

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 10 August 2017 FPOM meeting.

The meeting was held in the Columbia Room, CRITFC office, Portland, OR. In attendance:

Last	First	Agency	Email
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Documents may be found at: <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

1. Decisions made at this meeting.

- 1.1. July minutes were approved.
- 1.2. LWG blade angle and index testing - LWG will wait until after fish passage season to adjust the angle of unit 2 and complete the index testing. The unit priority schedule is MU3 until 1 September then MU2 until MU1 returns to service.

- 1.3. LMN primary dewatering structure Walleye situation - FPOM recommends documenting the process used to remove the walleye and writing an after action for a new protocol for the FPP.
- 1.4. BON T11 outage - FPOM members recommend bringing back T11 now and completing the work in September.
- 1.5. 17TDA20 MOC AWS early start - FPOM concurs with the November day work and the October nights starting on the 16th if mitigation is available.
- 1.6. 17LWG19 MOC ROV inspection - FPOM concurred with this action and suggests doing the work in the afternoon.
- 1.7. 17LGS16 MOC Unit 1 Governor Oil Pump Switch - FPOM concurred with this action.
- 1.8. 16LGS02 MOC TSW Removal and ASW Installation - FPOM concurred with this action.
- 1.9. 17LMN07 MOC Digital Governor - FPOM concurred with this action.
- 1.10. 17IHR11 MOC Trolley and Fish Pipe Installation - FPOM denied this action.

2. The following documents are provided or discussed at this meeting. All documents can be found at: <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

- 2.1. *Agenda, Fish Passage O&M coordination team*
- 2.2. *FPOM Outage Schedule (NWW)*
- 2.3. *FPOM Charter (NWW/NWP)*
- 2.4. *Draft Memo: A brief summary of American White Pelican activity observed at the McNary JFF outfall pipe discharge (WDFW)*
- 2.5. *Proposed standard daytime counts April through October 2019 (NWW)*
- 2.6. *ERDC trip B2CC min spill 7/17/2017 (NOAA)*
- 2.7. *Coordination Forms (MOC/MFR)(NWW/NWP)*
- 2.8. *FPP Change Forms (NWW/NWP)*

3. Action Items

3.1. NWW – no action items

3.2. NWP

3.2.1.[July 17] BON adult fish in PH1 tail log slots - ACTION: Kovalchuk will contact Tackley about using a hydro acoustic transducer to monitor the slots. *Status: Completed.*

3.2.2.[July 17] TDA Pendants - ACTION: Cordie will check to see if the pendants are in useable condition. *Status: The pendants are very rusty and in an unusable condition. TDA will scrap the pendants.*

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

3.3.1.[July 17] Next 5 year fish count contract - ACTION: Peery will have a rough draft by August. *See 3.1.2.*

3.3.2.[May 17] 17IHR02 Powerhouse flooding at high tailwater - ACTION: Peery will talk to Ken Fone to see if some of the AWS pumps can be turned off instead of all of them. *Status: During high tail water, water floods the warehouse. Peery recommended using a bulkhead to block off the conduit and not using as many pumps. The project grouted the expansion cracks in the floor and believes this will fix the problem. An FPP change form will be drafted to change the language from turning off the AWS pumps during high tail water but it will have to wait to see if the fix worked or the transverse bulkhead should be used. See 6.2.1.*

3.3.3.[Jun 17] BON Debris loading on the fish units - ACTION: Hausmann will write an MOC. FPOM recommends raising all gates to 8' rather than shut an entrance to maintain criteria and doing the work in the afternoon. *Status: Never implemented because the debris is much less now.*

3.3.4.[Jun 17] 17BON11 MOC T11 Outage for B2 Roof Repair - ACTION: Hausmann will ask about shifting the outage until September and provide an MOC. *Status: An MOC was*

written but an additional six hour complete PH2 outage on 7 August from 10am -4 pm is planned. An update to the MOC will be sent out.

3.3.5.[Jun 17] B2FGE - ACTION: Rerecich will follow up to see if the B2CC outage could overlap with the complete PH2 outage. *Status: B2CC barge will be removed after spill so no coordination is necessary.*

3.3.6.[May 17] 17BON10 MFR MU3 Juvenile salmonid morts - ACTION: Hausmann will add the preventative measure to the unit dewatering plans. *Status: Completed but need to send to Kovalchuk. Status: BON is updating other documents as well and will send them all to Kovalchuk.*

4. Updates

4.1. NWW

4.1.1.Upcoming maintenance/construction/research activities.

4.1.1.1. FPOM outages schedule

LGS - Unit 5 has been extended. An MOC for the ASW will be discussed later.

LMN - Unit 1 has been extended and this will impact the unit 5 oil leak repair.

Unit 2 has an oil leak and is now out of service. The project has 1,2 and 5 out of service.

IHR - An MOC requesting extended work window for the research trolley pipes will be discussed below.

LWG - Unit 1 has been extended another 2 weeks and possibly more.

4.1.2.Court ordered early start-up of by-pass facilities [Van Dyke, Hesse, Lorz] - The COE received the Memo about early start up. Setter said NWW will have difficulty starting MCN early because of the repairs to the screen cleaners. The contractor has to design and fabricate the parts. The MCN screens will not be put in early. Setter talked to Hesse about the MCN situation already. Van Dyke understand the importance of the repairs at MCN but suggests exploring every avenue to complete the repairs early. Lorz suggests using JDA instead of MCN for 2018. JDA is recommended for every year but only requests every other year. Zyndol pointed out that JDA is also under stress financially due to the consequences of the STS crane failure. Spare parts are being ordered for maintenance. Partial deployment could be possible by putting screens in priority (running) units. In a typical year, not all units are running in March. If the year has high flows like this year then put in as many screens as possible and run the other units without screens. JDA needs an additional 100k to perform the maintenance in a shorter amount of time. An internal meeting will be scheduled for JDA. Snake River facilities don't have any circumstances that would stop this from happening except at LWG which has a multi-year construction project. Although it is expected to be finished on time, there is a possibility of a delay. Preparing LGS just in case would incur high cost. The project would need to know by October to hire techs in time. Setter asked about the data to be collected and evaluation of this program. The letter sent to the COE did not define the evaluation component. In response to Setter's concerns about staffing, Van Dyke asked if projects can share personnel. Setter said that there are interns that can be shared and projects can do emergency hires for 30 days. There are options that may be workable. Conder suggested initiating a shift to LGS now if LWG may not be completed. FPC said that they are ready for early start up. Hockersmith feels pretty confident that the contractor will finish on time at LWG and the additional costs will be funded. The LWG topic will be brought up at FPAC next week. If the projects are switched, then the Memo needs to be updated and it also needs to include the evaluation section. Lorz said that this is mostly about data collection but will add some language about how the data will be used. Historic index numbers will be compared. The data will determine the path forward after the four years.

- 4.1.3.LWG spill mitigation for Sept- Dec – An MOC was coordinated for spilling 7K, 12 hours a day, during the day for mitigation of the by-pass system. NWW would like to know if there is a temperature trigger for RSW versus deep spill. There had been an issue with using the RSW but that is no longer a problem. **ACTION: This topic will be brought to FPAC next week.** The project is planning on using the RSW but wants to know if there is a temperature requirement for using the deep spill instead. Tainter gate seals repair will not be impacted by this spill.
- 4.1.4.LWG blade angle and index testing – Unit 2 is set at 29 degrees which is just outside the upper end of 1%. The project would like to adjust the angle to 27.8 degrees and then do index testing in early September. During summer FOP spill, unit 2 is not the priority unit. With unit 1 not expected to return until Sept 15, unit 2 will become the priority unit on Sept 1. Lorz recommended waiting on the index testing until after unit 1 returns to service. The project suggested waiting on the index testing until December well after adult fish passage season. **The proposed priority schedule is unit 3 till Sept 1 then unit 2 until unit 1 returns to service.** Assuming 100' of head, flow is 18.7kcfs without screens for unit 2. There should be enough water to run unit 2 and the RSW unless the forebay goes above MOP. The mitigation spill is only day time. Unit 2 and unit 3 can swap the annual maintenance dates however there may be a constraint on the collection channel work/orifice mining. FPOM is okay with operating outside the upper 1% for unit 2 from September – December. Hevlin asked for a horizontal priority schedule like the outages schedule to be included in the MOC.
- 4.1.5.LMN primary dewatering – Walleye are holding in the primary dewatering structure and fresh bites have been observed in the sample. If the project lowers the overflow weirs and leave the orifices open, the walleye can be pushed into the flume and out the adult by-pass. In past years, one or two walleye would pass over the separator bars a year; this year, 30-40 walleyes are passing per day. The size has ranged from 12-20 inches. In the LGS pool, walleye population has been growing. An MOC will be written. FPOM concurs with the operation but there is concern that this is a problem for the future. In the past, the walleyes have not been hanging in the primary dewatering structure. **FPOM recommends documenting the process used to remove the walleye and writing an after action for a new protocol for the FPP.** Morrill will take a trip out there and see if there is anything to add.

4.2. NWP

- 4.2.1.Upcoming maintenance/construction/research activities.
- 4.2.1.1. BON T11 outage (17BON20) – The contractor did not start on Monday as planned due to issues with the fall protection plan. The full powerhouse outage did occur and other work from the project was completed. Either the outage will be extended one week or postponed to September. The fall protection is now approved. **FPOM members recommends bringing back T11 now and completing the work in September.** Hausmann will update the MOC and send to Mackey. For next year, Albright will request September for the T12 outage.
- 4.2.1.2. TDA Rail Removal (17TDA17) – Albright mentioned that there is a section near the east fish ladder entrance where Kiewit is working that needs rail removal. That section may be extended to next year.
- 4.2.1.3. TDA Back up AWS - discussed below.
- 4.2.2.Forebay Temp profiles - The project will be postponed until next year. Lundell will come back to FPOM in October/November with more information.
- 4.2.3.BON Unit 17 status – The unit has a stuck screen and a dive is planned for 24 August to fix it. MU 18 and 16 may need to be OOS.
- 4.2.4.SMP high temperature sampling – JMF and SMF are on modified sampling.
- 4.2.5.NWP ROV inspections

- 4.2.5.1. BON – The ROV is not functioning because water started to seep into the ROV. BON has talked with the district about finishing the inspection. A lot of sand was observed in the section that was completed. For F1 & F2, a survey will be done at the end of September at the same time as the Spillway survey. A dredge contract may need to be started since sand is likely an issue.
- 4.2.5.2. TDA – The ROV inspection went well. Particular attention was paid to the junction pool area after the AWS work was completed, all was fine.
- 4.2.5.3. JDA – The inspection was completed on 02 August with the district ROV. Only the south entrance and collection channel diffusers were looked at. All gratings look good. Lots of algae growth was observed making it hard to see the bolts. The north side was skipped due to the elevator but the gratings are newer and not expected to have any problems. In the south end of the collection channel, many lamprey were observed both alive and dead.

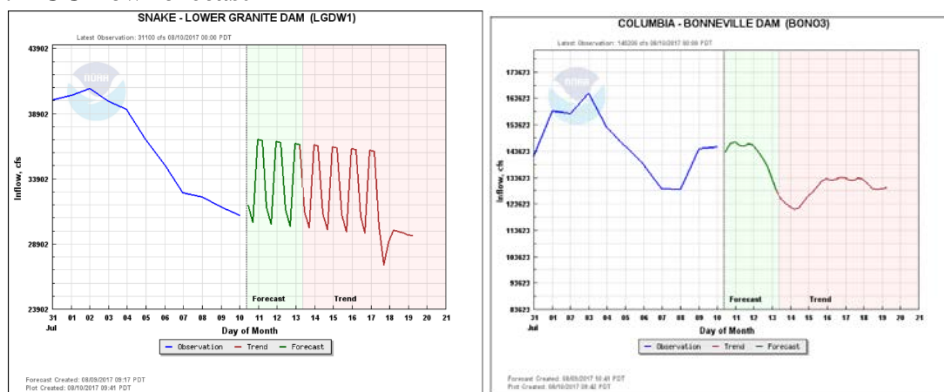
4.3. Research/FFDRWG updates. www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html

- 4.3.1.NWP FFDRWG – The next meeting is 7 September. BON inspected the unit 15 flow control plates and found loose nuts on the bolts. The project is investigating this issue and will look at the other units. In one of the rest boxes located in the WA SH serpentine area, a cam lock came loose. The project may want to do a partial dewatering and fix it.
- 4.3.2.NWW FFDRWG – The next meeting is 24 August. If reps are not available, the meeting can be rescheduled but the reps need to give this feedback to Fryer soon. SRWG meeting was scheduled for the same day.

4.4. RCC update

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	31	33	29	29 (8/19) / 34 (8/10)
MCN	153	116	124	115 (8/13) / 143 (8/10)
BON	142	121	129	122(8/14) /147 (8/10)

Table 1. RCC flow forecast



4.5. BPA update – No update

4.6. Fish Count Program

- 4.6.1.Next 5-year adult fish counting contract [Handout on the standard daytime counts proposed] Peery discussed the current proposed schedule. Mackey recommended adding October and November night time counts for BON, TDA and JDA on a rotating basis.

NWW already has several night counts and doesn't feel like adding more night time counts for their projects is worth the additional cost or that information is necessary. Comments are due next week. FPAC will discuss this topic at their next meeting. Peery will send out the final draft to the FPOM group. Wertheimer brought up the shad counts and the contract requires 85% accuracy. Shad are a biological indicator and it is important but it is also a huge amount of work for the contractor. Peery asked about the importance of the clipped/unclipped for an hour day counts, specifically Coho. **ACTION: Lorz will ask TAC about the importance of Coho unclipped/clipped counts.** FPOM wants the criteria for shad count accuracy to stay the same so that different years can be compared. FPOM would like counts posted by 7 am which means that unverified data will be posted until the counts can be verified. FPC will note the difference between verified and unverified is some way like colored font or an asterisk on the website. **Note: all data sent to FPC this year is verified data and this discussion is for the next contract.**

4.7. Pinniped update – Stellar sea lions have been arriving earlier in the fall. Currently, there are two bulls in the tail race. NOAA sent a letter to the COE requesting more observations in the fall but the trigger to start observations/predation rates has not yet been decided.

4.8. Lamprey update – Orifice RME work: FFU has collected video on three out of the four time periods and has viewed the first 24 hours of each section to make sure there are no major problems. The water clarity has improved so the camera angle has been switched to capture the rest box as well. Lamprey have been using the rest boxes in large numbers. The objective of the video work is to make sure that there are no major interactions with salmonids and only minor interactions have been observed. The LPS have been well used this year. The air valve position on the LFS was changed to increase flow but it did not increase lamprey passage. It is not clear why the LFS is not passing as many fish as the other systems. Conder noted that the rest boxes have small entrance and exit holes and the lamprey seemed overly crowded in them. FFU is observing lamprey behavior but is mostly focused on the interactions with salmonids.

4.9. Avian update

4.9.1. BON (Hausmann) – Juvenile gulls had been present at the project but have now left.

4.9.2. TDA (Cordie) – Two lines are lost and scheduled to be repaired after spill.

4.9.3. JDA (Zyndol) – Light gull presence all year have been noted but lots of pelicans staying on the islands. A couple more lines have broken but will be replaced this winter.

4.9.4. MCN

4.9.4.1. Pelican hazing WDFW – [Handout from WDFW] VanNice explained the observation data presented in the handout. Pelicans and cormorants appeared to be competing for smolts. WDFW will continue the observations next year. Pelicans are sensitive to interaction by human, sprinkler or firecrackers. Setter has noticed that it hasn't been that simple to get pelicans to move than walking out on the outfall. Direct hazing would work but that is still an issue for WDFW. Johnson noted that the cormorants were hazed during the release of the smolts from the sample due to the concentration of smolts which resulted in indirect hazing of pelicans. Depending on the location, the pelicans could be feeding on other fish than smolts but at the outfall, pelicans are feeding on smolts.

5. FPOM Charter Review – Fredricks responded to comments made from Setter and Mackey. NWW/NWP will review these comments and send out a draft final to the group. Further comments will be accepted until the September meeting. The TMT charter has language about not sending a representative and similar verbiage will be used. Agencies need to provide representatives to the meetings. Although the two week comment period on the MOC is designed for everyone to have time to comment, it is not always possible.

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

- 6.1. 17TDA20 MOC Oct start revised** – After the last FPOM, the PDT reviewed the schedule and decided that without additional time, the project would extend to a third season. In order to reduce fish impacts, the work has been revised to only areas 3 and 4. The PDT needs to add 29 additional shifts to the schedule. The concrete demolition has been moved to November nights. FPOM recommends reviewing PIT data to see if fish are going back down the ladder. Fredricks recommended against the October work but if the work had to be done he suggested the project could spill during this period to attract fish to the north ladder. Only earth removal is planned in October. Night time is defined as 6pm – 6 am. **ACTION: Rerecich will update the MOC to reflect the request for spill for BPA to review.** A third season will cost too much money. **FPOM concurs with the November day work and the October nights starting on the 16th if mitigation is available.** March is being scheduled now.
- 6.2. 17TDA21 MOC Spillway Hydro survey** – Comments were received and will go forward as planned.
- 6.3. 17TDA22 MFR PL morts CRITFC traps and holding tanks**
- 6.4. 17TDA23 MOC Dredging Nav Lock** – No comments. The action will go forward as described in the document.
- 6.5. 17 LWG 14 Adult Trap Chinook Mortality (Peery)** - Four adult fish had jumped out of the flume. There are bars to prevent this that had broken and have now been replaced.
- 6.6. 17 LWG 15 Adult Trap Shad Issue (Peery)** – Dead shad collected in the recovery pool and blocked the screen. The project is now checking the screen daily.
- 6.7. 17LWG16 MFR Unit Priority Deviation (Hockersmith)**-This was a unit priority deviation and the issue has now been resolved.
- 6.8. 17LWG17 MOC Unit Priority Change (Hockersmith)** – Approved 8/2/17 via emergency FPOM Meeting talked about earlier.
- 6.9. 17LWG18 MOC Orifice Installation and Power Outage (Hockersmith)** – Approved 8/1/17. Hockersmith will send out an update.
- 6.10. 17LWG19 MOC ROV inspection (Hockersmith)** – The ROV inspection of the adult fish ladder entrance requires a 6 hour outage between 14-17 August. Conder suggests doing the work in the afternoon. Van Dyke doesn't agree with doing an August inspection because it continue to follow a repeated pattern of degrading fish protection in August—prior to August 31 end of spill for juvenile fish passage season (might be better to do after September 1) but concurred that Conder's suggestion might be more tolerable. **FPOM concurred with this action.**
- 6.11. 17LGS13 MOC Adult fish ladder window cleaner (Peery)** – The work was completed but it did not resolve the issue. The follow up work will be after the ladder is out of service.
- 6.12. 17LGS14 MOC Station Service Validation Testing (Hockersmith)** – No comments were received. Work was completed as described in the document.
- 6.13. 17LGS15 MFR 30% Spill Deviation (Hockersmith)** - Spill deviation for an hour.
- 6.14. 17LGS16 MOC Unit 1 Governor Oil Pump Switch (Hockersmith)** – The project needs to take unit 1 out of service from 15-17 August for the governor pump switch repair. **Comments were received from NOAA and CRITFC, ODFW and IDFG concurred.**
- 6.15. 16LGS02 MOC TSW Removal and ASW Installation (Hockersmith)** - This is a revision of last year's MOC. The project is seeking an early start on 19 Sept – 28 Feb. If spill became necessary, spill would start on the opposite side of the work. **FPOM concurred with this action.**
- 6.16. 17LMN07 MOC Digital Governor (Hockersmith)** – The project needs to do the commissioning for unit 6 which will take 6-7 hours a day for four days starting next Monday. This will include operating at speed no load. LMN has some flexibility issues with units 1,2 and 5 out of service. The project needs to get unit 6 back as soon as possible. Morrill asked about the JDA digital governor issue and if this would happen at LMN but Setter did not recall any sturgeon issues on the Snake River. **FPOM concurred with this action.**

- 6.17. 17IHR11 MOC Trolley and Fish Pipe Installation** (Peery) – The biological testing is scheduled for this February. The project is requesting an extended work window starting 15 Nov – Feb to install the trolley pipes on the pier noses. Some of this work was supposed to happen last year but due to high flows and certain units being out of service, it was not completed. Trolley pipes will be used for balloon tag releases or JSAT fish in future studies. Fish release pipes could be installed during the IWW. The trolley pipes are to be used for a study that may not happen. Conder doesn't think that we should impact fish now for a study may not take place. The PM and the PDT had funding and lumped the two studies together to save money. **FPOM denied the early start of the work.** Chamberlain said the unit outages will have minor impacts to fish but would be a considerable cost saving for the COE if the study goes forward. IDFG does like to save money but doesn't know the issue well. IDFG will abstain from commenting on this action. The pipes have been made and will be stored but there will be a financial loss to the contractor since the contract has already been made. During the IWW, the trolley pipe that is hanging off the dam will be secured and any other necessary work will be completed.
- 6.18. 17IHR12 MOC Unit 1, 2 Outage Updated** (Peery) – Peery updated the wording as suggested at the last meeting and the MOC is now approved.
- 6.19. 17IHR13 MFR PL mort at SFCS** (Hockersmith)
- 6.20. 17MCN13 MFR Spill bay 20** (Peery) - This was an electrical outage for a crane issue which was fixed.
- 6.21. 17MCN14 MFR Sample Delay** (Peery) – There was a two hour delay in sampling for a repair to the dewatering screen.
- 6.22. 17MCN15 MFR spill bay 2** (Hockersmith) – This is the accidental spill deviation for two weeks. Hockersmith updated the MFR with the RCC input. Hockersmith described how the passage data was estimated by using the latest passage data based on collection and applied the passage proportion.
- 6.23. 17JDA14 MFR Lamprey mortalities at SFL CS**
- 6.24. 17BON35-48, 50-52, 55-58 and 60-61 MFR PL morts** – IDFG has concerns about the large number of lamprey mortalities throughout the system this year. The main reason is the record returns this year plus the documentation of mortalities is better. Wertheimer believes that the lamprey losses are within the standard loss rates compared to other years. Disease is present in every fish. Temperatures are also high. Trapping mortalities could be a result of high temperatures. Wertheimer will take back the issue to lamprey forums. The current temperature cut off is 74 degrees for trapping lamprey.
- 6.25. 17BON49 MOC Spillway Hydro Survey** – Comments were received and the MOC is moving forward as documented.
- 6.26. 17BON53 MFR WA SHORE SOC morts** –The project lifts the leads 1.5” for lamprey. The gap was confirmed by Hausmann. NOAA requests that the COE narrow the gap to 1.25” or less to prevent the mortality of potentially listed sockeye in this area. **ACTION: Lorz will talk to the lamprey task group about the size of the gap that would still be acceptable for the picket leads.** Hausmann noted that the sockeye were very small.
- 6.27. 17BON54 MFR DSM PL mort**
- 6.28. 17BON59 MOC WA Shore LPS Flow Sensors Retrofit** – Swank asked if the work could be delayed till September since this is a high passage year. The MOC is required because it is within 50’ of the fish ladder but there is not much impact to salmon. The flow sensors could fail but there are two of them. Kovalchuk will follow up with Walker to see if the work could wait until late September or October. FPOM requests that the work is done first thing in the morning if it occurs in September.
- 6.29. 17JFT01 MFR Fish Barge Release Site Deviation** (Hockersmith) – This is related to the changes in the transportation program due to the rail road problem.

6.30. 17JFT02 MFR Secondary Bypass and Raceway Release due to Navigation Outage
(Hockersmith)

7. Fish Passage Plan: The Current 2017 FPP and Change Forms are online at <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2017/>.

7.1. Pending FPP Change Forms. - All forms are pending to next month.

7.1.1.17LWG008 – U1, U2 Priority. – Pending.

7.1.2.17OVE003 – FPOM Coordination. (Mackey)

7.1.3.17DWR001 – New Project Section defer to later mtg. (Setter)

7.1.4.18-AppD-001 – Cooling Strainer Inspections. Final review (Peery).

7.1.5.17LGS007 - Position of Operating Gates - Approved tentatively at July FPOM was waiting for Lorz to read and provide any comments. Final Review. (Hockersmith)

7.2. New FPP Change Forms

7.2.1.18-IHR-001 – AWS Ops during High Tailwater (Peery)

8. Task Group Updates.

8.1. BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team: Bettin, Ebner, Hausmann, Kovalchuk, Rerecich, Wright. Fredricks provided a draft ERDC trip report handout. FPOM members need to review the document. Three main operations were looked at - 19, 22 and 26K. The best spill pattern was having the bulk of the spill passing on the south side with one bay (spill bay 1) open on the north side. Since this modeling effort was a bit make shift, a prototype test is needed with spill at BON after the normal spill season is over. The test may use dye in the river. Fredricks suggested that the Corps would be coordinating with the proper agencies (BPA and Coast Guard, ect.).