

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

In Attendance:

Last	First	Agency	Phone	Email
			360*57	
			503*95	
Gibbons	Amy	NWP-PME		amy.c.gibbons@usace.army.mil
Barnes	Chuck	NWW		Charles.a.barnes@usace.army.mil
Baus	Doug	NWP-RCC		Douglas.M.Baus@usace.army.mil
Bellerud	Blane	NOAA		Blane.bellerud@noaa.gov
Bettin	Scott	BPA	503*38	swbettin@bpa.gov
Braun	Mark	NWP-FFU		mark.w.braun@usace.army.mil
Burnet	Sarah	USACE		sarah.h.burnet@usace.army.mil
Conder	Trevor	NOAA		trevor.conder@noaa.gov
Cooper	Erin	FPC		ECooper@fpc.org
Cordie	Bob	NWP-TDA		Robert.P.Cordie@usace.army.mil
Day	Jim	NWP-TDA		Jim.E.Day@usace.army.mil
Derugin	Andrew	NWP-BON		Andrew.G.Derugin@usace.army.mil
Ebel	Jonathan	IDFG		jonathan.ebel@idfg.idaho.gov
Erickson	Michael	USACE		michael.erickson@usace.army.mil
Fielding	Scott	NWP-PME		Scott.D.Fielding@usace.army.mil
Flemmer	Jeanette	NWP-BON		Jeanette.C.Wendler@usace.army.mil
Gallion	Darren	NWP		Darren.g.gallion@usace.army.mil
Gibbons	Karrie	NWP-FFU		karrie.m.gibbons@usace.army.mil
Griffith	Denise	NWW		Denise.S.Griffith@usace.army.mil
Grosvenor	Eric	NWP-JDA		Eric.Grosvenor@usace.army.mil
Hausmann	Ben	BPA		bjhausmann@bpa.gov
Holdren	Elizabeth	NWP-LWG		elizabeth.a.holdren@usace.army.mil
Johnson	Bobby	NWW-MCN		bobbyjohnson@usace.army.mil
Juhnke	Steven	NWW		Steven.d.juhnke@usace.army.mil
Kooi	Kristopher	USDA	605*07	kristopher.l.kooi@usda.gov
Krasnow	Lynne	NOAA		Lynne.Krasnow@noaa.gov
Lampman	Ralph	CRITFC		lamr@yakamafish-nsn.gov
Lorz	Tom	CRITFC		lort@critfc.org
Lotspeich	Michael	NWP-JDA		Michael.D.Lotspeich@usace.army.mil
Mackey	Tammy	NWP		Tammy.m.mackey@usace.army.mil
Madson	Patricia	NWP-FFU		patricia.l.madson@usace.army.mil

Macdonald	Jacob	NWP-PME		Jacob.Macdonald@usace.army.mil
McDowell	Michelle	USFWS		Michelle_McDowell@fws.gov
Morrill	Charlie	WDFW	360*40	Charles.Morrill@dfw.wa.gov
Petersen	Christine	BPA		chpetersen@bpa.gov
Peery	Chris	NWW		Christopher.A.Peery@usace.army.mil
Porter	Laurie	CRITFC		porl@critfc.org
Rapp	Shawn	EAS		srapp@easbio.com
Sachs	Steven	NWP-FFU		Steven.A.sachs@usace.army.mil
Sechrist	Juddson	BOR CPN		jsechrist@usbr.gov
Sharp	Bill	Yakama Nation		Bill_sharp@yakama.com
Silver	Gregory	CRITFC		gsilver@critfc.org
Skiles	Tom	CRITFC		skit@critfc.org
Smith	Greg	BPA		gmsmith@bpa.gov
Smith	Terry	USDA		terry.l.smith@usda.gov
Strong	Noah	NWP-FFU		Noah.e.strong@usace.army.mil
Swank	Dave	USFWS		David_Swank@fws.gov
Swieca	Kelsey	NOAA		Kelsey.swieca@noaa.gov
Trachtenbarg	Dave	NWP-PME-F		david.a.trachtenbarg@usace.army.mil
Truscott	Kirk	Coville Tribes		kirk.truscott@colvilletribes.com
Van Dyke	Erick	ODFW		erick.s.vandyke@odfw.oregon.gov
Wertheimer	Bob	NWP-FFU		Robert.h.wertheimer@usace.army.mil
Wright	Lisa	NWD-RCC		Lisa.S.Wright@usace.army.mil

1. Final actions or decisions.

- 1.1. February and March meeting minutes approved.
- 1.2. Hazing Task Group to go inactive.
- 1.3. CRITFC is willing to allow in-person meetings.

2. Action Items

2.1. NWW

- 2.1.1. [APR 23] Fish Count SOW. **ACTION ITEM:** Peery will send the SOW. He has already sent the schedule and species.
- 2.1.2. [APR 23] 23MCN02 MFR Spillbay 16 closure and 23MCN001 FPP Change; cranes, hoists, and spillgate repairs. **ACTION ITEM:** Peery will provide regular updates to FPOM.
STATUS: these will remain in the Updates section of the agenda.

2.2. NWP

- 2.2.1. [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.
- 2.2.2. [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.

- 2.2.3.[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.
- 2.2.4.[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.
- 2.2.5.[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: Mackey still slowly working on this.*
- 2.3. **Completed Action Items or to be discussed later in the agenda.**
 - 2.3.1.[FEB 23] Avian reports. **ACTION:** Lawonn will send the DCCP Status Assessments to Mackey for posting. *STATUS: reports sent on 21 March. Posted to the Avian Task Group folder.*
 - 2.3.2.[MAR 23] TDA Falconry. **ACTION:** Cordie will share the falconry abatement plan with FPOM. *STATUS: 60 day falcon contract. Fill in USDA hazing coverage gaps as much as possible. Continue once daily bird count using designated zones (form attached and zone map can be found on status reports). USDA to supplement daily bird count. Attempt to use time lapse camera as additional count tool.*
 - 2.3.3.[MAR 23] BON TDG. **ACTION:** Mackey will get a MOC and the PNNL reports sent to FPOM for the TMT meeting on Wed next week. *STATUS: email sent on 13 March with PNNL reports.*
 - 2.3.4.[MAR 23] 23BON006 BON B-Branch erosion repair IWW extension. **ACTION:** Mackey will provide an update as soon as she gets more information from the PDT, later today or tomorrow. *STATUS: updated MOC sent on 13 March.*
 - 2.3.5.[MAR 23] MCN spill crane/TSW operation. **ACTION:** Peery will follow up and update FPOM when he finds out more. *STATUS: completed.*
 - 2.3.6.[MAR 23] MCN Hazing. **ACTION:** Lorz asked for the current USDA workplan. Peery will send the SOW to Lorz. *STATUS: completed.*

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.
- 3.1.2.MCN crane status. Cranes 6 and 7 are operational but cannot be operated remotely from the Control Room. So those two spillbays can only be changed during daylight hours when crews present. Due to flows and the pattern, spill started on schedule and only required the gates that could be remotely operated. Peery suggested an FPP change form that says the gates operated by cranes 6 and 7 will not be able to operate until daylight hours, when crews arrive. The cranes cannot operate because they are in an overloaded condition. Lorz expressed his frustration.
 - 3.1.2.1.Conversation moved to 23MCN02 MFR Spillbay 16 closure. Please see the write up under 4.1.3.
- 3.1.3.LWG tailwater monitors/LGS pool levels. Peery talked about how low tailwater levels impact FPP criteria. Entrance gates can only go so far, so the 8' criteria cannot be met when tailwater levels decrease. Low flows and high spill tends to push flow to the north side of the river. That seems to create a drawdown on the south side. Bellerud asked if some of the monitoring tools can be employed. Peery said there are established criteria that have been

used up to this point. Peery explained that the fishways were not designed to operate with the high spill during low flows.

- 3.1.3.1.**Ebel asked if there is evidence that adult passage is impacted when the tailrace gauge is reading 732.5' msl. Peery didn't believe they have that level of detail. Holdren said the inspections have three major components – velocity through the collection channel, velocity at the fishway entrance, and entrance opening. The north shore entrances were at 6.1' and 6.3' with a head differential of 1.7'. The south shore is on sill with a head diff of 0.8'. Conder said the differential is a result of the spill and not the tailwater elevation. Conder isn't convinced that raising the tailwater will solve that problem. Ebel asked for clarification that raising the forebay at LGS isn't helping LWG tailrace. Peery and Holdren said yes, that is true. Ebel asked a few more clarifying questions to figure out if this will make a difference to fish passage.
- 3.1.3.2.**Conder asked if the south shore entrances on sill is common due to the shallow nature of the project. Holdren said you can see the water being pulled away from the south shore, due to the spill pattern and volume. Peery jumped in to clarify that we are seeing the issues we are seeing due to high spill and low flows. Holdren agreed and suggested the impacts of low flows were muted under previous spill volumes. Conder said if the fishway entrance is on sill, the FPP entrance depth criteria may not be met but the project isn't violating the FPP because the criteria is to operate on sill and there is nothing further than can be done.
- 3.1.3.3.**Peery wrapped up by saying he just wanted to provide an update to how spill and tailwater are impacting fishway criteria and operation. van Dyke asked about AWS water. Holdren said pump 1 trips off during low tailwater elevations, but when it does operate, there is the maximum amount of flow getting added to the fishway entrance. Holdren also added that FOG configuration has also been adjusted in the past but currently operating with four open FOGs, due to FPOM recommendations. van Dyke said he appreciates Holdren's input but it also emphasizes the short-comings of the facilities. Peery reminded everyone that we are operating the projects differently than what they were designed for. Conder suggested further discussion about closing FOGs to help maximize potential head differential at the south entrances.
- 3.1.3.4.**Lorz wrapped up by thanking everyone for the discussion and asked about the anticipated date the Region might see a letter detailing the situation and a proposed path forward.

3.2. NWP Updates

- 3.2.1.**Upcoming coordinated maintenance/construction/research activities.
 - 3.2.1.1.**1BON001 MOC Navigation Lock 1 (old navlock) Bridge Replacement. (Trachtenbarg). Work does not conflict with FPP.
 - 3.2.1.2.**23BON002 ITS end gate replacement. No update at this time. Gate expected to arrive in May.
 - 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.**23BON006 updated B-Branch erosion repairs. Completed and avian lines were reinstalled before spill started.
 - 3.2.1.6.**23BON013 FG6-18 hatch. The hatch has been replaced and the fishway is back in FPP criteria.
 - 3.2.1.7.**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.

- 3.2.1.8.18JDA02 MOC Trash rack replacement. MU16 done. Next update – fall 2023. No update at this time.
- 3.2.1.9.20JDA04 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.
- 3.2.1.10.22JDA20 MFR JDA-S Temps. Still accepting comments. Plan is to collect data this season. Arrays are deployed in the ladders and will be deployed in the forbay this summer.
- 3.2.1.11.23JDA03-05 JDA-S fish turbine pumps 2 and 3 OOS. Floating orifice gate removal. Turbines are running at 55rpms. All FOGS are removed, just fishway entrances are open. Maintaining FPP criteria. Collection channel looks good. Velocities are about 2.5fps. Waiting on repair of gearbox #3, still need BPA match funding. Contractor has agreed to extend their quote. Total cost will be about \$500K.
- 3.2.2.BON Aqui-S. Public comment period in the spring, permit issued after.
- 3.2.3.BON U11 OOS. Came back last week.
- 3.2.4.TDA Spillway. Bay 10 not yet outfitted with the Bay 9 ropes and drums, still the plan to complete this year. Need new seals.
- 3.2.5.Wasco PUD smolt condition monitoring start date. Started 4 April. Sampling is going well with a surprising amount of fry.
- 3.2.6.JDA north pump #4. Budget request has been submitted. No further update.
- 3.3. NWS updates. No updates.
- 3.4. Research/FFDRWG
 - 3.4.1.SRWG. FGE study in the works. Big week next week. Responses to comments on research summaries will be sent on Monday. Wednesday is the CSS meeting in Vancouver. Thursday and Friday will be the ranking meeting.
 - 3.4.2.NWP FFDRWG. April meeting cancelled. Next meeting will be on 4 May. Swank asked if written updates were sent. 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.**
 - 3.4.2.1.TDA AWS debris management. No update.
 - 3.4.2.2.BON ITS PIT detection. The Region is looking at installing something at MCN instead of BON ITS, but more to come.
 - 3.4.3. NWW FFDRWG. Next meeting is schedule for 27 April. Barnes will get a draft agenda out next week.
- 3.5. RCC update.

Table 1. RCC FPOM flow forecast.

Project	Previous Day (3/8) Average Outflow (kcf)	5 Day (3/13) Forecasted Inflow (kcf)	10 Day (3/18) Forecasted Inflow (kcf)	Forecasted Inflow Low/High (kcf)
LWG	75	50	47	47 4/22 77 4/13
MCN	158	118	114	114 4/22 144 4/13
BON	171	133	128	128 4/22 173 4/13

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

- 3.6. Fish Count Program SOW (Peery, Wertheimer). Visual counts started in April for all locations. Need all comments by May since the RFP goes out in June.
 - 3.6.1.Peery said the contractor is working on QC before counts get posted. After counts are posted, the QA team will monitor data and address any anomalies. If CORs believe errors were made, hours will be recounted. Data corrections are posted once a month. In addition, the fish count supervisor recounts an hour for each counter, each month. This has helped pinpoint

the accuracy of the counters, the downside is that there is a month delay in getting those correction. Peery and Wertheimer are working on finding a quicker way to get those corrections made. Wertheimer reiterated the QC procedures. Lorz said he was concerned because of an incident at Wanapam where the counts were taped over and corrections could not be made. He would like to make sure sockeye counts can be verified and that counts are kept long enough to ensure corrections can be made, even if noticed a little later. Peery said the video has about four weeks before it starts over-writing and he will make sure that language is in the contract. van Dyke asked if the SOW has been sent to FPOM, he hasn't had a chance to look at it yet. **ACTION ITEM: Peery will send the SOW. He has already sent the schedule and species.** Peery said the quality control plan (QASP) plan will not be included as that is a document developed between the CORs and the contractor. Lorz asked if the QASP could be shared. Peery said he would check but the plan, in its entirety, could be proprietary information. Ebel suggested a summarized plan would be sufficient. Lorz asked for a general outline rather than the fine details. van Dyke asked if the plan wouldn't be public because it is what the Corps expects from the contractor. Peery said the SOW doesn't include that detail since the QASP is developed after selection.

3.6.2. Everything seems to be on schedule and running smoothly so far.

3.7. Avian updates (10:30).

3.7.1.NWW. A few gulls and some cormorants roosting on outfall pipe at McNary, but relatively low numbers of birds. Flows are picking up a little as are juvenile fish numbers, this has led to an increase in birds. Hazing is underway.

3.7.1.1.LGS would like to know who to talk to about a nesting peregrine falcon on one of the cranes. McDowell said a nest box can be installed as long as LGS has the authority to install it. If a nest needs to be taken, contact USFWS immediately. McDowell suggested disturbing the nest before nesting occurs. The concern is the need to use the crane while the nest is in use. Barnes said last year the project just didn't use the crane while nest was in use, and then removed the nest.

3.7.2.NWP Avian EA/NEPA (Environmental Branch). Within the public notice there is a link to the actual document that is within the digital library. The comment period is through the end of the April. NWP will be meeting with APHIS and USFWS this Thursday to talk over some additional comments they have on the action. NWP will be working on addressing any comments and to get the Final EA and FONSI completed as soon as possible after the closing of the comment period. The unknown is how many comments come in. That will impact how long it will take to address those comments in the final EA.

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

3.7.2.1.A. Gibbons explained that the comment period will close on 30 April. The EA will be used for USDA and USFWS to write their own FONSI. APHIS (USDA) has a 30-day public comment period that must be published in the Federal Register. USFWS will draft the depredation permit. Once both of those are completed, NWP can move forward with adjusting the hazing program to incorporate lethal take. Gibbons acknowledged that there is significant risk to getting lethal take in-place in 2023. Sharp asked when the soonest date might be for lethal take to be implemented at JDA and TDA. Gibbons said she isn't comfortable giving a date at this time due to the timelines the other agencies are also working under.

3.7.3.JDA. 12-20 gulls, a few pelicans are visiting the islands, and a handful of cormorants are present. Hazing starts on 16 April. Still waiting on contracting to move forward with the ten lines at the powerhouse. Preacher's Island has been seeded with 50 PIT tags. While there, the team counted 25 Great Blue Heron nests. Morrill asked about the delay in the avian line replacement. Grosvenor said the CT office is under-staffed and avian lines were a lower

priority when compared to the fish turbines and some other critical items. In the meantime, JDA is working on the sole source justification. After issuing a NTP, the actual work will only take about a week and will not impact spill. Grosvenor expects to see the NTP later this summer. JDA will monitor the situation and adjust hazing as needed.

3.7.4.TDA. Cordie said there are some gulls trickling in with the start of spill. Due to low spill volume, the gulls are able to get under the lines. USDA starts boat hazing on 16 April. Falconry began about 12 days ago. They are focusing on the cormorants on the towers. Between bios and falcons, the cormorants are staying away pretty well. Falconers cost about \$1K/day. Cordie said there needs to be a plan for how to address pelicans this year. WDFW downgrading from threatened to sensitive is delayed. The expectation is that the commission will accept the down-listing but that formal acceptance hasn't happened yet. Cordie asked if pelicans can be handled if they are in the ladder. McDowell said pelicans are rolled into the EA. Currently NWP does not have a permit in place. USFWS said TDA will need to wait on capture and release because there is no NEPA coverage and no permit. **ACTION ITEM: Morrill said he believes WDFW would be ok with TDA hazing the birds that are in the ladder but he will confirm that and give Cordie a call.** Grosvenor asked that JDA be given that information as well. Cordie said the oil boom is in place so maybe that is enough of a deterrent to keep the birds from swimming in. Cordie asked about hazing pelicans if they are in places, other than the fishway. Morrill will add that to his discussion.

3.7.4.1. Cordie asked about hazing pelicans during the shad season. Morrill said WDFW would support hazing if salmonids are impacted but maybe not shad. Grosvenor had concerns about the impacts of the pelicans at the entrances. Lorz is also concerned about pelicans at the entrances when sockeye are passing. He doesn't know of any evidence that suggests pelicans are feasting on juvenile salmonids and suggests caution in hazing just for the sake of hazing. Wertheimer chimed in and said there is evidence that pelicans are feeding on fall chinook at Ringold, which impacts the Corps' ability to meet mitigation fish production. Lorz asked if pelicans are seen in shallow water at release sites. McDowell asked everyone to take a look at the draft EA and double-check the locations outlined in the document. This is only for the three NWP hydro projects. This does not include Ringold, the estuary, or anything outside Corps facilities. Those areas are covered under separate documents. USFWS responded to Sharp that YN has the ability to haze because it does not need a federal permit, however, the Corps needs NEPA coverage and that is why NWP must wait until the EA and FONSI are complete.

3.7.4.2. From the chat –

3.7.4.2.1. from Jacob Macdonald to everyone: 11:13 AM APHIS has the NEPA coverage for "bird damage management in Washington", right Michelle?

3.7.4.2.2. from Lynne Krasnow to everyone: 11:15 AM Charlie, I think the Q re. hazing pelicans at TD and JD was esp. focused on the ladders - less a general Q about pelicans in the spillway, for example, because they may actually be eating shad.

3.7.4.2.3. from Kristopher Kooi to everyone: 11:16 AM I've been waiting to see if my superiors were on the call, but they may have had prior engagements. I've been informed that USDA has the required NEPA documents and we have the green light to haze American White Pelicans at JD and TD.

3.7.5.BON. Flemmer reported that bird numbers are picking up to about 20-30 gulls. Avian lines are installed and everything looks good.

3.7.6.Estuary. Fencing, flagging, blinds, and PIT tags are completed at ESI. Strong reported that surveys are starting on Rice, Miller, Pillar (RMP). There is an uptick in terns at Rice Island. The team is hazing to the limit of the authority. 30 terns were seen on Pillar Island. Some cormorants have been seen as well. The laser is installed on Rice to haze terns. 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 ask and respond back.** The dredge BiOp allows for hazing of piscivorous birds.

3.7.6.1.Lorz asked about cormorants on the bridge and ESI. Strong said no DCCOs on ESI but they are on the bridge. Tom Skiles is leaving CRITFC for the Klamath Basin water master. Lorz will be the bird brain for CRITFC.

3.7.6.2.van Dyke asked for clarification that the estuary and dam BiOps do not cross boundaries. Krasnow clarified that the dredge BiOp applies to RMP. The point of confusion is the Miller Sands v Miller Rocks. Miller Sands is in the estuary and Miller Rocks is in the TDA pool.

3.8. Pinniped update

3.8.1.BON. 20 animal trigger was hit on 3 April. All catches have been at PH2. There have not been many animals hauled out on the traps. No females have been seen. Lorz asked if the B-Branch erosion repair might have made the animals skittish? Wertheimer said that is plausible but it is also likely that the animals are skittish about being trapped. Dam based hazing is underway. Conder expressed hope that the hazers are targeting the naïve animals and establishing that BON is not a hospitable area.

3.8.1.1.Derugin reported that CRITFC is hazing via boats in the BRZ, starting today. There are also two animals upstream of BON.

3.8.2.Willamette Falls. van Dyke reported no significant activity since last month.

3.9. Lamprey update

3.9.1.BON. Derugin reported the LPSs are up and running. Madson reported that the optical sensors are completed at CI, BI, and WS LPS exits. The BI wetted wall optical sensor will be installed next week. Swank asked about how the counts would be tied into the larger count program. Once the new contract is in place, the lamprey counts will be incorporated into the larger count program. The new contract will start March 2024.

3.9.2.TDA. Nothing new.

3.9.3.JDA. Grosvenor reported that the JDA-N LPS water supply will be mostly completed this weekend. Elevator #4 repairs are contracted, but there are issues with the equipment and availability of parts. It is expected that the elevator likely won't return to service until the end of August. The SMF is collecting a few juvenile lamprey in the condition sample. 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.**

3.9.4.NWW. Peery will send the strainer sheet for posting.

3.9.5.LAWG. Two new LPS are in the works. Meeting is this month.

3.10.BPA Update. Schedule available on the FPOM website.

3.11.Budget Updates.

3.11.1.NWP/NWW Critical Fish Passage O&M needs. Ebel provided his ranking. van Dyke said critical infrastructure is important and he won't likely provide any rankings.

3.11.1.1.Conder and Lorz asked about the items that have been added or removed. TDA weirs 154 and 155 were completed this winter and have been removed. Mackey noted that the regional awareness of these items has helped highlight the items at the District level as well. She also noted that for NWP, Fisheries uses every avenue available to seek funding and elevate priority.

3.11.1.2.Swank asked for a meeting to discuss what each item is, the risk, and the outcome if it fails.

3.11.1.3.Ebel asked who vets what goes on the list. Peery said NWW doesn't have a vetting process. NWP adds items that have been submitted in the budget submissions and the critical infrastructure lists. Some items may be added between budget submission seasons, but for the most part, all items are requested in budgets.

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

4.1. NWW

4.1.1.23LGS02 MFR 530KV line loss. No additional comments.

4.1.2.23IHR03 MOC 115kV line 1 and 2 outage. Swank asked about the lack of a back-up generator. BPA will be able to support the same operation as they have been. No U6 operating at min. gen. Will just have U1 at speed no load. Rest of the river will be spilled.

4.1.3.23MCN02 MFR Spillbay 16 closure. Also, spillbay 16 is OOS for up to a month while dog cracks are repaired. Lorz suggested adding those to the spillway analysis. Peery said the spillgates will be evaluated as part of the rehab. The repair pit needs to be upgraded to accommodate work on the spill gates. Ebel asked how long the adjacent bays are closed for the inspection/replacement/repair. Peery said the adjacent gates are only closed for a day. Peery invited everyone to join NWW on 18 April to look at the spillway. Lorz said it sounds like this is a modification to a modified pattern and looking at the prototype doesn't provide the same level of detail as looking at the model. Peery said the ERDC model is in bad shape and would take a lot of time and funding to get it back in shape. Lorz said it may be worth it since MCN will be in a modified spill pattern for 8-10 years. Lorz suggested Fredricks would not be ok with the path forward. Morrill shared Lorz's concern, those a little less emphatically. WDFW believes looking at the model is essential, given the length of time and potential impacts of a modified spill pattern. Peery said this has been discussed with NWW leadership, but it sounds like the model will not be up before the end of spill season and costs \$200K so it isn't something that can readily happen in FY23. Lorz strongly encourages NWW to find the funding. Conder asked what would happen if spill started, or needed to be adjusted, on a weekend. Peery said crews would be brought in to make the changes. The auto gates are moving as needed. The two manual gates operated by cranes are adjusted during daylight hours and when crews are on-site/available. All gates with hoists can be adjusted remotely, by the operators, as needed. The fewer the changes the better as this will reduce wear and tear. MCN is currently at the level of risk they are comfortable with, which is a 40K threshold. Moving to 20K, as Conder asked about, would be too much. All of these issues are further reason to push for a model trip. The Region needs to understand how the different spill thresholds impact egress and tailrace conditions. Peery said he understands, but he is looking at the modified pattern next to the original pattern and the pattern isn't much different on paper. NWW is trying to balance what can be done with the resources available and what needs to be done in the best interest of fish. Morrill asked if it would be possible to get some drone footage of the spill patterns. It won't be perfect but it will provide something for the Region to look at and evaluate. FPOM was sympathetic to the position Peery is in and they do not intend to "shoot the messenger". Lorz stressed that looking with a drone or in-person will give you surface flow patterns but the model will give you the currents under the surface and provide a more holistic view of what fish might encounter. **ACTION ITEM: Peery will provide regular updates to FPOM.**

4.1.3.1. In the chat - Swieca suggested drone and visual drogue drifters with a line set to desired depth to capture subsurface flow in the MCN tailrace.

4.1.4.23MCN01 MFR U14 ESBSs installed out of order. No additional comments.

4.1.5.LGS - The project will need to de-energize the powerhouse to remove a turbine shaft. 16 hours with U6 as speed no load. Conder wasn't too concerned. MOC will be sent to FPOM.

4.1.6.LGS – Bettin said the roof hatch was made bigger but the cover is being blown off in really high winds. Repairs are currently occurring. Outage will be 4-8 hours. Peery needs to get more details but it seems this is related to 4.1.5. MFR will be sent to FPOM.

4.1.7.LMN, LGS, and LWG have sediment removal plans. Shouldn't impact fish passage and is covered under the BiOp. Specific actions will be coordinated through FPOM. Swank said USFWS felt that actions covered were within a certain distance of the dam. Peery said the draft MOCs list the disposal sites. He said the MOCs should be ready for sharing soon. Lorz asked if the work would occur when the ladders are out for winter maintenance. Peery said

work is scheduled to start on 15 December at LMN. There will be a two-week period of overlap between dredging and fishway operation. The same type of overlap would occur at LGS. At LWG, there would be one ladder in operation while the work is occurring in February. Lorz stressed trying to schedule the dredging to occur while the ladders are OOS.

4.2. NWP – no additional comments on any memos.

4.2.1.23JDA11 MFR Spillbay 12 OOS

4.2.2.23JDA10 MFR South Fish Turbine 2 OOS

4.2.3.23JDA09 MFR STS oil leak in 12B

4.2.4.23JDA08 MFR STS oil leak in 10B

4.2.5.23JDA07 MFR JDA-N fish pump outage

4.2.6.23JDA06 MFR STS oil leak in 8A

4.2.7.23JDA05 MOC Floating Orifice Gate Removal.

4.2.8.23BON15 MFR CI entrance impacts for FG6-18 dive ops

4.2.9.23BON14 MFR B2CC SB1 and SB2 closure for avian line installation.

4.2.10.23BON013 MFR B2CC emergency closure

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. 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)

5.3. Invasive species removal language

6. Task Group Updates.

6.1. Task Group Hazing. [Documents / FPOM Avian Task Group \(crohms.org\)](#)

6.1.1. Can be removed for the time being.

7. Other business.

7.1. Do we want to meet in person again? CRITFC is willing to host.