebes in the forebay. Lawonn asked about the number of pelicans and if that is high or low. Grosvenor said they typically see 500 so this is a low number. Lawonn asked if the pelicans would be hazed once the EA is signed. Grosvenor said the intent is to haze the pelicans off the island.

3.7.4. TDA. Not as many pelicans as last year, about 25-30 downstream of the spillwall. Gulls numbers were climbing but have started dropping off to about 50 – 100. Cormorants are still around the fishway entrances and about 30 nests on the towers.

3.7.4.1. Miller Rocks

3.7.5. BON. Email from Derugin - Bird counts average- Bump up in late May (80), then dropped (6), now back to ~(30)

3.7.6. Estuary. Strong reported out from the estuary.

3.7.6.1. ESI – uptick in bird activity, about 2800 on colony beaches and on colony. Dropped to about 200 total, which coincided with the presence of otters and kayakers. Birds did gestate and currently there are over 1000 CATE on the island, along with evidence of predator activity. Van Dyke asked for confirmation of the otter sighting. Strong said they saw a large river otter. They also saw a dead deer carcass that washed up. Van Dyke asked if the otter sighting was shared with anyone else. Strong said it was reported internally and here, at FPOM. They found about 113 sites with both ring-billed gull and CATE carcasses in areas that are not commonly associated with avian predator kills but more with mammal kills. Van Dyke suggested including this information with other wildlife vets.

3.7.6.2. Rice Island – saw uptick when the decrease was seen at ESI. Pushing birds off the island. Went from 1000 to 27-400 on the island. Birds appear to be sick. 6-7 sick and 6-7 dead found each day. Saw 275 DCCOs on one day but not more than 10 each

day as of late. Lawonn asked about the sick birds. He noted there is a high degree of concern with the transmission of avian viruses this year. He asked about a description of diseased birds. Strong said he has mentioned he has seen sick birds but he doesn't know the cause. He has seen birds that are not quick to take flight or they may sit on the ground and not leave even as he approaches. He has noted they have difficulty holding their heads and appear to be trembling. Strong said he estimates 30-50 dead birds over the last month. These are just the morts viewed, there could be more that get washed away with the tide. Strong has reported this to USFWS via email. Lawonn said this is potentially a very big deal. The birds may be spreading the diseases between the islands. Lawonn asked for the team to tally the diseased and dead birds. He said these numbers are critical to the regional management of the bird populations. He will talk with the ODFW bird health experts. Lawonn said he hasn't heard of avian flu in CATE on the west coast but the Great Lakes saw a large loss due to avian flu last year. Strong cautioned that the counts are just day point counts and could be a repeat from the previous day. They are not tagging or moving birds. No sign of sick gulls. Ebel said to not rule out avian cholera. IDFG found avian cholera in birds and if that is what is affecting the birds in the estuary, the carcasses should be removed.

3.7.6.3. Miller Island – SHL survey resulted in also finding 95 pelicans on the mud flats and the underbrush packed with nesting pelicans. Aerial photos may not show them due to the brush. Guesstimate is about 800 pelicans. North channel pilings were a hotspot for DCCOs with 300-400 in the water. Only 87 were found earlier this week.

3.7.6.4. Pillar Island – No significant DCCOs found as of 11 May. No CATEs seen.

3.8. Pinniped update.

3.8.1. BON. Numbers bumped up to 70. Last pinniped was a CA on 19 May. Anticipated return is July/August. Bettin asked if 70 was a record. Conder asked about the pinnipeds above BON. van der Leeuw reported that a high of 76 was seen on one day this year. In 2015/16 saw 70+ on several days. The max was 120 on May 4th, 2016.

3.8.2. Willamette Falls. van Dyke said there hasn't been a lot of activity since late May. Trapping has ended for the year. 22 CA and 6 Stellers were removed.

3.9. Lamprey update

3.9.1. BON. No update.

3.9.2. TDA. No update.

3.9.3. JDA. Vacuum breaker to the water supply arrived. Repair complete next week. Elevator contract has been awarded and the repair should be completed this year, but not in time for this season.

3.9.4. NWW. Juhnke will provide a report of the upcoming summer and fall releases of tagged fish for the juvenile lamprey telemetry evaluation in the Lower Snake River.

3.9.5. LAWG. Team did look around BON for additional trapping locations. CRITFC will present their plans at a future FPOM meeting. Site visit to LWG planned for 12 June to look at the juvenile lamprey study.

3.10. BPA Update. Schedule available on the FPOM website. Bettin said the full PH outage was moved to late July starting at 1100 for eight hours. He added the Doble testing to the spreadsheet as well.

3.11. Budget Updates.

3.11.1. NWP/NWW Critical Fish Passage O&M needs. No updated ranking. Peery said NWW may have some updates soon.

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

4.1. NWW

- 4.1.1.23LWG08 MOC Early ESBS Removal. Hesse sent some comments. Peery will update the MOC. The action is the same as last year but earlier than previous years. Van Dyke asked what progress was made last year. Peery said one phase was completed on T1 last year. The goal is to get the remaining phases done so T1 will be completed this year. T2 will be scheduled next. The work is scheduled for the fall/winter to minimize impacts. Van Dyke said it sounds like there will be impacts to fish passage for a while. Peery said T2 will take out units 5 and 6 instead of units 1-4 so the fish impacts should be minimal.
- 4.1.2.23LWG07 MFR Adult Trap Hoist OOS. No further comments.
- 4.1.3.23LWG06 MFR AWS Pump 2 OOS. No further comments.
- 4.1.4.23LWG04 MOC LWG LMN Stilling basin sediment removal. Work likely to be pushed out a year. Transformer work forces spill so can't work in the spillway stilling basin at the same time. LGS may also be pushed out, more updates to come. 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.
- 4.1.5.23LGS08 MFR T1C Derating for Elevated Dissolved Gas Levels. Conder asked what may have changed to create this problem. Peery said sensors have been added after the T2 blew up. This could have been an issue in the past but there were no sensors measuring the gas levels. Conder asked if anyone is looking at the type of oil used. Peery said he wasn't aware of anyone looking at that. They are looking at the cooling systems to ensure they are adequate. There is a suspicion the insulation might be burning off. Van Dyke asked about the derating. Peery said the power generation was reduced to reduce the electricity going through the transformers to keep the temperatures lower. T2 is not showing elevated gases but this could be due to the reduced operation through that transformer. There is no unit operation change to U5 and U6 since T2 gas levels are within normal. Peery noted U5 is OOS. If elevated gas levels are seen, then those units would be derated as well. Morrill asked if LGS is the only project with the sensors. Peery said he isn't sure if the other projects have the sensors as well. Morrill said it may be a good idea to check since LGS didn't know they had a problem until the sensors were installed.
- 4.1.6.23LMN06 MFR juv morts from debris. LMN continues to see morts in the debris. A debris spill occurred on 7 June, an MFR will be coming. LGS debris is fine, the debris boom appears to be working well. The boom moves the debris to LMN effectively. Van Dyke asked if the 125K spill has increased debris. Peery said the debris is more related to flow than spill. The debris booms keep most of the debris away from the powerhouses and the JBS intakes. Van Dyke asked what has changed. Peery said the LMN debris has been a problem in the past. The LMN biologist has only been there a couple of years and is learning how to handle these issues in the future.
- 4.1.7.23MCN06 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.
- 4.2. NWP
- 4.2.1.23JDA23 MFR Tainter gate expansion joint inspection. No further comments.
- 4.2.2.23JDA22 MFR Tree pulled from SFL exit trashrack. No further comments.
- 4.2.3.23JDA19 - 21 MFR morts near spillbay 20. No further comments.
- 4.2.4.23JDA18 MFR MU12B orifice morts and repair. No further comments.
- 4.2.5.23JDA16 MFR spillgate 12 brake failure. No further comments.
- 4.2.6.23BON025 MFR AFF valve 15 PL mort. No further comments.
- 4.2.7.23BON024 MOC old navlock dredge placement. Swank said the impacts to the larval lamprey needs to be improved. Can the contract require the contractor check the dredge sediment? Mackey reminded FPOM to send questions and comments via email so they can be captured accurately, but the focus of this MOC is the in-water placement of the sediment.

Macdonald asked if Swank's concerns are more about disturbing larval lamprey at the dredging site or at the disposal site. Swank said both. He noted there are best management practices regarding dredging and monitoring of sediments. Van Dyke asked if the permits are completed. Macdonald and Mackey believe this is the start of the permit process. More comments coming CRITFC and Yakama Nation.

4.2.8.23BON023 MFR AFF valve 15 salmonid mort. No further comments.

4.2.9.23BON021 MFR T11 OOS. No further comments.

4.2.10.23BON19 MFR U11 and U12 hydraulic valve repair. No further 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/

5.2. Pending Change Forms:

5.2.1. 23MCN003 – Summer Spill Patterns with 6 Auto Bays (Peery). Van Dyke would like the TSW operation to be included in the evaluation. Peery said there is an effort to get the model repaired and available for use.

5.3. 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.

6. Task Group Updates. No Task Groups require updates.

7. August FPOM will be held at BON for the annual FPOM BBQ.