

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 14 August 2014 FPOM meeting.

The meeting was held in the Celilo Room at CRITFC. In attendance:

Last	First	Agency	Email
Bettin	Scott	BPA	swbettin@bpa.gov
Conder	Trevor	NOAA	Trevor.conder@noaa.gov
Cordie	Bob	NWP-TDA	Robert.p.cordie@usace.army.mil
Dalen	John	NWP-FFU	
Dugger	Carl	NWW-MCN	
Fone	Ken	USACE-NWW	
Fredricks	Gary	NOAA	Gary.fredricks@noaa.gov
Hausmann	Ben	NWP-BON	Ben.j.hausmann@usace.army.mil
Hevlin	Bill	NOAA	Bill.hevlin@noaa.gov
Iverson	Tom	Yakama Nation	t.k.iverson@comcast.net
Jones	Tucker	ODFW	
Kiefer	Russ	IDFG	Russ.kiefer@idfg.idaho.gov
Klatte	Bern	NWP	Bernard.a.klatte@usace.army.mil
Kostow	Kathryn	ODFW	Kathryn.E.Kostow@state.or.us
Lorz	Tom	CRITFC	lort@critfc.org
Lujan	Ken	USFWS	
Lut	Agnes	BPA	axlut@bpa.gov
Mackey	Tammy	NWP	Tammy.m.mackey@usace.army.mil
Mensik	Rosanna	SMP	
Moody	Greg	NWW	Gregory.p.moody@usace.army.mil
Morrill	Charles	WDFW	
Nagy	Bill	NWP-FFU	
Petersen	Christine	BPA	
Pinney	Chris	NWW	
Rerecich	Jon	NWP	Jonathan.g.rerecich@usace.army.mil
Scott	Shane	NWPPC	shane@rainiercorp.com
Sears	Sheri	Colville Tribes	sheri.sears@colvilletribes.org
Setter	Ann	NWW	Ann.L.Setter@usace.army.mil
Skiles	Tom	CRITFC	
Stansell	Robert	NWP-FFU	
Van Dyke	Erick	ODFW	erick.s.vandyke@state.or.us
Wills	David	USFWS	David_wills@fws.gov
Wright	Lisa	NWD-RCC	Lisa.s.wright@usace.army.mil
Zorich	Nathan	NWP-FFU	Nathan.a.zorich@usace.army.mil
Zyndol	Miro	NWP-JDA	Miroslaw.a.zyndol@usace.army.mil

Dugger, Kiefer, Mensik, Morrill, Pinney, Sears, called in.

July and August birthdays include: Zyndol, Hausmann, Feil, Grosvenor, Keller, Randall, N. Richards.

HAPPY BIRTHDAY!

1. Decisions made at this meeting.

- 1.1. June FPOM meeting minute were approved.
- 1.2. Avian counting should go through 31 July and include foraging birds in the tailrace at Ice Harbor in future years.
- 1.3. FPOM concurred with making the following improvements at TDA-N only. If they prove successful, there may be concurrence to do these improvements at other projects but not right now.
 - 1.3.1. Video counting at TDA-N. **Yes.**
 - 1.3.2. Paint the crowder. **Go with battleship gray. May test other colors but start with gray.**
 - 1.3.3. Add more light. **Maybe, if shielding the camera and lightening the floor and crowder do not work. .**
 - 1.3.4. Shield the camera. **Yes.**
 - 1.3.5. Plate fishway with Teflon to reduce algal growth and lighten the floor. **Ok but have contingency plan if it turns out to be a barrier.**
- 1.4. **ODFW request to use the AFF.** Jones reported on the meeting with the AFF researchers and Rerecich. The outcome was that as long as ODFW did not impact the other researchers, there wasn't opposition. Rerecich confirmed NWP is ok with moving forward with the action. **FPOM concurred with the use of the AFF by ODFW this fall.**
- 1.5. **Coordination/Notification forms (need concurrence).**
 - 1.5.1. 14IHR 08 Spillbay 9 Cables Repair. Fone reported the stop logs need to be installed and the bay dewatered. Work would begin next week. Spill would continue but the pattern would be altered to account for the closed bay. **FPOM preferred the one stop be moved to bay 10.**
 - 1.5.2. 14 LMN 02 Unit 5 Exciter Repair and Testing **Revision #2.** Moody said the work is going to be done from 8-12 September. Hevlin said he didn't figure there would be a problem and asked that NWW keep track of the counts. **FPOM concurred.**
- 1.6. **Task Group Updates.**
 - 1.6.1. BON Ops. (Lorz) **Met on 25 June at 1100. Meeting minutes approved.**
 - 1.6.2. Avian task group. (NWW). Team members include: Cordie, Dugger, Fone, Fredricks, Hausmann, Madson, Roberts, Setter, Skidmore, Trachtenberg, Zorich, and Zyndol. Meeting held on 13 May. **Met on 1 July. May and July meeting minutes approved.**
- 1.7. **Fish Passage Plan:** The 2015 FPP draft sections and change forms are online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2015/index.html>.
 - 1.7.1. **15BON001 – A-Branch Diffuser Setpoints. Approved.**
 - 1.7.2. **15MCN002 – Work Near Fishway. Pending.** NWW cannot support this language change at this time. Fredricks strongly disagrees with NWW. Fredricks and Setter disagreed on whether construction projects have been coordinated through FFDRWG and other environmental compliance routes. Setter said the claims about noise are pure conjecture. Klatter made it clear that NWP would not be joining in this battle. Setter said she is against putting language in the FPP that doesn't get implemented. Fredricks said it does get implemented and often. He said it is a trigger for more discussion. Dugger said most construction isn't going to cause avoidance for fish. He said he doesn't ever remember such a thing coming up for NWP. Lorz jumped in and said it happens all the time and it is important. One example for NWP is the BI bridge replacement. Setter has no support in NWW for the language and she was tasked with bringing back the justification for the language.
 - 1.7.3. **15IHR001 – Work Near Fishway. Pending.** NWW cannot support this language change at this time. Much of FPOM strongly disagrees with NWW.

- 1.7.4. **15LGS001** – Unit 5 Restricted Operation. **Approved.** Wright explained this is a clarification.
 - 1.7.5. **15LGS002** – Unit 1 Low Flow Operation. **Approved.** Wright explained that this is a clarification due to annual confusion with the U1 operation.
 - 1.7.6. **15LGS003** – Work Near Fishway. **Pending.** NWW cannot support this language change at this time. Much of FPOM strongly disagrees with NWW.
 - 1.7.7. **15LMN001** – Work Near Fishway. **Pending.** NWW cannot support this language change at this time. Much of FPOM strongly disagrees with NWW.
 - 1.7.8. **15LWG001** – Work Near Fishway. **Pending.** NWW cannot support this language change at this time. Much of FPOM strongly disagrees with NWW.
 - 1.7.9. **15AppD001** – JDA Tagged Lamprey Release. **Pending.** Most of FPOM is ok with this but Lorz would like to check with McIlraith before final approval. Forebay is fine, the verification is for release in the navlock. Zorich said this change form would just allow continuation of what is currently occurring.
 - 1.7.10. **15AppJ001** – BON, JDA Temperature Protocols. **Approved.**
 - 1.7.11. **15AppJ002** – MCN JFF Protocols >70°F. **Pending.** Dugger had concerns about using the sample holding tank.
- 1.8. TDA spill bay 9 v 10/11 funding.** Klatte explained that for trunnion pin in bay 9, there needs to be an evaluation, contract, etc. Cordie asked Ebner to add an evaluation of egress conditions from Bay 9 and from Bays 10/11 to the ERDC schedule. Klatte would like to have prioritized list after ERDC so he can pursue additional funding. **FPOM stressed that all the bays need to be repaired.**

2. The following documents were provided or discussed. Documents may 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. *Cooling Water Strainers Lamprey Counts.xls.*
- 2.3. *Coordination/Notification Forms (NWW/NWP)*
- 2.4. *FPP change forms. (NWW/NWP)*

3. Action Items

3.1. NWW Action Items.

- 3.1.1. [May 14] MCN mechanical screen sweep. **ACTION:** Dugger will provide an update later in the fall after ETS has completed scoping alternatives.
- 3.1.2. [Jun 14] IHR HAZMAT storage. **ACTION:** NWW will inquire about plan of action for removal of the equipment and more information about the materials stored in the area. **STATUS:** *The existing equipment has been dismantled and moved. The new equipment is self-contained and doesn't even require hearing protection. It is sited adjacent to the fishway. Setter brought photos of the HAZMAT storage. She stressed that IHR is meeting DOE requirements. Conder asked about the chop saw and other machinery not related to the sandblaster. Setter said she will take that back to the Project and she would like to better understand the science of acoustic noise. Setter requested a scientific review for a task group to consider. NWW is questioning the scientific validity of what is being asked of the Project and consider it more a strong opinion from NOAA Fisheries. Conder said he is fine with providing information. He said it is pretty well known that sound and vibration are concerns for fish passage. He noted that NWP has buffers in their sections of the FPP and that was included well before his time and it was accepted by USACE. Fredricks added that the burden of proof falls to NWW. Van dyke asked about the HAZMAT storage and looking at options to move material away from the fishway. Setter said IHR doesn't have options because it is space limited as far as secure space. She said IHR is meeting storage requirements for HAZMAT right now. She said unnecessarily adding to the cost of doing normal daily business is not helpful. Cordie asked if RT fish might help determine if there is a*

problem with passage at IHR. Setter said 75% of the fish pass the south ladder and there has been a long history of successful passage even with the equipment and activities stored there.

- 3.1.3. [Aug 14] Noise/vibration task group. **ACTION:** Setter will develop a group to look at the impacts of noise and vibration on fish passage.
- 3.1.4. [Aug 14]LWG fallback and temperature. **ACTION:** Conder will send his write up to Mackey so she can send it to FPOM. **STATUS: completed on 14 August.**
- 3.1.5. [Aug 14] Fish counting methods in NWW. **ACTION:** Update NWW fish counting techniques so it is clear if counting is video or visual at LMN and IHR (Moody).

3.2. NWP Action Items.

- 3.2.1. [Jun 14] WFL gate operation. **ACTION:** Hausmann will report back after they exercise the gates in early July. **STATUS:** *exercising is now every other month rather than once a month. Fish salvage will occur the next day, once water turbidity has settled. Hausmann said there may be a way to leave water flowing so fish are not left high and dry. The first time this will happen is in September. Hausmann will report back in October.*
- 3.2.2. [Jun 14] TDA-E buffer for fishermen. **ACTION:** Kostow said there is an effort between ODFW and WDFW to get consistent rules. She will check on that process and report back to FPOM. **STATUS:** *still working towards consistency. Mapping the fishing areas occurred last week.*
- 3.2.3. [Aug 14]BON ROV inspection. **ACTION:** Hausmann will propose an inspection of the north monolith once the ROV is back if it is before the start of the fall Chinook run.

3.3. Action Items completed or listed later in the agenda.

- 3.3.1. [Jun 14] BI fishway dewatering. **ACTION:** Hausmann will draft a MOC for FPOM review. **STATUS: completed with MOC 14BON21.**
- 3.3.2. [Jun 14] ODFW use of the AFF. **ACTION:** ODFW will schedule a doodle poll for next week to meet with AFF researchers, University of Idaho and CRITFC, and project biologists to develop a detailed proposal for AFF operations during ODFW sampling. This proposal will be provided to FPOM for review and comment. **STATUS: completed. Proposal will be discussed later in the agenda.**
- 3.3.3. [Jun 14] TDA-N video counting upgrades. **ACTION:** Dalen will develop a detailed information packet about what changes would be made, what cost savings might be found, and what impacts on fish passage might be. **STATUS: provided on 8 July. Will be discussed later in the agenda.**

4. Updates

4.1. NWW Updates

- 4.1.1. MCN OR ladder power outage. Pump 2 is scheduled to come back in March. Pump 3 has lost power a couple of times. The issue appears to be with a sensor and the oil pump. MCN is feeling optimistic that we shouldn't have more issues in the near future. Lorz asked how many have been rehabbed. Setter said pump 1 is complete, Pump 2 is in progress and pump 3 hasn't been done yet.
- 4.1.2. LWG – Emergency generator and pumps. Moody reported that three pumps were installed and they supply about 25% of the flow and provides cooler water. LWG is working to get modifications to allow the pumps to work 24 hour days, up from 10 hour days. The contractor should have the larger fuel tank installed by Sunday, 17 August. Setter added that the cool water hasn't been as cool as expected due to mixing in the LWG forebay. She said the original assumption was that once these pumps were installed, they would be pulling cool water. That has been shown to not be accurate when there is mixing in the forebay. She also said the on-site biologist

has found that fish do not like to exit the cooler fishway into the warmer forebay. She said there isn't a MFR yet but they found fish had jumped out earlier this week. This will be discussed further at NWW FFDRWG. Kiefer asked if the stormy weather is affecting the bushing replacement at LWG. Setter said she has not received any word that work has been affected.

4.1.2.1. Hevlin said NWW FFDRWG is looking at a way to add cooler water to the exit. He envisions a cooler water corridor at depth by putting that cooler water in the forebay. Morrill added that it could be done if enough cooler water could be provided at the exit.

4.1.2.2. Bettin asked if the fallback issue has been run to ground. Hevlin said it has just become more confusion. He said there is more to come. Right now fallback appears to be in the 30% for Chinook and sockeye. Conder said it is believed to be temperature related. Bettin asked why temperature and not spill. Lorz said the researchers suggested it is temperature related as well. Kiefer said it seems that fish have a hard time getting through the exit of the ladder; some would turn around and leave the ladder downstream. He said spill proportion does jump a little bit but it appears to be more related to temperature than spill. Bettin said this issue should stay in FPOM. Lorz nominated Conder as the Task Group chair. Setter asked if others have information to please share it with the group. **ACTION: Conder will send his write up to Mackey so she can send it to FPOM.**

4.1.3. LWG fish screen slot closure. U3 will be OOS 9/22 – 10/21. U1 will be OOS 10/22 – 11/19. U2 will be OOS 11/20 – 12/18. Long outage pushed from August 2015 to August 2016. Setter suggested asking for clarification at the NWW FFDRWG next week. U1 is pushed out as late in the fall as possible to avoid having is OOS during the highest fish passage. Hevlin commented that when there is no spill at LWG there are fairly good flow lines from the powerhouse and there should be minimal issue for fish to find the south fishway.

4.2. NWP Updates

4.2.1. BON Unit 11 update. Still expected to return December 2014. Received pre-commissioning procedure on 13 August from HDC. Fish salvage could be substantial since the unit has sat open for years.

4.2.2. BON CI exit. Hausmann explained that the plan was to modify the picket leads to exclude lamprey from the upper section rather than build a LPS. Turns out the picket leads are not interchangeable and there was a gap that allowed fish to get into the upper section. Sockeye were above the leads so BON conducted a modified ladder dewatering to push fish back downstream. As far as the high lamprey mort counts, it is believed the leads are now too small for lamprey to float downstream so the leads are now an efficient mort collector. Fredricks said he would like to see it as standard practice to install a solid bar across the bottom of the picket leads to help maintain picket spacing. Hausmann said after this winter, all the leads will be like that at BON. Conder agreed, especially in instances where we are raising leads for lamprey passage. NOAA recommended installing a bar across the bottom at each project.

4.2.3. TDA spare transformer for fish units. Cordie said it appears there may have been misinformation about the status of the fish units. Right now TDA has three original transformers for the fish units. A fourth one is a spare but is in worse condition than the operating transformers. The bank of three transformers is needed to run the fish units off that bank. If the transformers fail, the fish units may be routed to another bank (T1) and continue to be operated. Cordie said the bus line was part of the PIES

program from the 1990's. All new transformers will be installed in the coming years. There will not be a spare. TDA doesn't want to have a spare since most of the oil leaks have come from idle spares. T1 will be the "spare"

4.2.4. JDA Arc Flash requirements. Zyndol reported there are six pumps and there are three on each line. "While the XJ Breakers issue itself hasn't been resolved yet, I have good news regarding its potential impact on the JDA-N AWS pumps' operation. JDA Operations assured me that there is a way of connecting another line, when the line providing power to JDA-N AWS needs to be briefly OOS for the MUs switching. It is a little more work, and we need to have most of the 6 pumps available, but that solution eliminates any potential JDA-N AWS outages resulting from this issue. In summary, after one short, 5 minutes outage of a couple of JDA AWS pumps at night, back in March 2014 there has been no other instance, when the pumps were OOS. Therefore, the JD Arc flash issue has been resolved and it can be finally removed from the FPOM agenda

4.2.5. JDA-N AWS pumps. Five out of six pumps are available. Pump 4 is unavailable and will remain so until March. The lower bearing issue is the current issue on pump 4. It is believed to be a design problem with all of the pumps. Pump 4 is currently under a third party review. Lorz asked if there have been improvements made to the monitoring program so problems can be detected before the pump completely fails.

Update provided by N. Richards via email:

1) Finalizing the Failure Report from the objective 3rd party- result point to design issue (this was a performance specification contract)

2) USACE will go back to OLSSON thru Partnering and see if they will fix them (\$3 million estimated for all 6)

3) If not, CT will furnish a Cure Notice.

I appreciate the question about turning the pumps off before they fail and have asked that very question. USACE would recommend implementing that in a heartbeat if we could but the temperature spike occurs in a second and the heat is so much that the failure is immediate. The team is discussing interim measures to reduce the risk that would have to be approved by USACE Contracting & Olsson. Stay tuned!

4.2.6. JDA TSW removal date. Just a heads up. The TSW will be removed on 28 August as per FPP guidelines. Spill volume will be held the same even without the TSWs in operation. Lorz asked if these are the permanent TSWs. These are the permanent TSWs but these are not a push button operation.

4.2.7. JDA spill gate inspection 8-19 September.

4.2.8. NWP ROV inspection dates/results. JDA inspection on 5 August. No problems. TDA inspection on 4 August. Both ladders looked good. Cordie said the lamprey plates could not be inspected because they are in the lower ladder where the ROV can't get to. Fredricks would like to hear if there are any issues with the attachments once those sections can be inspected. BON inspection occurred 6-7 August. Everything looked good but the north monolith wasn't inspected because the ROV broke. Fredricks asked if BON intends to inspect the north monolith because there are concerns with the triangle section and monolith. Hausmann said they could once the ROV comes back. Fredricks would like to consider an inspection depending on when the ROV comes back. **ACTION: Hausmann will propose an inspection of the north monolith once the ROV is back if it is before the start of the fall Chinook run.** Zorich asked if BON could add the entrance of the LFS when conducting the ROV inspection in the future.

4.3. Research/FFDRWG updates. Approval letters, permits, etc located at www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html

4.3.1. FGE testing. Rerecich reported NWP FFDRWG was yesterday. There was concurrence for moving forward with a proof of concept to further investigate flow control for the PH2 gatewells.

4.3.2. CRITFC AFF PIT tag detector. (J. Fryer) Postponed until September.

4.3.3. Mort collection at BON. Lujan reported that he wanted to look at lamprey since there is great interest in raising them. He said he has looked at about 30 from BON and they appear to have furunculosis. He has collected the other mortos to see what is occurring with salmon. He has looked at shad for a number of years but now want to add salmon to see if they carry similar diseases. He has looked at eight salmonid mortos. He prefers them fresh since he is looking for a fungus and sometimes needs to grow it to have enough to see with a microscope. Fredricks said whoever transports the fish needs to have a note from the person who collected the fish so there is coverage. Lujan said he will send a fish health report for FPOM to review. Fredricks said he would appreciate that as it might help figure out the mortalities occurring at the AFF. Lujan said last year he figures the fish may have been nicked enough to allow bacterial growth but the run occurred during the furlough so his sampling was limited. He hopes to be at the dam to take a look at the quality of fish this year.

4.4. RCC update.

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)
LWG	27	29	29
MCN	165	145	143
BON	168	149	148

4.5. Lamprey updates.

4.5.1. JDA-N is passing a lot of fish. BON counts just passed 100,000 lamprey. This includes the daytime, nighttime, LPS, and research counts. This is the largest count since the adjusted count was started in 2010. The LFS has seen about 500 lamprey for the year with a high of 68 fish in one day. Counts dropped in early June and stayed low the rest of the season. Bettin asked if the LFS can be turned on/off daily. Zorich said the AWS is programmed to be low during the day and up to 80% at night. The PLC is programmable but right now they are conducting research so they don't want to mess with it yet. Lorz asked if the LFS was turned off, would there need to be a salvage. Zorich said water could be run through the system without the attraction flow. Hausmann said as tailwater drops the bubble curtain gets to be more significant. He suggested turning the LFS off. Fredricks said he would check on it tomorrow (15 August).

4.5.2. BON BI Serpentine weirs. More video being collected.

4.6. Avian.

4.6.1. Task Group met on 1 July. Updated Avian plans are due from the Projects. Updated plans are available at <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Avian%20Hazing/>

4.6.2. Fredricks asked if IHR could continue counting further into the season to be more consistent with the other projects. Fone said that would be fine, they could keep counting until 31 July. Conder added that it would be helpful to continue the counts at LMN to try to tease out potential mortality causes of research fish.

4.6.3. Hausmann asked if the table should have tailrace only for foraging birds. Fredricks confirmed that.

4.6.4. MCN quest to find alternative hazing methods, e.g. sound. Dugger held a meeting with Technology International Incorporated of Virginia. They reported foraging birds were not deterred by infrasound. Also, the amount of infrasound generated from spill would massively swamp anything they could generate with their device. The airport found infrasound was useful on non-motivated, non-foraging birds. Additional audible sounds will be further considered.

4.7. Critical Infrastructure. *Presentation of the spreadsheet in the fall.*

4.8. BPA updates. No transmission updates. LWG is on schedule.

5. **Long term coordination process ideas.** (Hevlin). Hevlin noted that there was some discomfort with actions at LWG. The action had been coordinated in Appendix A. Setter said the Project was trying to take advantage of an outage already planned but perhaps the language wasn't clear. Part of the issue was the contractor came back saying they couldn't meet the time requirements proposed by NWW. She understands the difficulty in tracking some of these types of coordination. Hevlin said he didn't have a problem with the timing but it seemed like the contracts are being worked on too close to the work window. He asked why contracts couldn't be worked on earlier. Setter voiced frustration with contracting and the lack of ability to get contracts out in a timely manner. Bettin suggested that FPOM dropped the ball on the LWG issue since it had been in Appendix A since March.

5.1. Fredricks asked if the short-term coordination issues in NWP are contract related. Setter jumped in and said NWW had things come up that doesn't allow for two or even a one week coordination. She feels the FPP language needs to be updated. Fredricks said emergencies are covered in the FPP but some of these are turbine issues that have been worked on well in advance.

5.2. Bettin said it would be useful to look at the turbine maintenance and making modifications to reduce outages while still allowing work to continue. This will be more critical with the increased numbers of salmonids passing. He stressed that the window of opportunity we currently have may not always be there in the future. He is looking internally to see what might be done to minimize outages and impacts.

5.3. Lorz said he understands the time constraints but he wants to see more flexibility from the Action Agencies for changing operations to reduce impacts to fisheries. Van dyke echoed his comments. He also noted that it can be difficult to find the history on what and why decisions were made in the past.

5.4. Klatte and Setter committed to trying to do better with coordination and allow for greater review time. If the issue is contracting, they would appreciate help raising the concerns to upper management.

5.5. FPOM would like a list of MOCs applicable to the near future at each meeting. The Fisheries Calendar could be used. Klatte will mull this over and then assign the work to Mackey to come up with a solution.

6. **TDA-N Fish Count window improvements.** (Cordie/Dalen). A handout was provided and is available on the website. Cordie explained improvements are needed to increase visibility to improve video counting. Dalen and Cordie discussed their plan, as laid out in the handout. Fredricks would like to see the painting be battleship gray. Cordie said the painting would be inside the crowder box. Fredricks said he doesn't want to see bright colors and believes that the bright colors would create more scatter and potentially scare fish. Rerecich asked how fish rejection would be evaluated. Cordie said they would ask the fish counters. Fredricks said he would like to pursue better video rather than brighter lights. **FPOM concurred with making the following improvements at TDA-N only. If they prove successful, there may be concurrence to do these improvements at other projects but not right now.**

6.1. Video counting at TDA-N. **Yes.**

6.2. Paint the crowder. **Go with battleship gray. May test other colors but start with gray.**

- 6.3. Add more light. **Maybe, if shielding the camera and lightening the floor and crowder do not work. .**
- 6.4. Shield the camera. **Yes.**
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7. **ODFW request to use the AFF.** Jones reported on the meeting with the AFF researchers and Rerecich. The outcome was that as long as ODFW did not impact the other researchers, there wasn't opposition. Rerecich confirmed NWP is ok with moving forward with the action. **FPOM concurred with the use of the AFF by ODFW this fall.**
- 7.1. WDFW AFF report. <http://wdfw.wa.gov/publications/01595/>
8. **Coordination/Notification forms (need concurrence).**
- 8.1. 14TDA09 Spill test. (moved to the task group discussion following FPOM)
- 8.2. 14IHR 08 Spillbay 9 Cables Repair. Fone reported the stop logs need to be installed and the bay dewatered. Work would begin next week. Spill would continue but the pattern would be altered to account for the closed bay. Wills asked what caused the problem and can it be prevented in the future. Fone didn't have an answer but will investigate it. **FPOM preferred the one stop be moved to bay 10.**
- 8.3. 14 LMN 02 Unit 5 Exciter Repair and Testing **Revision #2.** Moody said the work is going to be done from 8-12 September. Hevlin said he didn't figure there would be a problem and asked that NWW keep track of the counts. **FPOM concurred.**
9. **Fish Passage Plan:** The 2015 FPP draft sections and change forms are online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2015/index.html>.
- 9.1. Pending change forms - 2015:
- 9.1.1. **15BON001** – A-Branch Diffuser Setpoints. **Approved.**
- 9.1.2. **15MCN002** – Work Near Fishway. **Pending.** NWW cannot support this language change at this time. Fredricks strongly disagrees with NWW. Fredricks and Setter disagreed on whether construction projects have been coordinated through FFDRWG and other environmental compliance routes. Setter said the claims about noise are pure conjecture. Klatte made it clear that NWP would not be joining in this battle. Setter said she is against putting language in the FPP that doesn't get implemented. Fredricks said it does get implemented and often. He said it is a trigger for more discussion. Dugger said most construction isn't going to cause avoidance for fish. He said he doesn't ever remember such a thing coming up for NWP. Lorz jumped in and said it happens all the time and it is important. One example for NWP is the BI bridge replacement. Setter has no support in NWW for the language and she was tasked with bringing back the justification for the language.
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- 9.1.5. **15LGS002** – Unit 1 Low Flow Operation. **Approved.** Wright explained that this is a clarification due to annual confusion with the U1 operation.
- 9.1.6. **15LGS003** – Work Near Fishway. **Pending.** NWW cannot support this language change at this time. Much of FPOM strongly disagrees with NWW.
- 9.1.7. **15LMN001** – Work Near Fishway. **Pending.** NWW cannot support this language change at this time. Much of FPOM strongly disagrees with NWW.
- 9.1.8. **15LWG001** – Work Near Fishway. **Pending.** NWW cannot support this language change at this time. Much of FPOM strongly disagrees with NWW.

- 9.1.9. 15AppD001** – JDA Tagged Lamprey Release. **Pending.** Most of FPOM is ok with this but Lorz would like to check with McIlraith before final approval. Forebay is fine, the verification is for release in the navlock. Zorich said this change form would just allow continuation of what is currently occurring.
- 9.1.10.15AppJ001** – BON, JDA Temperature Protocols. **Approved.**
- 9.1.11.15AppJ002** – MCN JFF Protocols >70°F. **Pending.** Dugger had concerns about using the sample holding tank.
- 9.1.12.15AppL001** – Avian Monitoring & Deterrence Plans (Setter) (*draft in development*)

10. Task Group Updates.

- 10.1.** BON Ops. (Lorz) **Met on 25 June at 1100. Need to approve meeting minutes.**
- 10.2.** Avian task group. (NWW). Team members include: Cordie, Dugger, Fone, Fredricks, Hausmann, Madson, Roberts, Setter, Skidmore, Trachtenbarg, Zorich, and Zyndol. Meeting held on 13 May. **Met on 1 July. Need to approve May and July meeting minutes.**
- 10.3.** TDA split flows. (Cordie) Team members include: Bettin, Cordie, Fredricks, Klatte, Lorz, Mackey, Rerecich, Stansell, Wills. Met on 15 May. Next meeting is immediately following the 12 June FPOM meeting. **Need to approve May meeting notes.**
- 10.4.** AFF mods (Rerecich). Team members include: Benner, Fredricks, Lorz, Mackey, Meyer, Rerecich, Royer, Stephenson, Traylor, and Whiteaker. Appendix G will be modified to reflect the recommended raking level and the recommended water elevation.
- 10.5.** Pinniped Task Group. (van der Leeuw). Will re-start in September.
- 10.6.** NWW construction caused impacts to fishways task group. (Setter and Conder). Team members include: Conder, Cordie, Fredricks, Hevlin, Lorz, Setter, and others as needed.

- 11. TDA spill bay 9 v 10/11 funding.** Klatte explained that for trunnion pin in bay 9, there needs to be an evaluation, contract, etc. Cordie asked Ebner to add an evaluation of egress conditions from Bay 9 and from Bays 10/11 to the ERDC schedule. Klatte would like to have prioritized list after ERDC so he can pursue additional funding. **FPOM stressed that all the bays need to be repaired.** Cordie added that the spill crane is critical to maintaining bays 1-8.