

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 13 August 2015 FPOM meeting.

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

<b>Last</b>	<b>First</b>	<b>Agency</b>	<b>Email</b>
Bailey	John	NWW	<a href="mailto:John.c.bailey@usace.army.mil">John.c.bailey@usace.army.mil</a>
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Bettin	Scott	BPA	<a href="mailto:swbettin@bpa.gov">swbettin@bpa.gov</a>
Burgess	Townes	NWW	
Clinton	Patti	NWP	
Conder	Trevor	NOAA	
Cordie	Bob	NWP-TDA	<a href="mailto:Robert.p.cordie@usace.army.mil">Robert.p.cordie@usace.army.mil</a>
Doumbia	Julia	BPA	
Fielding	Scott	NWP	
Fone	Ken	IHR	
Fredricks	Gary	NOAA	<a href="mailto:Gary.fredricks@noaa.gov">Gary.fredricks@noaa.gov</a>
Gibbons	Karrie	NWP-FFU	
Hausmann	Ben	NWP-BON	<a href="mailto:Ben.j.hausmann@usace.army.mil">Ben.j.hausmann@usace.army.mil</a>
Hevlin	Bill	NOAA	<a href="mailto:Bill.hevlin@noaa.gov">Bill.hevlin@noaa.gov</a>
Hockersmith	Erick	NWW	
Kiefer	Russ	IDFG	
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Bailey, Burgess, Clinton, Fone, Hockersmith, Kiefer, Martinson, Petersen, Sears, Spurgeon, van der Leeuw, van Ness called in.

**August birthdays include:  
J. Randall, N. Richards, and P. Keller  
HAPPY BIRTHDAY!**

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 meeting minutes approved with edits.
- 1.2. TDA ITS ogee modifications. Cordie said a temporary fix is being installed and it may be a permanent fix. This will be removed from the agenda. If TDA decides to move forward with this, it should go to NWP FFDRWG.
- 1.3. TDA-N rock wall. Fielding reported that the PDT is about to finish the 90% DDR. He wants to know if FPOM wants to review the DDR. FPOM said yes they do want to review.
- 1.4. JDA inspection of orifices. Until all of the fixes are completed, it may be possible to inspect the orifices through the light tubes to make sure water is flowing through there. If this is possible, it needs to be added to the daily inspection sheet.
- 1.5. **Coordination/Notification forms (need concurrence/discussion)**
  - 1.5.1. BON MFRs 15BON54-69. *No comments.*
  - 1.5.2. TDA MFRs 15TDA10-11. *No comments.*
  - 1.5.3. Revised 15TDA05 Railroad rail removal. *Pending.* Fredricks has concerns about the MOC and doing the rail work over the TDA-E exit. Fredricks would prefer the approach not be done in July; he would prefer November. Lorz agreed that October or November would be preferred.
  - 1.5.4. 15TDA08 transformer installation. *Approved.*
  - 1.5.5. 15JDA08 MFR lamprey mort. *No comments.*
  - 1.5.6. 15JDA09 MFR Sturgeon in MU15. *Comments in the MFR and posted to website.*
  - 1.5.7. 15IHR10 Turbine Priority Change for Research Equip Install/Removal. *Approved.*
  - 1.5.8. 15 IHR11 Turbine Unit Priority – Low flows. *Approved.*
  - 1.5.9. 15 IHR12 Stilling basin hydrographic survey. *Approved.*
  - 1.5.10. 15LGS09 Digital Governor work. *Pending.* FPOM had concerns about the timing of this work and recommended delay until after spill season. If that is not possible, do not start work until after 10 AM.
  - 1.5.11. LGS pumps. Lorz provided comments to Setter. FPOM discussed the idea of finding an alternative to renting pumps every year.
- 1.6. **FPP change forms.**
  - 1.6.1. 15AppG002 – Lamprey Trapping at >70°F. *Not approved.*
  - 1.6.2. Appendix B – clarification for when transport moves to truck transport. *Approved.*
  - 1.6.3. 15BON011 - Split flows. *Approved.*

1.7.

**2. Action Items**

**2.1. NWW Action Items**

- 2.1.1. [Jul 15] 15 LWG 015 Fish Barge Schedule Change. **ACTION:**Wright will work with Bailey to get the FPP language changed to a date range so this will not be an issue in future years. **STATUS:** *change form submitted.*
- 2.1.2. [Aug 15] MCN fish pump 2 crack. **ACTION:** Setter will ask J. McDonald to attend the September FPOM to discuss this further.
- 2.1.3. [Aug 15]LWG Construction update. **ACTION:** Setter will take the FPOM concerns back to NWW FFDRWG.
- 2.1.4. [Aug 15] LGS temperature profile. **ACTION:** Burgess will investigate replacing the thermometer with a logger.

## 2.2.NWP Action Items.

- 2.2.1. [Jul 15] Video counting. **ACTION:** Wertheimer will show video and provide a list of stations where video could go now. **STATUS: complete.** These are the 8 - count stations we have as potential video only station's: TDA-N, JDA-N, IHR-N, IHR-S, LMN-N, LMN-S, LGS, LWG
- 2.2.2. [Jul 15] BON ITS gates. **ACTION:** Hausmann will conduct the test of dropping 1A to 68' and leaving 1B at 70'. **STATUS: gates are currently in this position.**
- 2.2.3. [Jun 15]TDA adult flows. **ACTION:** Mackey will schedule a separate meeting to further discuss this issue after the UI report is available and reviewed.
- 2.2.4. [Aug 15] TDA-N rock wall. **ACTION:** Fielding will send the DDR to FPOM.
- 2.2.5. [Aug 15] Rerecich would like to schedule a special NWP FFDRWG for FGE. **ACTION:** Rerecich will coordinate a time.
- 2.2.6. [Aug 15] Pinniped Task Group. **ACTION:** Wertheimer and van der Leeuw will schedule a meeting with the Pinniped Task Group.

## 3. Updates

### 3.1.NWW Updates.

#### 3.1.1. Upcoming maintenance/construction/research activities.

3.1.1.1. LWG Doble testing. Testing will be completed on 14 August. Lorz asked if it would be a problem to push this testing back a couple weeks next year. Moody said this schedule has been modified over the years and this timing seems to be the best for the project. Further modifications may be made but those will need to be worked out early in the year.

3.1.1.2. NWW FPOM OUTAGES schedule. Mackey fixed the website link. Setter talked through the changes from last month.

3.1.2. MCN log bronc. The log bronc has been delivered but does not yet work. The Project will be completing some repairs.

3.1.3. MCN fish pump 2 shaft crack. This is a big concern. Setter provided photos. Fredricks would like to have more discussion about the appropriate corrective answer. There is no redundancy for this ladder due to on-going maintenance. **ACTION: Setter will ask J. McDonald to attend the September FPOM to discuss this further.** Fredricks said this is an on-going problem. He didn't want to take more time at FPOM, but he would like to have a separate call. FPOM expressed concerns about the condition and reliability of the pumps within the basin.

3.1.4. LWG construction update. All fish screen slot plugs are expected to be filled by the end of the September. Still core-drilling at night, some core-drilling may occur during the day with noise monitors on-site. Lorz and Fredricks said the vibration is important. Morrill asked how to measure the vibration; Conder said there are devices that can be placed on the wall to measure vibration. Conder would like to know if vibrations can be detected before the drilling starts and what shows up during the drilling. **ACTION: Setter will take the FPOM concerns back to NWW FFDRWG.** Kiefer noted that comments are due back to Trachtenbarg on the updated outfall schedule.

3.1.5. RSW status. As of 8 August, all Snake River spillway weirs are not operating. Baus explained the various reasons for the operations at the four dams. Conder said NOAA would like the protocols lined out more so if the low flow becomes the new "normal", changes can be made more efficiently. Wright noted that we have change forms to be approved at the meeting today. Lorz said he would like to see notification added to the change form. Baus and Lorz had differing opinions about

notification needs. Bettin proposed the appropriate notification forum might be TMT. Lorz was agreeable to that. Setter suggested project weekly reports could include the information as well. Wright said we need to discuss what triggers would be used for toggling on and off and what triggers would shut the RSW for the entire season. After further discussion, Wright said anyone can access the spillbay operation at <http://www.nwd-wc.usace.army.mil/tmt/documents/ops/spillbay/>. Interested parties can see if a spillbay is open or closed at anytime.

- 3.1.6. Upcoming MOC for PUD turbine at MCN. There are cracks in the blade. The turbine will need to be unstacked, repaired, and restacked. Martinson is bringing this to FPOM since it is within 50' of the ladder. The work will be from November 2015 – February 2016. Fredricks asked about the overlap with the Oregon ladder. Martinson said the ladder will not be out due to the turbine work, the AWS flow will just need to go through the other route. The MOC will include details about fish impacts and other work that may overlap with this work.

### 3.2. NWP Updates

- 3.2.1. Upcoming maintenance/construction/research activities. Includes already coordinated MOCs.
  - 3.2.1.1. 15BON02 T11 and T12 outages. No update.
  - 3.2.1.2. 14BON83 WS Fish View Building roof. Hausmann said there may be an additional 4 day delay – extends into September.
  - 3.2.1.3. 14BON84 ITS end gate and WG1. PH1 ITS RTS at 1500 on 10 August. WG1 dives were successful and the gate was recovered. The gate is expected to be reattached this week.
  - 3.2.1.4. Mid-season ROV inspections.
    - 3.2.1.4.1. BON – found a couple of issues with diffuser grating at CI. Looks like grating is caved in, as if something was dropped on it. The grate is still in place but it pulled the bolts up. The grate is located toward the fish lock.
    - 3.2.1.4.2. TDA – inspection on 4 August. Everything looks good. A few grating panels were not tight together but nothing serious. Couldn't determine any issues with the weirs and guides with the ROV. That area will be dewatered during winter maintenance. For the entrance weirs, wheels have been replaced with high density plastic. The guides take more time than expected. The fishways are maintaining criteria.
    - 3.2.1.4.3. JDA- inspection on 3 August. No problems were found. Zyndol said he recommends using the NWP Dive shop since their ROV has SONAR.
- 3.2.2. BON 12<sup>th</sup> FOG. One FOG is out for maintenance. Hausmann will note which one is out in the weekly report. All FOGs are going to be cycled out for maintenance. Need a spare FOG.
- 3.2.3. TDA spill bay 9 trunnion pin. Cordie reported that Small Projects has decided they can do some work if there is still funding.
- 3.2.4. TDA ITS ogee modifications. Cordie said this can be removed from the agenda. Fredricks asked if this could go to NWP FFDRWG. Cordie said a temporary fix is being installed and it may be a permanent fix. **This will be removed from the agenda. If TDA decides to move forward with this, it should go to NWP FFDRWG.** Fredricks said he would like to see a PIT tag detector in there and see some hydraulic data for the ITS.

- 3.2.5. TDA-N rock wall. Fielding reported that the PDT is about to finish the 90% DDR. He wants to know if FPOM wants to review the DDR. FPOM said yes they do want to review. **ACTION: Fielding will send the DDR to FPOM.**
- 3.2.6. JDA inspection of orifices. Zyndol reported that the PM to inspect the orifices has been added. He said this is a larger job than anticipated. The orifice plates have to be removed and that takes a day plus a crane crew to get to the orifice assembly that needs to be inspected. JDA is still working on a gate position indicator. U12 may be the first unit to have the indicator installed. There are still some engineering details to work out. Fredricks said until the indicator is installed JDA needs to make sure all the orifices have new bolts. **Until all of the fixes are completed, it may be possible to inspect the orifices through the light tubes to make sure water is flowing through there. If this is possible, it needs to be added to the daily inspection sheet.**
- 3.2.7. JDA-N AWS pumps. There are still four pumps available. NWP is still working on repairs. Rerecich said this will be on the next FFDRWG agenda. Lorz asked who is responsible for scheduling those meetings now. Tackley is the NWP FFDRWG coordinator.

3.3. Research/FFDRWG updates. [www.nwd-](http://www.nwd-)

[wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html](http://wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html)

3.3.1. Rerecich reported that the AFF report should be out once comments are addressed.

3.3.2. Rerecich would like to schedule a special NWP FFDRWG for FGE. **ACTION: Rerecich will coordinate a time.**

3.4. RCC update.

**Table 1. RCC flow forecast.** Bettin said there will be a drop between August and September.

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Peak
LWG	20.7	22	22	24 on 14 Aug
MCN	145.3	132	122	137 on 18 Aug
BON	130.4	133	128	137 on 19 Aug

- 3.5. Pinniped Update. van der Leeuw reported the final 2015 field season numbers. January - May salmonid passage was 239,000; expanded consumption was 9,981 or 4% of the run. Adjusted consumption is 4.3%. This year is higher than the average year. Sturgeon consumption was low with 39 white sturgeon consumed. 196 lamprey consumed, which is about average. There is at least one branded sea lion and at least two sea lions in the BON forebay. ODFW plans to trap in the forebay in late September. There are reports of sea lions in the BON tailrace, these are likely Stellars. Wertheimer asked if it is appropriate to get the Pinniped TG together to review the data to decide future actions and plan for next year. FPOM agreed that it would be appropriate. Fredricks said the 2015 jack counts are low, which may predict a low Chinook run in 2016. Combine that with high pinniped numbers and it could have a significant impact. **ACTION: Wertheimer and van der Leeuw will schedule a meeting with the Pinniped Task Group.** Bettin asked about being able to remove Californias without brands. He said zoos and other places would take more animals if they weren't branded. Conder said he would take that back to Garth.
- 3.6. Lamprey updates. Night Count difficulties. Zorich explained that the nighttime counts are tending to be negative and negative in large numbers. Zorich developed a table with the issues and potential solutions. He has taken a similar table to the Accords group. van Dyke asked if the table was an exhaustive list. Zorich said it isn't and he is open to taking comments from others. FPOM discussed some potential impediments to lamprey. Fredricks asked if this information is being shared in other regional forums. There are passage issues

and count issues that need to be addressed and some of the solutions may have impacts to salmonids. Skalicky asked about the video counting and how it will be used. Zorich said the night counting of lamprey is important since that is when they move.

- 3.6.1. Wertheimer reported that FFU is exploring using only infra-red. They are finding that lighting up the count station changes fish behavior, especially nocturnal critters such as lamprey.
- 3.6.2. Morrill asked about PIT tagged lamprey. Zorich said there are no USACE projects this year but Warm Springs has been doing some work.
- 3.6.3. If there are implications to the fish counting program, any changes need to be developed sooner rather than later since the new contract will go out for bid soon.
- 3.7. Avian. Inland Avian meeting on 25 August. Fredricks asked about the JDA white pelican population. Zyndol said there are over 300 and they have been there for awhile.
- 3.8. Critical Infrastructure. Mackey will schedule a meeting to discuss TDA fish infrastructure.
- 3.9. BPA updates. Bettin hasn't had time to pare down the outage list but a couple jumped out.
  - 3.9.1. BON PH1 units 1,2,9,10 need to operate on 2 September for 115kv line work. This is close to the time we would normally have split flow. This will occur a day after the T11 outage. Bettin will do a MOC if the T11 outage doesn't cover these unit operations.
  - 3.9.2. BON PH1 one unit on a couple days in September. This should be during split flow.

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

- 4.1. BON MFRs 15BON54-69. No comments.
- 4.2. TDA MFRs 15TDA10-11. No comments.
- 4.3. Revised 15TDA05 Railroad rail removal. **Pending.** Fredricks has concerns about the MOC and doing the rail work over the TDA-E exit. Fredricks would prefer the approach not be done in July; he would prefer November. Lorz agreed that October or November would be preferred.
- 4.4. 15TDA08 transformer installation. **Approved.** T1 and T3 were switched so there would be redundancy for Fish Units. Lorz had suggested switching T1 with T7 but that would result in no redundancy for the Fish Units. Cordie would like the Bus tie is tested before it is turned over to the Project.
- 4.5. 15JDA08 MFR lamprey mort. No comments.
- 4.6. 15JDA09 MFR Sturgeon in MU15. Zyndol fielded questions about how sturgeon got into the scroll case and how JDA planned to remove them. MU15 will be dewatered on 14 August and fish will be salvaged. The delay in getting the unit dewatered was due to the lack of available roller gates and getting permission to use the spare/emergency set of tail logs. Currently there have been no mortalities seen. FPOM recommended installing tail logs for future units. Zyndol said MU16 is the next unit that may have this problem. Fredricks suggested keeping the blades flat and using a slow roll on start up. Bettin suggested a tail log sized screen to keep sturgeon out during the governor work. ODFW and WDFW expressed appreciation for the efforts being made.
  - 4.6.1. ODFW and WDFW asked about getting on-site to sample sturgeon. Mackey explained that the goal of Project Fisheries is to get fish from the turbine and back to the river is as short of time as possible. If the States want to get the fish before they get back to the river then they need to provide a tank and be prepared to take ownership of the fish without impacting maintenance and fish salvage activities.
- 4.7. 15 IHR10 Turbine Unit Priority Change for Research Equipment Install/Removal. **Approved.**
- 4.8. 15 IHR11 Turbine Unit Priority – Low flows. **Approved, with changes.** *Unit priority order for multiple unit operation will be unit 1, 6, 4, 3, 2, 5. If unit 1 is out of service and line switching has not occurred, unit priority order for multiple unit operation will be 2, 6, 4, 3, 5. This is just for 2015. A change form for the FPP has not been developed. FPOM would like*

to see a kcfs included so if flows increase, the original priority would be used. After further discussion it was determined that the teletype can be revoked rather than trying to figure out the language in the MOC.

- 4.9.** 15 IHR12 Stilling basin hydrographic survey. *Approved.* Units 1 and 2 will be the only two units available.
- 4.10.** 15LGS09 Digital Governor work. *Pending.* FPOM had concerns about the timing of this work. Request to move work after spill season, if that is not possible, start work after 10 AM *Update: Below are follow ups from the discussion regarding timing of the Little Goose Unit 2 digital governor tests (15 LGS 009) at yesterday's (August 13) FPOM meeting. Postponement of this work until after September 1 was not feasible due to tight schedules and other constraints under this contract, including when project support was available. Contractors and equipment have already been mobilized. Postponement of this work will potentially delay the return to service of Unit 2 into the start of adult steelhead and adult Fall Chinook migration. A postponement may also lead to the rescheduling of other planned digital governor installations under the current contract. Starting Unit 2 digital governor tests after 10:00 AM, and continuing into the evening hours is very feasible. This protocol will be adapted and be implemented during these tests. Current Status of Unit 2: Unit 2 testing was discussed with contractors and engineers on August 13 and 14. Changes in this activity was coordinated with Bill Hevlin Of NOAA Fisheries on the afternoon of August 14. The unit 2 digital governor test work window is from Monday, August 17 to Friday, August 21. Unit 2 will not be operated prior to 10:00 AM and tests will likely extend into the evening hours. Unit 1 will remain as the first priority unit when unit 2 is not in operation.*
- 4.11.** LGS pumps. Lorz provided comments to Setter. FPOM discussed the idea of finding an alternative to renting pumps every year. Hevlin provided comments about temperature graphs and where monitors need to be located. Skalicky asked if the temperature data is available. Burgess said he is a bit under-staffed but he could provide that information. There are four loggers and right now there is about a 3F difference. There is an old thermometer connected to the U1 strainers. That data will be included in the weekly report. The data from the four loggers is downloaded every two weeks and send to NWW. Moody can disburse the data to FPOM. Bettin asked if the thermometer can be replaced with a hobo logger. **ACTION: Burgess will investigate replacing the thermometer with a logger.** Conder asked how to get fish ladder temperatures that will automatically upload. Setter said that would go to the engineers/water quality folks. Setter said it may be better to find a link with the TDG group. This will be discussed at NWW FFDRWG as well.
- 4.11.1.** FPOM moved the discussion to the loss of fish between BON and MCN this year. Looking at the exits for temperature differences was suggested.

**5. Fish Passage Plan:** The Current 2015 FPP and Change Forms are online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/>.

**5.1.** Pending FPP Change Forms.

**5.1.1.** 15IHR008 – Low Flow Spill Patterns. Lorz said he would like to look at the models first. Moody said R. Laughery thought the pattern looked great. Approval will wait until after the model trip.

**5.1.2.** 15LMN004 – Low Flow Spill Patterns. Approval will wait until after the model trip. Wright noted there is no table for no RSW spill.

**5.2.** New FPP Change Forms.

- 5.2.1. 15AppG002 – Lamprey Trapping at >70°F. **No approved.** Lorz will check with B. McIlraith, otherwise FPOM was fine. Lorz came back and said the McIlraith thought there was a different change form being developed. Fredricks expressed concern about how the lamprey trap operates and he believes it could trap salmon.
- 5.2.2. 15AppB005 – clarification for when transport moves to truck transport. **Approved.**
- 5.2.3. 15BON011 - Split flows. **Approved.**
- 5.3. Potential FPP change forms.
  - 5.3.1. Digital Governor testing. Language needed about how to keep sturgeon out of the scroll case – flatten the blades after flushing the unit.
  - 5.3.2. Appendix B – Transport. Revise truck transport minimums if supported by data analysis to determine likely effects, including frequency and duration. Wagner will request NOAA Montlake to look at the data.

## 6. Task Group Updates.

### 6.1. New Task Groups.

- 6.1.1. BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team members include: Bettin, Ebner, Hausmann, Mackey, Wright.
  - 6.1.1.1. There is an ERDC trip on 21 September. Model will cost \$24K to get it up and running.
- 6.1.2. Load Shaping Guidelines (Bettin). Team members include: Fredricks, Mackey, Wright. Bettin is still figuring out if he is allowed to edit Appendix C (last modified in 1995). FPOM believes this will be delayed until next year.

### 6.2. Active Task Groups.

- 6.2.1. Adult counting. (Wertheimer and Moody) <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Fish%20Counting/>
  - 6.2.1.1. Lorz asked for a report on how TDA worked.
- 6.2.2. Condition monitoring. (Lorz, Conder). <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Condition%20Monitoring/>
  - 6.2.2.1. Team members include: Benner, Bettin, Chockley, Fredricks, Mackey, Morrill, Setter.
  - 6.2.2.2. Will meet after October FPOM meeting. Review memo and prepare to discuss.
- 6.2.3. TDA adult flows. (Cordie) <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20TDA%20split%20flows/>
  - 6.2.3.1. Team members include: Bettin, Cordie, Fredricks, Lorz, Lut, Mackey, Rerecich, Skalicky, Wertheimer. **ACTION: Mackey will schedule a separate meeting to further discuss this issue after the UI report is available and reviewed. This action is no longer needed.**
  - 6.2.3.2. Rerecich talked with UI and there were RT steelhead present during the test period. The data may help understand broad movements of fish during the test but may not help determine the more localized response near the thalweg and shelf between the north ladder and the spillwall.
  - 6.2.3.3. Still need to determine a trigger. This may not be an issue for 2015 due to the anticipated lower numbers.

**6.2.3.4.** Rerecich and Mackey will try to coordinate meetings so this is on the same day as the special NWP FFDRWG.

**6.3.** Task Groups that really want to be inactive but still have an Action Item.

**6.3.1.** AFF mods (BON Fisheries). <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20BON%20AFF/>

**6.3.1.1.** Team members include: Benner, Fredricks, Lorz, Mackey, Meyer, Rerecich, Royer, and Whiteaker. **This task group may go to inactive status AFTER an after action report is provided to FPOM.**