

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 12 November 2020 FPOM meeting.

The meeting was held via teleconference. In attendance:

Last	First	Agency	Email
Ballinger	Dean	PSMFC	deanb@gorge.net
Barnes	Chuck	NWW-LMN	Charles.A.Barnes@usace.army.mil
Baus	Doug	NWD-RCC	Douglas.m.Baus@usace.army.mil
Bellerud	Blane	NOAA	Blane.Bellerud@noaa.gov
Bettin	Scott	BPA	swbettin@bpa.gov
Blades	Jarod	BOR	
Cooper	Erin	FPC	ecooper@fpc.org
Cordie	Robert	NWP-TDA	Robert.P.Cordie@usace.army.mil
Derugin	Andrew	NWP-BON	Andrew.G.Derugin@usace.army.mil
Ebel	Jonathan	IDFG	Jonathan.Ebel@idfg.idaho.gov
Fielding	Scott	NWP-JDA	Scott.D.Fielding@usace.army.mil
Gibbons	Karrie	NWP-FFU	Karrie.M.Gibbons@usace.army.mil
Graham	Jen	Warm Springs	jennifer.graham@ctwsbnr.org
Griffith	Denise	NWW-MCN	Denise.S.Griffith@usace.army.mil
Grosvenor	Eric	NWP-JDA	Eric.Grosvenor@usace.army.mil
Hockersmith	Eric	NWW	Eric.E.Hockersmith@usace.army.mil
Jackson	Aaron	Umatilla	aaronjackson@ctuir.org
Kovalchuk	Erin	NWP-ODT-F	Erin.H.Kovalchuk@usace.army.mil
Krasnow	Lynne	NOAA	lynne.krasnow@noaa.gov
Lampman	Ralph	Yakama	lamr@yakamafish-nsn.gov
Lorz	Tom	CRITFC	lorz@critfc.org
Mackey	Tammy	NWP	Tammy.m.mackey@usace.army.mil
Martin	Alan	PSMFC	
Martinson	Rick	PSMFC	Rickdm@gorge.net
McDowell	Michelle	USFWS	michelle_mcdowell@fwa.gov
Morrill	Charlie	WDFW	Charles.Morrill@dfw.wa.gov
Peery	Chris	NWW	Christopher.A.Peery@usace.army.mil
Peterson	Christine	BPA	chpetersen@bpa.gov
Porter	Laurie	CRITFC	porl@critfc.org
Rothwell	Eric	BOR	erothwell@usbr.gov
Sachs	Steven	NWP-FFU	Steven.A.Sachs@usace.army.mil
Scott	Shane	NWPA	shane@sscottandassociates.com
Sears	Sherri	Colville Tribe	Sheri.sears@colvilletribes.com
Setter	Ann	NWW	Ann.L.Setter@usace.army.mil
Silver	Greg	CRITFC	gsilver@critfc.org
Studebaker	Cindy	NWD	cynthia.a.studebaker@usace.army.mil

Sullivan	Leah	BPA	lssullivan@bpa.gov
Swank	David	USFWS	David_Swank@fws.gov
Thompson	Josie	NOAA	Josie.Thompson@noaa.gov
Warf	Don	PSMFC	dlwarf@psmfc.org
Wright	Lisa	NWD-RCC	Lisa.S.Wright@usace.army.mil

1. Final decisions or recommendations made at this meeting.

- 1.1. October meeting minutes were approved.
- 1.2. FPP change form: 20TDA010 – Dewater Below Tailwater was approved.

2. The following documents are provided or discussed at this meeting. All documents can be found at: <http://pweb.crohms.org/tmt/documents/FPOM/2010/>.

- 2.1. Agenda, Fish Passage O&M coordination team
- 2.2. FPOM outages schedule (NWW)
- 2.3. BPA Transmission Outages (BPA)
- 2.4. 2020 TDG Monitoring in the Transport Raceways Draft
- 2.5. Dewatering schedules (NWP/NWW)
- 2.6. Coordination Forms (MOC/MFR) (NWW/NWP)
- 2.7. FPP Change Forms (NWW/NWP)

3. Action Items

3.1. NWW

3.2. NWP

- 3.2.1. **[November 20] TDA East Exit Boundary** - ACTION: Morrill will review the WA regulation for next month.
- 3.2.2. **[November 20] BON Rock Prevention PDT ERDC Broadcast** - ACTION: Kovalchuk will make sure that the video links are posted.
- 3.2.3. **[November 20] Sea Lions** - ACTION: Gibbons will follow up with Tidwell for Morrill on the construction of traps and specifically, if there is a request for PSMFC support.
- 3.2.4. **[November 20] JDA SMP Condition Monitoring** - ACTION: A task group will be formed and Lorz will chair.
- 3.2.5. **[November 20] 20JDA14 MOC Line 1 outage** – ACTION: Fielding will follow up with Operations to confirm the 05 January end date for Bettin.
- 3.2.6. **[August 20] TDA Turbine Dewater Sturgeon SOP** - ACTION: Van Dyke and Morrill will discuss the proposed protocol with their respective sturgeon experts. Status: Van Dyke has reached out but there is a change in staffing in the sturgeon section. Pending. Status: Morrill has reached out to his coworkers but hasn't heard back. WDFW is currently short staffed. Van Dyke has reached out but there is a change in staffing in the sturgeon section. *Status: Morrill did propose a change form related to sturgeon to be discussed today but no change on this action item.*

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

- 3.3.1. **[September]20AppG003 – LWG Dewatering** - ACTION: Peery will make the changes “no later than 72hrs” and resend. *Status: Completed. No Comments were received.*
- 3.3.2. **[September 20] 20BON92 MFR AFF Chinook Morts-** ACTION: Lorz will find out how many fish were tagged on the day that three fish died. *Status: Completed. Kovalchuk sent the information to VanDyke. He confirmed that he received the information.*

3.3.3.[September 20] 20JDA003 – TSW Install Date - ACTION: Fielding will investigate the possibility of installing the TSW on a weekday and then closing it until the correct date. Status: Completed. The TSW cannot be closed once it is installed.

3.3.4.[September 20] BON Nav Lock debris bubbler - ACTION: Wertheimer will follow up with the hatchery on release times and locations. *Status: Completed. Hausmann asked for the locations and would like to be in communication with Traylor about the language.*
Update: Hausmann and Traylor have discussed the language for the contract via email.

4. Updates

4.1. NWW

4.1.1. Upcoming maintenance/construction/research activities.

4.1.1.1. FPOM outages schedule (Setter) – The spreadsheet has been updated. MCN-Crane 6 will not RTS until the end of December and fish pump #1 in Mid- January.

4.1.1.2. LWG PIT spill bay – Hockersmith gave an update on the off-season spill PIT detections. For adult Fall Chinook, six were detected in the bypass and 39 through the RSW; all but two were from Lyon’s Ferry hatchery. For adult Steelhead, 24 were detected in the bypass (12 of those were during spill days) and 64 through the spillway. Out of the spillway Steelhead, 30 have re-ascended and 8 of 34 that have not re-ascended are likely overshoots. For the bypass, there are 15 STHD fall backs that re-ascended and 9 that have not re-ascended but don’t appear to be overshoots. Appearance of overshoot is based on behavior or where they were tagged as juvenile. Ebel said that fish tagged at the trap will have a genetic component that can be used before making final determination on overshoots. Hockersmith agreed. For the fish detected in the spill way, 48 out of 64 steelhead were tagged at the trap and 18 out of 24 bypass fish were tagged at the trap.

4.1.1.3. Raceway TDG during 2020 Spring FOP – A draft report was sent out about a week ago. LWG was not monitored since there are no projects upstream that could affect it. LGS and LMN were monitored through the spring. Fish barges were supposed to be monitored but were not due to COVID restrictions. LGS had a maximum of 122% TDG in the forebay and 116% in the raceway. LMN had a maximum of 128% TDG in the forebay and 112% in the raceway. The amount of time spent above 110% at LGS was 60% and at LMN was 12%. Hockersmith had been expecting to get higher levels in the forebay at LGS and thinks it would be good to do the study again next year. Bettin asked about barge monitoring next year. Hockersmith said that Holdren will add some permanent meters in the barge this winter but it is not known who will analyze the data. Hockersmith is retiring in December and isn’t sure about the future structure of NWW.

4.2. NWP

4.2.1. Upcoming maintenance/construction/research activities.

4.2.1.1. 20BON69 MOC PH2 outage for electrical work – completed.

4.2.1.2. 15TDA08 MOC Transformer Installation – on schedule. The contractor is working on T1 currently.

4.2.1.3. 19TDA04 MOC Crane rail Replacement – on schedule.

4.2.1.4. 20TDA12 MOC F2 Outage Brush Repair – the work was completed within the work window. It is not known why the brush on F2 is wearing faster than expected. The brush will be replaced during the mid-season ROV outage as well as the winter maintenance. Lorz asked about the F1 brushes. F1 and F2 brushes will be replaced this winter. Knowing that the brushes are wearing faster, maintenance will increase the frequency that they are replaced. Bettin asked how long it takes to replace the brush. It took about 3 hours so it will not increase the ROV outage time.

4.2.1.5. 20TDA10 MOC PUD Smolt Bypass Extended Outage - no update

- 4.2.1.6. 18JDA02 MOC Trash rack replacement – Fielding is waiting on assignment for the PDT.
- 4.2.1.7. 20JDA04 MOC STS crane replacement – Fielding is waiting on assignment for the PDT.
- 4.2.1.8. 20JDA14 MOC Line 1 outage – BPA transmission work – On schedule to end 05 January. Bettin asked about a possible date change to the 15th but Fielding was not aware of any change. ACTION: Fielding will follow up with Operations to confirm the 05 January end date for Bettin.
- 4.2.2. BON ITS gate – The project is looking at opening the auto gates further to make up for the missing water from the broken gate. The project should have the operation figured out by spring. Lorz asked when the work will be completed since it is clearly not being done this winter. Derugin said that it is planned for next winter.
- 4.2.3. BON JMF wetland sinkholes and proposed repair- completed. The sinkhole was filled in and the repair appears to have worked. Lorz asked what the cause of the sink hole was. Derugin said the mystery hasn't been solved. Lorz said that this is a band aid then and not a full fix.
- 4.2.4. BON Cascade Island PIT – four antennas will be installed this winter during the in-water work period. The project is still waiting on the UFR to complete the COE portion of the work.
- 4.2.5. BON WA SH serpentine PIT antennas – the project is providing some minor crane support in Mid-January to swap out the antennas.
- 4.2.6. BON Rock Removal – the ROV is planned for 01 December. An MOC is required to shut off the attraction water for the ROV inspection and the construction work. Bettin asked about not replacing the bird wires. Lorz said no, he wants the wires back up. Derugin said that osprey have had issues with the wires. Lorz said they might have fewer birds at BON because the grid works. Lorz asked about the amount of rocks. Kovalchuk said it is not a huge amount. The removal work is expected to take a couple of days. Cordie asked if the osprey concerns are anecdotal or witnessed. Derugin said that he has not witnessed an osprey hit the wires but has had multiple reports. Cordie said that he has witnessed osprey sitting on wires. Lorz asked if there are streamers. Cordie said yes, there are streamers when the lines are installed but they only last a year or two. Morrill asked if the hits are fatal to the osprey. Derugin said yes, they can be fatal.
- 4.2.7. BON Rock Prevention PDT ERDC broadcast (9:45) – Since the broadcast was on Web-Ex and FPOM was on Web-Ex, it couldn't be shown. Morrill said that the videos can be viewed later. ACTION: Kovalchuk will make sure that the video links are posted. Lorz has some concerns about the communication in the FFDRWG forum. The notice on the ERDC video was last minute and during another forum.
- 4.2.8. BON AFF Aqui-S – Lorz is not prepared to talk about the issue and Whiteaker is not present. Lorz was aware of a meeting scheduled for next week with the Department of Ecology. Derugin did not receive anything new from CRITFC. Derugin sent a proposal to Mackey with an option to send the chemical laden water to a tank for dilution and release it from there. Derugin had reviewed some studies on Aqui-S disposal. The proposal is to dilute until the dilution is the same as the one used in the study, hold for 12 hours and then release to the valve 15 in the AFF. The mixture should be diluted to a level that is below detectable levels. Derugin stressed that this is a proposal and he is trying to get buy-in from NWD and EPA.
- 4.2.9. TDA AWS trash rack – The funding is in place for the PDT. The trash rack is now seated properly, and the AWS is functional.
- 4.2.10. TDA Sluiceway cover –As soon as the sluiceway is out of service, the contractor will install the cover. It will be completed within the work window.

- 4.2.11. TDA East Exit boundary – Cordie was waiting on Morrill to look at the regulations. Morrill said he is aware but was not able to follow up last month. **ACTION: Morrill will review the WA regulation for next month.**
- 4.2.12. TDA trunnion pin – no update. Morrill asked about 2021. Cordie said no, it is not on the list. Lorz asked if the work can be done with existing infrastructure. Cordie said that he thinks that it requires contracting a large crane. The focus on the spillway crane is that it is not reliable for maintenance and it is prioritized high. Morrill asked about a cost estimate. Cordie said he has heard \$1million but is not sure if it is accurate.
- 4.2.13. JDA north pumps – pump 4 is still waiting on parts and should be repaired this winter.
- 4.2.14. JDA spill bay 10 – the project is still investigating a solution for repair. The spill bay remains in manual.

4.3. NWS (Seattle) – no update

4.4. Winter Maintenance and Dewatering Schedules

- 4.4.1.NWW
- 4.4.2.JDA
- 4.4.3.TDA
- 4.4.4.BON

4.5. Research/FFDRWG updates.

<http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html>

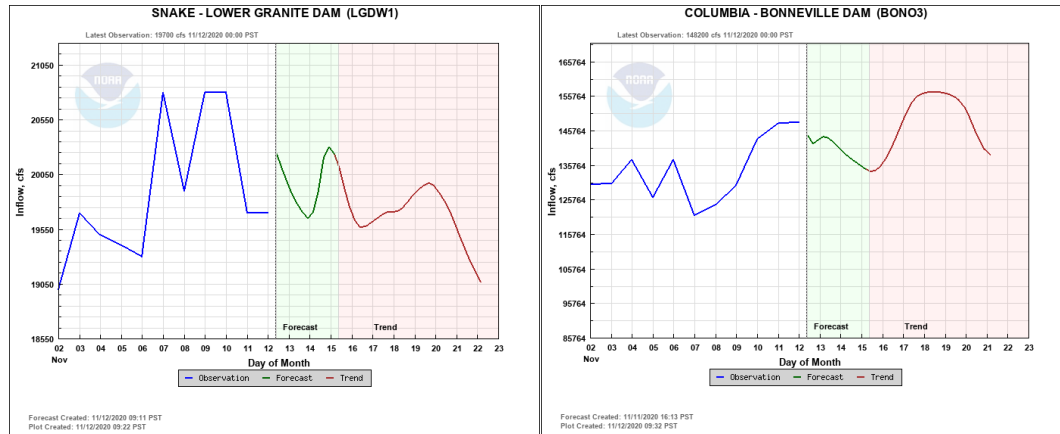
4.5.1.NWP FFDRWG- 03 December is the next meeting. The agenda includes lamprey, BON spillway rocks and status of the B2FGE contract. Lorz requested BON modeling and rock prevention be added to the agenda as well.

4.5.2.NWW FFDRWG – The next two meetings are scheduled for 27 January and 28 April.

4.6. RCC update

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	18	20	19	19 (11/21) / 20 (11/14)
MCN	144	129	128	122 (11/15) / 144 (11/18)
BON	148	138	139	133 (11/15) / 157 (11/18)

Table 1. RCC flow forecast



4.7. BPA update – The transmission outages have been posted to the website. Bettin gave a heads up that he will be writing some MOCs for long term outages coming up at JDA and MCN. The work will be like the MCN unit 1 and 2 outages. All units will have to go out of service for 45 days. Morrill asked about the repairs at BON PH2. Bettin said that the work went well and even ended early allowing time for a fix to the Hood River sewage plant.

4.8. Fish Count Program update (Peery, Wertheimer) – Counts stop at most locations at the end of October. BON and LWG has daytime counts through November. Ebel had informed Peery that he thought the Coho counts were low at LGS. After watching the QA video, Peery agreed and had a training about male/female Coho identification. This training will be integrated into the fish counter training and discussed at the end of season meeting. Ebel thanked Peery for reviewing it. The QA program currently has a lag on making corrections. Morrill asked if it is within the contract to make changes to the QA program. Peery thinks it is within the contract specifications already.

4.9. Pinniped update -

4.9.1. BON – FFU continues to monitor sea lions and observed more than 20 SSL daily this week. Last week's daily average was 33.5. Hazing stopped at the end of October. States removed 6 SSL this fall and are done with operations for the season. Morrill asked about the ongoing work to construct the SSL traps. He had heard that there was a request to have PSMFC provide staffing support. **ACTION: Gibbons will follow up with Tidwell for Morrill on the construction of traps and specifically if there is a request for PSMFC support.**

4.9.2. Willamette Falls – no update.

4.10. Lamprey update – LPS were taken out of service on 02 November. Currently, FFU is validating the video counts. The final will be reported in the annual report.

5. Avian updates (10:30)

5.1.1. NWW – MCN – typical gulls and cormorants for this time of year. Most NWW dams stop counting at the end of October. IHR – gulls, mergansers and pelicans. LGS – high numbers of gulls and cormorants. LWG – just a few gulls and cormorants. At IHR, the sprinkler has been out of operation all season but has now been repaired.

5.1.2. JDA – average 500 gulls per day in the powerhouse tailrace and a few cormorants around the project.

5.1.3. TDA - ~1K gulls on islands downstream of spillway. Pelicans have left.

5.1.4. BON – increase in cormorants and a few other birds but typical for this time of year.

5.1.5. Estuary – PIT recovery efforts are ongoing. Surveys off colony at ESI are complete and by next week, the colony counts should be complete as well. FFU is working with RTR and the

region to make sure that data requests are met. Morrill asked about pelican presence. Gibbons did not have an update on pelicans.

6. Invasive species discussion (Setter) awaiting response on shad disposal during sampling activity (Morrill, Van Dyke) – No update. It is unclear if this topic will move forward since Setter is retiring.

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

6.1 20MCN14 MOC Early emergency JCC bypass – No comments were received, and the work will move forward as planned.

6.3 20MCN15 MFR Fish pump 2 outage

6.3 20MCN16 MFR Fish pump 3 outage

6.4. 20MCN17 MOC T1-T7 Oil Leak Repair Project - sent out this week – comments are due on 24 November.

6.5. 20JDA20 MOC SMF Condition Monitoring – Mackey said that this MOC will not be discussed based on the FPC memo and the unknown future of JDA SMP sampling. Fielding asked for feedback on the MOC be sent via email. Lorz said that the MOC has implications for the tribes that collect juvenile lamprey at JDA and comments will be forthcoming. Lorz asked if the reduction in nighttime sampling is budgetary. Fielding said it is budgetary and fish holding. Lorz feels that the lack of nighttime sampling will greatly affect the tribe's ability to collect juvenile lamprey. Fielding said he would like to discuss this topic later with the tribes because he feels that there is data that shows less of an impact to lamprey. Lorz said that he and Fredricks had discussed this in the past.

ACTION: A task group will be formed and Lorz will chair. Ebel said that he needs to discuss the costs with Fielding. Porter said that she is opposed to the MOC as written and CRITFC is developing a proposal of their own. Mackey recommending discussing the proposal with Fielding. Porter will send in comments. Ebel asked if Porter will call into the meeting with FPC on 20 November. Porter said that she will be participating.

8. Fish Passage Plan: The final 2020 FPP went into effect March 1 and is available online at:

<http://pweb.crohms.org/tmt/documents/fpp/2020/>

8.1. Pending Change Forms:

8.1.1. 20IHR003 – Operating Gates Position (Anderson, Hockersmith). Discussed at several previous FPOM and FFDRWG meetings. WITHDRAWN. The PDT will work through the design and associated design reviews in FFDRWG. The PM is seeking funding to initiate the design process in December. After the design is finalized, a new Change Form will be submitted to add the operation to the FPP.

8.1.2. 20JDA003 – TSW Install Date (Kovalchuk). WITHDRAWN. The project will continue to schedule crews on overtime to install the TSWs in years that April 10 falls on a non-work day (Fri-Sun).

8.2. New Change Forms:

8.2.1. 20TDA010 – Dewater Below Tailwater (Cordie). This action was discussed and approved at the October FPOM. Cordie put this change form together to add to the FPP. CRITFC, WDFW and NOAA concurred with the change form. APPROVED.

8.2.2. Change form from Morrill: this is a request for coordination with the ODFW and WDFW representatives. It has been informally in the past but WDFW would like to make it formal. Morrill requested to delete the word “adult”. Bettin asked if the Corps is expected to separate the fish. Morrill said no, the staff does coordinate with the dam staff about the work details. Kovalchuk said that the dewatering schedules are posted. Morrill said that there have been opportunities missed because they have been notified after the fact. Cordie asked if it is just ladder dewatering or turbine dewatering. The turbine dewaterers are harder to coordinate due to the changing time. Morrill said both ladder and turbine. Morrill

requested folks take time to review the change form and be prepared to discuss at the December meeting. PENDING.

8.3. 2021 FPP Production Schedule and Deadlines.

- By no later than Friday, Dec 18, 2020 – submit draft FPP Change Forms and submissions for Appendix A “Special Ops & Studies” to Lisa Wright and relevant District POC (Erin Kovalchuk or Ann Setter).
- By no later than Thursday, Dec 31, 2020 – all draft project chapters, appendices, and change forms will be posted on the Draft 2021 FPP website to allow at least four weeks for review, online @ <http://pweb.crohms.org/tmt/documents/fpp/2021/changes/>.
- Thursday, Jan 28, 2020 – annual FPOM meeting to finalize FPP Change Forms.
- Friday, Feb 12, 2021 – FINAL DROP DEAD DUE DATE for all approved FPP Change Forms and final Appendix A submissions.
- By no later than Monday, Feb 22, 2021 – the Final 2021 FPP will be available for download online @ <http://pweb.crohms.org/tmt/documents/fpp/2021>
- Monday, March 1, 2021 – start date of 2021 FPP

8.4. Baus said that RCC received comments on the maintenance dates for Dworshak. The dates will be in the Appendix I and a change form from the COE will be coming. Ebel said that there is some flexibility in his comments after discussing with some coworkers and he will resubmit comments.

9. Task Group Updates.

9.1. Avian Task Group meeting – following this meeting at 11:15.