

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 10 September 2020 FPOM meeting.

The meeting was held via teleconference. In attendance:

Last	First	Agency	Email
Anderson	Karl	NWW	Karl.R.Anderson@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
Cousins	Katherine	NWS	Katherine.L.Cousins@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
Hausmann	Ben	NWP-BON	Ben.J.Hausmann@usace.army.mil
Hockersmith	Eric	NWW	Eric.E.Hockersmith@usace.army.mil
Johnson	Bobby	NWW-MCN	bobby.johnson@usace.army.mil
Kovalchuk	Erin	NWP-ODT-F	Erin.H.Kovalchuk@usace.army.mil
Krasnow	Lynne	NOAA	lynne.krasnow@noaa.gov
Lawonn	James	ODFW	matthew.j.lawonn@state.or.us
Lorz	Tom	CRITFC	lorz@critfc.org
MacDonald	Jake	NWP	Jacob.B.Macdonald@usace.army.mil
Mackey	Tammy	NWP	Tammy.m.mackey@usace.army.mil
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
Randall	Jeff	NWP	Jeffrey.W.Randall@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
Skiles	Tom	CRITFC	skit@critfc.org
Sullivan	Leah	BPA	lssullivan@bpa.gov
Swank	David	USFWS	David_Swank@fws.gov
Tessier	Rachel	FPC	-
Thompson	Josie	NOAA	Josie.Thompson@noaa.gov
Trachtenbarg	Dave	NWP	David.A.Trachtenbarg@usace.army.mil
Van Dyke	Erick	ODFW	erick.s.vandyke@state.or.us
Van Nice	Thomas	PSMFC	TVanNice@psmfc.org
Warf	Don	PSMFC	dlwarf@psmfc.org

1. **Final decisions or recommendations made at this meeting.**
 - 1.1. August minutes were approved.
 - 1.2. 20AppA002 – Fall 2020 Spill for Steelhead Overshoots - Baus added “as described in the 2020 NMFS Bi OP adaptive management will be a part of these actions in the future” to the FPP impacts. The study period was defined as starting on 14 September and the spill operation was defined as starting on 15 September. 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. Composite Cooling Water Strainers Lamprey Counts (NWW)
 - 2.4. BON Nav Lock debris bubbler videos
 - 2.5. Coordination Forms (MOC/MFR) (NWW/NWP)
 - 2.6. FPP Change Forms (NWW/NWP)
3. **Action Items**
 - 3.1. **NWW**
 - 3.1.1. **[September]** 20AppG003 – LWG Dewatering - ACTION: Peery will make the changes “no later than 72hrs” and resend.
 - 3.1.2. **[August]** 20LMN08 MOC Floating Guide Wall Repair- ACTION: Barnes will double check that no forebay restrictions are required for this work. *Status: Project staff are coordinating forebay restrictions if needed with RCC and BPA. Work is progressing on schedule. They are dredging to remove the debris around the anchor block. The work is expected to be complete by 16 September.*
 - 3.2. **NWP**
 - 3.2.1. **[September 20]** BON Nav Lock debris bubbler - ACTION: Wertheimer will follow up with the hatchery on release times and locations.
 - 3.2.2. **[September 20]** 20BON92 MFR AFF Chinook Morts- ACTION: Lorz will find out how many fish were tagged on the day that three fish died.
 - 3.2.3. **[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.
 - 3.2.4. **[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.*
 - 3.2.5. **[August 20]** BON ROV - ACTION: Hausmann will write an MOC on the ROV inspection options. *Status: Due to leave, BON did not have the staff to support an ROV. BON is looking into purchasing an ROV. Hausmann asked for feedback on conducting an inspection. Lorz suggested continuing without doing an ROV inspection.*
 - 3.3. **Completed Action Items or to be discussed later in the agenda**
 - 3.3.1. **[August 20]** JDA Post Warm Water Sampling Protocol - ACTION: Grosvenor will write an MOC on the sampling protocol. *Status: Complete.*
 - 3.3.2. **[July 20]** 18JDA02 MOC Trashrack replacement - ACTION: Royer will send the outage schedule to Bettin. *Status: Completed. They have been in communication.*
 - 3.3.3. **[May 20] and [July 20]** 20JDA05 MOC Spill bay 10 repair - Van Dyke asked which pattern would be used during that week. ACTION: Fielding will send more information about the proposed spill pattern during the outage. ACTION: Grosvenor will find out

which bays the flow went to and write in a spreadsheet. *Status: Completed. The pattern is in the meeting folder. Mackey requested that it also goes to the archived spill pattern.*

3.3.4. [July 20]20IHR003 - ACTION: Anderson will send out the historical reports and will look for the fall chinook FGE report that Conder referenced. Anderson sent these reports to FPOM July 10, 2020. *Status: Completed. Van Dyke said he didn't agree with some of the content, specifically the word "good" and doesn't believe that this issue is ready to move forward. Setter thinks that the decision may go to RIOG and recommends sending comments in writing for Anderson.*

3.3.5. [June 20] MCN TSW removal - ACTION: NWW will come up with a proposal based on sub yearling data and project capability for FPOM to review. Pending from last month. Hockersmith provided FPOM with a summary and analysis for summer migrant passage and survival with and without the TSWs operating, July 23, 2020. *Status: Completed. Hockersmith has not received any comments and thinks it can be removed from the agenda. Lorz needs more time. Conder said it is a technical study, but it doesn't have a recommendation. Hockersmith is giving the background information and if someone wants to propose a change form then they could use this information. There was nothing that stood out as a good change. Conder asked if there was any effect of the TSW on forebay/tailwater temperatures. Hockersmith did not investigate it but didn't think it was measurable because of the volume of the Columbia at MCN compared to the Snake. Conder thinks there should be an option to delay the TSW due to debris. Bellerud would like flexibility but understands that the project likes to plan the work. Setter said that there is flexibility, but they need two weeks to plan. She suggests talking to the project about a month in advance to set the appropriate date. If the date is cancelled, it might take a couple of weeks to get the work back on the schedule. Lorz asked about modifications for the hoists so it would be automated. Setter said that they are moving in that direction, but they are still short a couple of spill bays. They still need to rely on cranes for the time being and they are very old. They have hoists on 20 spill bays. Bellerud summed up the issue as the problem is not with the TSW but with the operations that support TSW removal. Setter agreed and added that there are personnel safety issues with the cranes. The project also needs to find the funds to finish the upgrades on the hoists. Critical maintenance is the highest priority for the project. Van Dyke asked how the flexibility is being impacted by contractor compared to the Corps direct work in the MCN spill weir automation efforts. Setter said that crane 6 is out of service and it is being addressed by the Corps. An outside contractor will do the crane inspection. COVID is also restricting the staff levels.*

4. Updates

4.1. NWW

4.1.1. Upcoming maintenance/construction/research activities.

4.1.1.1. FPOM outages schedule (Setter) – The only change is an extension for MCN fish pump 1 till the end of November.

4.1.1.2. Doble testing at night ongoing discussion – Setter is waiting on the agencies to come back with a proposal. HDC will come to the October FPOM to explain Doble testing.

4.1.1.3. LWG PIT spill bay – The contractor is finishing the warranty items. The leaking conduit was deemed not a warranty issue and PSMFC will address it. Lorz asked if the items can be completed in the IWWP. Hockersmith said he believes that it can. LWG is aware of the new Bi Op spill operation and is planning work around it.

4.2. NWP

4.2.1. Upcoming maintenance/construction/research activities.

- 4.2.1.1. 20BON69 MOC PH2 outage for electrical work – The outage was moved a week later in October. The project is still on track and Hausmann has been working on the contract for the LFS hatch.
- 4.2.1.2. 20BON81 MOC Hydro-survey for Rock Removal – The survey occurred on 01 September. The results are not in yet.
- 4.2.1.3. 15TDA08 MOC Transformer Installation – TDA ran a test on the fish units, trying to get 14.2 Megawatts in order to test a heat issue. There was heat and it is being investigated.
- 4.2.1.4. 19TDA04 MOC Crane rail Replacement – no change. The work starts 09 October.
- 4.2.1.5. 20TDA10 MOC PUD Smolt Bypass Extended Outage – next winter
- 4.2.1.6. 20TDA11 MOC MU6 Operation Outside the 1% - The test was completed and successful.
- 4.2.1.7. 18JDA02 MOC Trash rack replacement – Fielding is not sure where this project is at.
- 4.2.1.8. 20JDA04 MOC STS crane replacement – The work is scheduled for August 2021. The STS crane will be out of service for one month. The demolition of the intake crane is still ongoing.
- 4.2.1.9. 20JDA14 MOC Line 1 outage – BPA transmission work – The start date has been moved to 26 October from 05 October.
- 4.2.1.10. 20JDA10 MOC Line 1 Outage to install spacers – Complete. All spacers are now installed.
- 4.2.1.11. 20JDA11 MOC Line 3 outage to install spacers – Complete. All spacers are now installed.
- 4.2.1.12. 20JDA16 MOC Post Warm Water Sampling – The temperatures have remained high enough to stay in the warm water sampling protocol. Tuesday is the last sample day.
- 4.2.2.BON ITS gate – The PDT had a meeting yesterday to review the timeline. The PDT is proposing a longer timeline, but BON is pushing back. Hausmann will send out an update when he has one.
- 4.2.3.BON JMF wetland sinkholes and proposed repair – No update. BON is still working on the plan. There are options. It is a lower priority due to the back log of work from COVID.
- 4.2.4.BON Cascade Island PIT – Hausmann submitted the paperwork for Small Cap funding. The cost is a little over 100k. Once Hausmann has more information on the correct funding source, he will share it.
- 4.2.5.BON Nav lock debris bubbler – There is a substantial bubbler on the Nav Lock miter gates to prevent debris from getting behind the gates. A maintenance worker observed a school of fish being attracted to the bubbler. Project Fisheries was very concerned about the potential of problem. Derugin then saw fish released from the hatchery and concluded that the fish were present due to the release. Hausmann was communicating with the hatchery about notification. **ACTION: Wertheimer will follow up with the hatchery on release times and locations.** Mackey said that now is a good time to know if the project would like notification of releases and comment on release locations for the contract because they are renewing this year. Hausmann said that the location is good for release and the project has also used that spot. He would just like to be aware of when and where they are releasing.
- 4.2.6.TDA AWS trash rack – The trash rack was lifted and inspected. The TDA engineer has some potential remedies. The trash rack was re-seated into place.
- 4.2.7.TDA trunnion pin – no update.

4.2.8. JDA north pumps – Pump 4 is still unavailable. Several pumps tripped last week due to a greasing problem. Fielding has a meeting with the chief of maintenance to come up with a solution to the greasing problem.

4.2.9. JDA spill bay 10 – Still in manual. Fielding hopes that it will be addressed this winter. All spill bays are aging rapidly.

4.2.10. JDA SCADA – The work is almost complete. Electricians finished creating the alarms. The only work left is to build out the screens.

4.3. NWS (Seattle) – No personnel were injured or lost property in the fire near Chief Joe. Bettin asked about the hatchery. Cousins did not know if there was a damage. Chief Joe is stretched thin due to the fire and COVID. She has been instructed not to bother the hatchery while they are trying to recover. Update later in the meeting: the hatchery did not burn but she wasn't sure about the power situation. Sears confirmed that the hatchery is running on a generator because the area is without power.

4.4. Research/FFDRWG updates.

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

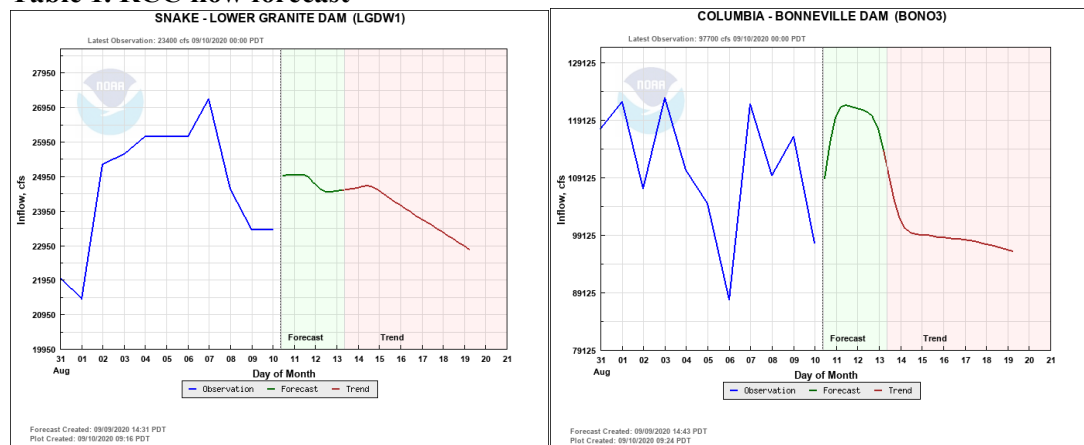
4.4.1. NWP FFDRWG – Next meeting is 01 October. Agenda topics include BON rock removal survey results and recommendations for removal, JDA turbine rehab 60% review, and LPS improvements. The 60% report was sent out to FFDRWG on 04 September.

4.4.2. NWW FFDRWG – Next meeting October 22, 2020.

4.5. RCC update

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	25	25	23	23 (9/19) / 25 (9/10)
MCN	97	94	90	90 (9/19) / 117 (9/10)
BON	101	100	96	96 (9/19) / 122 (9/11)

Table 1. RCC flow forecast



4.6. BPA update- The main change is the start date on the JDA line 1 work moving from 05 October to 26 October. JDA line 3 was repaired and is back in service.

4.7. Fish Count Program update (Peery, Wertheimer) – A couple of instances of delayed reporting due to fires. LMN had a fire right up to the project that has impacted the power and

phone lines. The counts are about a day late at LMN until the phone/power lines are fixed. Runs are good for Chinook and Coho. Steelhead are less than half the ten-year average.

4.8. Pinniped update

4.8.1.BON – 53 SSL were present this morning which is the highest this fall. Lorz asked about the SSL traps. The states will start trapping on Monday (14 September) for six weeks.

4.8.2.Willamette Falls – No update.

4.9. Lamprey update – All LPS are in service and validation is ongoing. All translocation activities are complete for the year.

5. Avian updates (10:30)

5.1.1.NWW – At MCN, there are 20-30 cormorants and 30-200 gulls. A new LRAD was tested. It has promise. The noise bothered the birds, but it is loud on the project. LRAD is like a laser beam of sound. At the other Snake River projects, there are gulls and cormorants but nothing in high numbers. Setter requested an update of the changes in lethal take for next month.

5.1.2.JDA – There has been a shift from pelicans to uptake in gulls and cormorants. Very few birds are present around the project. All the birds are hanging out at Preacher's Island.

5.1.3.TDA – Once spill ended, the pelicans took off. There are about 100-200 gulls and cormorants present on the islands below the spillway. Mergansers are now present also.

5.1.4.BON – Gulls and cormorant numbers are present but in low numbers.

5.1.5.Estuary – Demobilization started this week. Krasnow had shown the MOC to Steve Smith and he had provided some comments. She asked about the MOC procedures for providing these comments. Any comments need to be sent to Kovalchuk to be included in the MOC. Trachtenberg reminded the group that comments are due on the synthesis report. Anderson has not received comments from NOAA yet.

6. Invasive species discussion (Setter) awaiting response on shad disposal during sampling activity (Morrill, Van Dyke) – Still pending.

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

6.1 20LGS16 MOC Roof replacement – This MOC was discussed last month and followed up by multiple emails. The original proposal was to end by September/October. In order to minimize impact, the plan is to install bus line jumpers which is specialized work. It would take four days and it would require an entire powerhouse outage. With at least 30% spill, tailrace conditions can delay or block passage. Conder asked (via email) for night work or double shift to shorten the four days. Peery said it is not possible because of how specialized and dangerous the work is. The other option is another time of year. It is possible but once the jumpers are in place then half the powerhouse will be off during the work. Another time of year would most likely have higher flows and spill. If it is a normal or above water year, it might be weeks of higher spill. The project could also run above 1% with all four units running. The work should be done in the summer because of the weather. Materials need to cure so they need a long enough time before winter or cooler weather. There are two layers of roof due to a previous repair. Building codes now require the old roof to be removed. Peery confirmed that using jumpers go from 5 to 4 units. Units 4, 5 and 6 can go up to 18Kcfs within the 1% range and go to 25kcf above 1%. The construction contract is moving forward. The final date on comments for the jumpers work is not decided because they are still designing. Peery was thinking by the end of the month. The work schedule is determined by the contractor. Lorz would like four ten-hour days. The roof contractor is different than the welders installing the jumpers. The roof contractor cannot be told to work a specific schedule, but the welders would like to finish as soon as possible. Bettin said the question of spring or fall still must be determined. Bellerud recommended waiting for Conder since he has been very involved in the process. At the end of the outage, the same outage will be required to

reconnect the lines. The reconnect date is flexible. Van Dyke asked how long the roof will last. The last one lasted 31 years but that had asbestos. Van Dyke has sent comments by email. The PDT reviewed all options ranging from doing nothing to updating the transmission lines. Van Dyke asked how many more roofs will be done. LWG has been completed but the others will need to be done as well. **Pending.**

- 7.1. 20LGS17 MOC – Line Outage to Return T2 for Unit 6. During Doble testing, they found a damaged neutral bushing. The outage will require the whole powerhouse outage. The fish pumps will be on the generator, but the cooling pumps will not have power. The outage has been pushed back to the 25 September. Now that the outage is delayed, the cooling pumps might already be off. The water is still above 64°. The units may not be necessary during that time frame. Lorz asked if the outage can wait until the cooling pumps are off for the year. Peery said he will check. **PENDING.**
- 7.2. 20LGS18 MFR – Accidental Bypass
- 7.3. 20IHR07 MFR – Malfunction of north fish ladder entrance weir gate and juvenile fish channel water regulating weirs
- 7.4. 20MCN08 MFR – Missed Sampling Southside Dewatering Valve Failure
- 7.5. 20MCN09 MFR – Missed Sampling Dewatering Screen Brush Issues
- 7.6. 20MCN10 MFR – Juvenile Sample Mortalities
- 7.7. 20MCN11 MFR – Emergency Debris Spill
- 7.8. 20MCN12 MFR – Missed Sampling
- 7.9. 20BON85-90 MFR – Conder had emailed a question asking if there were any change in protocols after the three tagged fish died. Whiteaker was asked to call into FPOM but was on vacation. Hausmann said that CRITFC is diligent about the high temperature protocol. Whiteaker had reported that a pump was running continuously and could have caused a couple degrees difference between tanks. Lorz had followed up with Whiteaker. The staff has been following the protocols exactly. On the day when the three tagged fish that died, there was a couple degree difference between tanks. CRITFC is going to try not using the pump. Van Dyke asked if the tagged fish were 100% of the sample. Lorz said it was not. Van Dyke asked if the dead fish were 100% of the tagged fish. Lorz doesn't know that information and will track down that information. **ACTION: Lorz will find out how many fish were tagged on the day that three fish died.**
- 7.10. 20JDA17 MFR MU5 STS Tear and FOOS
- 7.11. 20JDA18 MFR Chinook Mort at South Count station – Lorz asked if the nets are closed. Fielding looked at the nets and did not find anything.
- 7.12. 20JDA MFR North Fish Ladder Pumps
- 7.13. 20EST01 MOC ESI Collection of PIT tags at DCCO colonies (Lorz)– Lorz wants the areas where the DCCO were loafing on ESI scanned for PIT tags in addition to the tern colonies. The NOAA trawl was not in use this year due to COVID. Adding any possible data will help inform reach survival. This work would require FFU to add a couple more days on ESI. The work is typically done in October. MacDonald agrees that all the loafing areas should be scanned including the satellite colonies. He doesn't think that there will be many tags because even though there were many birds, they weren't there for long. The funding is unknown. Mackey isn't sure that it falls under O&M and will discuss with Eppard and Chane. MacDonald said that the region including Lorz didn't rank this survey high. Lorz said that he followed up with an email and recommended doing this in 2020. He had reviewed the data and realized that it was based on nesting detections. He thinks it is a minimal cost for valuable data. Lorz will ask BPA to scan areas near the Astoria-Megler bridge. He wants the most data that he can get. FFU is planning on going out to the estuary in October. **PENDING.**

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 July FPOM and FFDWRG, and August FPOM. Pending further discussion at FFDRWG (scheduled for Tuesday, 9/8).) – The regions questions were addressed at the special FFDRWG meeting. Norton sent out the draft minutes on 09 September. Hockersmith wanted to poll the representatives. Thompson said that she still has questions based on the FPC analysis. She doesn't feel that the Corps should be ready for a decision. Setter said that all questions need to come in writing. The Corps wants to move forward. Setter would prefer not to elevate and resolve this in FPOM or FFDRWG. Ebel asked if there is funding for the telescoping option or where would that money go if it was not used on this project. The new option is a significant savings. Setter didn't know about the budget. She suggested submitting the question in writing. The project is capital funded, not CRFM funded, and the potential savings would be used on other capital projects. Lorz has concerns about using the data from LMN to make a decision at IHR. He is not sure what the spill will look like for IHR next year. He would like to see an evaluation at IHR. Lorz wants to know more about the cost estimates. The region wasn't involved through the 30, 60, 90 reports in NWW FFDRWG as is typical. The turbine survival program has an interest in an evaluation. Setter said that the new Bi OP will allow the Corps to look at removing screens at IHR. Lorz thinks that they don't have enough information, especially for a big project. Bellerud said that there are multiple confounding factors before removing screens. Anderson said that the survival at LMN is irrelevant to this situation, but the project survival can be used at IHR as data. The topic will go back to FFDRWG. **PENDING.** Setter strongly suggested to send in comments in writing. The PDT is hoping to get an answer by October.

8.1.2. 20AppG003 – LWG Dewatering (Peery, Holdren). update underway. Discussed at August FPOM. Needed more time for review prior to approving. To reduce the chance of a mortality event, Holdren would like to dewater the trap right away. Lorz was concerned about people who use the trap. He didn't hear any issues. Ebel also passed it on to his folks and didn't hear anything. Van Dyke asked if the 72 hrs is based on a weekend issue. Peery thought it could be done in 48hrs but added the extra day for crews and timing. This year, Holdren had to wait until adequate staff which was a couple of weeks. The time starts from the last sample or the decision to close it. Van Dyke doesn't think a planning document should contain an issue specific to COVID. Van Dyke said the sooner the better for dewatering the trap. There are clearances required to shut down the trap which requires powerhouse staff. Currently, there are no restrictions on when the trap is dewatered. Setter suggests sending in written comments. Ebel said that IDFG has no further comments to send in. Thompson doesn't see any problems. Van Dyke would like to add no later than 72 hrs. **ACTION: Peery will make the changes "no later than 72hrs" and resend. PENDING.**

8.2. New Change Forms:

8.2.1. 20JDA003 – TSW Install Date (Kovalchuk) – This change form is to install the TSW on a weekday and spill the no-TSW pattern until the TSW can be installed. Swank recommending installing starting spill early. The spill agreement doesn't allow for the spill to start early. Van Dyke finds this topic sensitive and wants to review closer. The spill amount would be the amount established by the FPP but following the pattern without TSW until it can be installed. The removal of the TSW is done on a weekday. Lorz asked if the tainer gate can be used to close the spill while the TSW is in place. Kovalchuk doesn't think it can be closed. Bettin thinks it can. Van Dyke requested more information on the opening and closing techniques. **ACTION: Fielding will investigate the possibility of installing the TSW on a weekday and then closing it until the correct date.** JDA spent 10K on overtime costs installing the TSW on the weekend. **PENDING.**

8.2.2.20AppA002 – Fall 2020 Spill for Steelhead Overshoots (Conder) – This change form is taking language from the Bi Op on the new spill operation and adding it to the FPP. The Bi Op has been signed but the ROD has not. The Bi Op doesn't go into effect until the ROD is signed. Van Dyke thought that Conder has some other issues. Bellerud suggested waiting for Conder before approving this change form. Ebel said that it is time sensitive. The dates for MCN starts 14 September and waiting until the next FPOM would be too late. Wright took the language directly out of the Bi Op. Van Dyke asked if the Corps is planning to implement the operations regardless of if it is in the FPP and the Corps is. Van Dyke is supportive of adding language for the steelhead overshoots, but this is a planning document. He doesn't believe that the operation is time sensitive since the Corps is going to implement the operation. Ebel asked if spill would start on 01 October at the Snake River dams if the change form was not approved. Setter said that the Corps has a legal requirement to follow the Bi Op so we could still spill without the FPP change form. The FPP describes how the Corps will operate and maintain the projects on an annual basis. When a change happens mid-year, the FPP doesn't change until the following year. Bellerud recommends approving since it is a requirement in the new Bi Op. Mackey said that the Bi Op requirements would not go into the study section (Appendix A) but instead the FOP or individual section. Setter said she thought that it is going into Appendix A because of the McNary overshoot study and could go into the FOP next year. Setter said that Wright and Conder decided on Appendix A. Baus said that the FOP comes out after the 2021 FPP. Mackey said that if it is a permeant action, then App A is a not the correct place. Setter believes that adding to the study appendix is because it is a starting point. Bellerud wants to make sure everyone understands the upcoming operations because otherwise people have to dig through the Bi Op to flush out the spill operations. Van Dyke is supportive but would like additional conversations about the upcoming operations. Ebel supports the change form. Sullivan said that the spill operation doesn't start until the 15 September at MCN. Baus asked for clarification because the study period starts on 14 September. The spill doesn't start on the first day (14 September) but on a randomized date (which happens to be 15 September). The operation should read "from 15 September". Sullivan said that the second bullet under MCN, spring spill and fall spill will study duration. Even though it clarifies that duration will be studied under spring, it is confusing since it is under the spring and fall header. Fall spill won't look at duration. Sullivan is fine with leaving the wording as is since it was bulleted under the spring spill and only applies to 2020. Morrill pointed out that the FPP is a living document that can be changed. Setter said that this language may be used in the FOP so it may be something to change. Bettin said that they will not be studying duration next year. Van Dyke is against changing the language that affects the 2020 FPP for a 2021 FPP. Bettin recommended adding the year. Ebel would like the 2020 language to stay for historical records. Sullivan will make sure the language is correct for 2021. Setter asked if anyone had a problem with changing the date to the 15th. Ebel would prefer to keep the date of the study period because spill could have started on the 14, 15 or 16 of September. Setter said in the change form language it says the date of the study starts on the 14th but the surface spill will start on the 15th. Ebel would prefer consistent wording with the study for historical purposes. Setter said that operation doesn't start until the 15th and the action agencies are very sensitive to dates. Morrill recommended adding a parenthesis saying, "first day randomly assigned to start spill is the 15th". Baus recommended stating that the study starts on the 14th and adding the randomized start date. Sullivan said that during the negotiations for this operation, BPA agreed to a test from 15 -30 September, so the date is not actually randomized. If the FPP is defining the study period, then Sullivan wants to make clear that the study period is different than the start of spill operation. She doesn't want the language not to reflect the policy. Setter

agreed that often language is re-used. The spill operations on the Snake projects starts on 01 October. Ebel asked if the spill for the Snake should be revised as well based on the BPA spill agreement. Bettin said that difference is the MCN spill is a study test and they needed a 7-day block. Each Snake River ST spill is a weeklong period that can be done on any day. MCN has a fixed schedule but the Snake doesn't. Ebel wants to know if there should be specific language in the FPP about dates. There will be weekly parameters in the spill programs that are specific to each project. MCN will be looked at this year in September and may be in October in the future. The spill agreement is for a week of spill, but the date can change. The date can be changed in the Bi Op because the FOP comes out later. Morrill suggesting adding a sentence that this is a study, and, in the future, the dates would be different. Baus wants the FPP needs to have adaptive management. Baus added "as described in the 2020 NMFS Bi OP adaptive management will be a part of these actions in the future" to the FPP impacts. **Approved.**

9. Task Group Updates.

9.1. Avian Task Group meeting – rescheduled. The new date and time will be sent out soon.