

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 14 July 2016 FPOM meeting.

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

Last	First	Agency	Email
Bailey	John	NWW	john.c.bailey@usace.army.mil
Baus	Doug	NWD-RCC	Douglas.m.baus@usace.army.mil
Benner	Dave	FPC	dbenner@fpc.org
Bettin	Scott	BPA	swbettin@bpa.gov
Chamberlain	Chuck	NWW	charles.b.chamberlain.usace.army.mil
Chockley	Brandon	FPC	bchockley@fpc.org
Conder	Trevor	NOAA	trevor.conder@noaa.gov
Cordie	Robert	NWP	robert.p.cordie@usace.army.mil
DeHart	Michelle	FPC	mdehart@fpc.org
Fredricks	Gary	NOAA	Gary.Fredricks@noaa.gov
Graham	Jennifer	Warm Springs	jennifer.graham@ctwsbnr.org
Hausmann	Ben	NWP	ben.j.hausmann@usace.army.mil
Hevlin	Bill	NOAA	Bill.Hevlin@noaa.gov
Horal	Robert	NWW	robert.e.horal@usace.army.mil
Huston	Makary	BPA	mahutson@bpa.gov
Johnson	Bobby	NWP	bobby.johnson@usace.army.mil
Keifer	Russ	IDFG	russ.keifer@idfg.idaho.gov
Kovalchuk	Erin	NWP	Erin.H.Kovalchuk@usace.army.mil
Lorz	Tom	CRITFC	lor@critfc.org
Mackey	Tammy	NWP	Tammy.m.mackey@usace.army.mil
Marsh	Tiffany	NOAA	tiffany.marsh@noaa.gov
Morrill	Charlie	WDFW	Charles.Morrill@dfw.wa.gov
Peterson	Christine	BPA	chpetersen@bpa.gov
Sears	Sherri	Colville Tribes	sherri.sears@colvilletribes.com
Setter	Ann	NWW	Ann.l.setter@usace.army.mil
Trachentbarg	Dave	NWW	david.a.trachentbarg@usace.army.mil
VanDyke	Erick	ODFW	erick.s.vandyke@state.or.us
Wilson	Sarah	NWW	sarah.j.wilson@usacearmy.mil
Wright	Lisa	NWD-RCC	Lisa.S.Wright@usace.army.mil
Zorich	Nathan	NWP	Nathan.a.zorich@usace.army.mil

On the phone: Bailey, Chamberlain, Cordie, Graham, Hausmann, Horal, Johnson, Kiefer, Marsh, Sears, Trachtenbarg, Wilson.

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

1. Decisions made at this meeting

1.1. June meeting minutes were approved.

1.2. LMN revised spill patterns. After consulting the predicated flows, FPOM decided to have the RSW running plus 6 stops at Bay 2 for the spill pattern.

1.3. TDA 15-mile creek. FPOM requested that ODFW will come to the next meeting with a proposal for investigating the opening the sluiceways earlier than March 1.

1.4. JDA Avian array. FPOM expects the lines to be replaced before the start of next fish passage season.

1.5. BPA Transmission line outage. A complete TDA outage scheduled for September has been moved to Dec 6 in order to avoid overnight work. There will be no impact to the AWS project and water will be spilled instead generated. **FPOM approved.**

1.6. MOCs and MFRs

1.6.1. 16TDA05 TDA-N winter outage – **Approved**

1.6.2. 16LGS13 Capacitive Coupling Potential Device – **Approved**

1.7. FPP Change forms

1.7.1. 17BON001 – Lamprey Operations Start Date (FPP change form) – **Denied** due to concerns for the potential of sea lion predation on adult salmon delayed at the ladder entrance

1.7.2. 17BON002 – Kelt Trigger Clarification (FPP change form) – **Approved**. This is a wording clarification not a change in procedure

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*

2.2. *Coordination/Notification forms (NWW/NWP)*

2.3. *FPP change forms (NWW/NWP)*

2.4. *Steelhead spawning graphs at Fifteen Mile Creek and Deschutes (ODFW)*

2.5. *Avian Task Group bird population graphs at McNary Dam and sprinkler video*

3. Action Items

3.1. NWW Action Items

3.1.1. [Jul 16] Fishway temperatures from NWP. **ACTION:** FPC and Greg Moody will send out guidelines to Portland District on the format for sending data.

3.1.2. [Jun 16] MCN debris removal - **ACTION:** NWW will a draft change form for debris removal operations to coordinate with the new log bronc capabilities. **STATUS:** McNary decided not to draft a change form.

3.1.3. [Jun 16] LWG JBS Primary Outfall Construction - **ACTION:** Trachtenberg will follow up with the chief of ops regarding information on lock-out tag-out procedures. **STATUS:** Pending until the contract is awarded but LWG is intending to follow what was outlined in the MOC.

3.2. NWP Action Items

3.2.1. [Jul 16] BON Washington Shore sockeye in the AWS. **ACTION:** Hausmann will make sure the issue is investigated during the winter dewatering.

3.2.2. [Jul 16] BON B-Branch erosion. **ACTION:** A separate MOC for the August and September surveys is required.

3.2.3. [Jul 16] BON CI Subsidence (coordinated in 16BON31) Approval was granted for altering an historic structure to install the survey markers. **ACTION:** The MOC will be updated with the final action.

- 3.2.4. [May 16] TDA AWS back-up **ACTION:** Rerecich to provide an updated MOC.
STATUS: *Rerecich will provide a coordination form in August*
- 3.3. Completed Action Items or to be discussed later in the agenda.
- 3.3.1. [Jun 16] MCN Avian Abatement. **ACTION:** The FPOM Avian Task Group will meet after the July FPOM meeting. **STATUS:** *completed.*
- 3.3.2. [Jun 16] LWG Adult Fish Facility mortality reporting. **ACTION:** Setter to make sure this is covered in the weekly reports and include it as an update on the FPOM agendas.
- 3.3.3. [Jun 16] Lamprey updates. **ACTION:** Zorich to add Swank to the LPS count list.
STATUS: *completed.*
- 3.3.4. [Jun 16] BON T11/12 outage. **ACTION:** R. Walker will send the MOC to N. Richards.
STATUS: *completed.*
- 3.3.5. [Jun 16] BON CI Subsidence. **ACTION:** Royer to draft a MOC and include the survey markers picture. **STATUS:** *completed. 16BON31 CI Survey markers.*

4. Updates

4.1. NWW Updates.

- 4.1.1. LMN revised spill pattern. Setter recapped that an MFR was sent out due to the failure of spill bay 2 with a revised spill pattern. The project believes that spill bay 2 can return to service with some maintenance testing. Wilson reported that the repairs were completed and now the gate needs to be tested to make sure the limit switch functions properly. Maintenance needs to open the gates beyond the normal range in order to make sure the cables are laying correctly on the gate surface. The test would take place early in day for 1-1 1/2 hrs. It would not be possible to keep the current spill pattern for this. Currently, all spill gates are operated manually because while making modifications to the spill gates, some safety redundancies were taken out. This was the problem at spill bay 2 and the project is looking to stop a reoccurrence at any other spill gate. Bettin asked when the gates will be fixed because the project will not be able to maintain the spill percentage with manually operated gates. Wilson replied that it will take one day per gate to install the secondary limit switch and return to remote operation. The testing will take place in August. Conder added that it would be better to do the test in the early afternoon for adult passage. Wilson agreed to the timeframe. Bettin questioned if there is enough water to do what he is proposing. Wilson will coordinate with RCC. **After consulting the predicated flows, FPOM decided to have the RSW running plus 6 stops at Bay 2 for the spill pattern.** Bay 2 will return to service and be remotely operated immediately after testing. No other bays will be tested until the limit switches are installed.
- 4.1.2. BPA MCN outage. No updates.
- 4.1.3. LGS Roof repair – August 2017. The contractor is now focused on August as the only month to do this work instead of the June through September timeframe.
- 4.1.4. LGS cooling pump emergency operation. - The contractor started July 1 which was one day late. They are now running. The outfall of one pump was corrected and a shade cover was added. The pumps are refueled once a day in the afternoon between 2 and 4 pm and have to be shut down for fifteen minutes during this process.
- 4.1.5. LWG cooling pump operation (Pinney). Pinney has been sending weekly reports to Mackey and she posts them on the FPOM website. No noise problems to report. In the future, shad might be a problem although the numbers are not as high as last year. The project may have to go to operations similar to last year.
- 4.1.6. LWG Adult trap mortalities. On July 10 a five day old mort was found in a small pocket behind PSMFC building. It was assumed it jumped between a handrail and an existing jump barrier. When installing a net as protective measure, a second chinook mort was found in the recovery portion of the tank with several shad morts. On July 12, another mort was found in

the area of the first patch job. With the high shad numbers, there is a concern about possible overflow from dead shad clogging the screens. The jumping fish are located in the turn pool of ladder and jumping back downstream. There is a possibility that this is caused by the enormous amount of shad stacking up in that location. The ladder is operating as normal with no new equipment. The net is a short term solution and something more permanent will be installed this winter. Conder pointed out that this seems like an obvious problem with the trap. However the adult trap sort-by-code loop is closed via the turn-pool swing gate during the weekend for the sound/vibration passage monitoring study. Marsh explained that the exit ladder is open while the trap is running and shad can fall back down. The trap may have to be dewatered every night due to shad build up.

- 4.1.7. MCN spill pattern – Setter said the last discussion of going to ERDC in the October was at the May FFDRWG meeting. Setter will talk with Ryan Loughery and look into setting a date for the trip. The project will continue the current spill pattern. Lorz mentioned staying with one spill load instead of a percentage if the integrity of the spill gates is that unsure. Setter said that the main concern was not for imminent failure but for maintenance on wire ropes and guides since the spill pattern has the gates moving nine or ten times a day.

4.2. NWP Updates:

4.2.1. Upcoming maintenance activities

4.2.1.1. FGE Mods. *Continuing as coordinated.*

4.2.1.2. BON T11 / T12 (coordinated most recently in 16BON14). *Continuing as coordinated.*

4.2.1.3. BON LFS repairs. (Coordinated in 16BON11) *Continuing as coordinated.*

4.2.1.4. BON CI Subsidence (coordinated in 16BON31) Approval was granted for altering an historic structure to install the survey markers. **ACTION: The MOC will be updated with the final action.**

4.2.1.5. TDA Back up AWS. Scheduled for this winter.

- 4.2.2. BON B-branch survey. The hydro survey was completed and pictures were sent out. The project is still waiting on the sonar and will send it out as soon as possible. There will be a request for an August survey. The area was spray painted by boat as a marker for erosion because it is not possible to walk out there safely. The project would like to do the next survey during the ROV inspection outage and the next one after spill stops in September. However the attraction spill from Bay 18 will also have to shut down in September. Lorz said that he has the same comments as before but begrudging allowed. **ACTION: A separate MOC for the August and September surveys is required.**

- 4.2.3. BON Washington Shore sockeye. Fredricks wanted to be assured that during the next dewatering this entire area including measuring the height of the picket leads and looking for possible holes will be done. Hausmann said when the modifications were made to the picketed leads, he measured the space personally. The leads have not moved and they flat bar welded to the bottom. Hausmann doesn't believe the fish are squeezing under the leads but thinks they might be coming in behind crowder. They are investigating a connection between crowder to AWS but it is unclear what exactly the problem is. Fredricks stressed that he would like to be updated on the situation. Setter suggested the December FPOM be held at Bonneville with a field trip to see the crowder area. **ACTION: Hausmann will make sure the issue is investigated during the winter dewatering.**

- 4.2.4. TDA 15 mile creek. Cordie reminded the group that before there was not enough data to open sluiceways for Fifteen Mile fish. However, ODFW now has more data and provided two graphs. The first is a comparison of 40% fish returning to spawn at the Deschutes with only 5% returning to Fifteen Mile. The second was overlaying the sluiceway outages with dates of spawning. Sluiceways are closed when fish are first ready to spawn. Fredricks had concerns about how the data was collected and how many data points. **FPOM requested**

that ODFW will come to the next meeting with a proposal for investigating the opening the sluiceways earlier than March 1.

4.2.5. JDA-S AWS turbine update: No representative from John Day was available but Mackey said that the project is looking to get a PDT for south AWS. The process is slower than expected but incremental progress is being made.

4.3. Research/FFDRWG updates. www.nwd-

wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html : No updates from Portland. Trachtenbarg said on Tuesday, July 19 there is a debriefing for JFF design issues and construction challenges.

4.4. RCC update.

Table 1. RCC flow forecast

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Peak and date.
LWG	35.8	34	33	36 7/15/16
MCN	159.5	153	157	171 7/15/16
BON	151.6	157	161	174 7/15/16

4.5. Wright gave an update on Little Goose TSW removed on July 11. Chinook and sockeye numbers increased dramatically in the hour after removal. Setter said that by 2018 there will be an adjustable spill way weir to address the passage problems. For 2017, there is concern of adding to many directions to the Fish Passage Plan so that operators won't be able to figure out the plan. Instead of rushing a change form, Kiefer feels that the best path forward is set up a task group about LGS summer operations.

4.6. Pinniped updates. (Zorich) There are two sea lions in forebay and one in the tailrace of BON but it is unknown if it is the same or different animals.

4.7. Lamprey updates. (Zorich) All LPS are running at BON and passage numbers are higher than the ten year average. The mortality is under 1% but it is unknown if it is higher or lower than last year.

4.8. Avian.

4.8.1. TDA avian (Cordie) There are many more pelicans than gulls and they are lining up along the end of the spill wall to feast on juvenile salmon. USDA is not allowed to haze pelicans. There is a need to do an overview of the population of pelicans, assess impact and review the existing guidelines on hazing. TDA lost an avian line nearest to the bridge but is waiting until after the season to fix. No birds have been observed at the powerhouse where the avian line grid was lost and most but not all of the lines were salvaged. The project therefore does not see a reason to fix the rest of that grid. On the lethal removal issue, Griffith is looking into the issue and he plans to eventually come to FPOM and give update.

4.8.2. JDA avian array (Zyndol) Mackey said that the project will not replace the lost lines this Fiscal Year because JDA did not request the funds in time for contracting to be successful. This does not affect the PDT. **FPOM expects the lines to be replaced before the start of next fish passage season.**

4.8.3. MCN Avian (Setter) Discussed in the task group after the meeting.

4.9. BPA updates. Bettin – The transmission outage scheduled for July 11-17th at BON has been canceled but a similar one on July 19th for one unit on the first powerhouse to support transmission lines work has been scheduled. A complete TDA outage scheduled for September has been moved to Dec 6 in order to avoid overnight work. There will be no impact to the AWS project and water will be spilled instead generated. **FPOM approved.**

5. **FPC Temperature tracking.** (Chockley presentation) Setter thanked FPC for working with Walla Walla District on distributing the temperature data that they collect. Chockley gave a presentation to the group on their website www.fpc.org/river/watertemp.html. Walla Walla District dams collect temperature data via hobo loggers at the entrances and exits of each ladder and then sends the data to

FPC. The data is received once a week and the website could be up to a week behind. Chockley demonstrated how to query data and use the tools of the website. Setter explained the process and the challenges of this system. There was an efforts in the 2000s to get temperature data but it was dropped. FPC continues to work on the challenges of bad data issues and working on formats that are read by a computer not by a human. The location of the hobo is very important depending on shade, diffusers and other consistency issues. Bettin questioned the usefulness of this data. Setter explained that Walla Walla has an ongoing effort to collect this data but no way to distribute the data to fish managers and the general public. Fish managers use this data to make operational adjustments. DeHart said that it would be very easy to add Portland District and Mackey requested Portland District bios to comply. **ACTION: FPC and Greg Moody will send out guidelines to Portland District on the format for sending data.** Mackey would like to add the Willamette projects as well. De Hart mentioned that the system is dynamic and can change as needs develop.

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

6.1. 16BON38-68 MFRs Mackey said there are two more coming

6.2. 16TDA05 TDA-N winter outage updated. **Approved**

6.3. 16LGS13 Capacitive Coupling Potential Device. **Approved**

6.4. 16LWG10 MFR Adult Chinook Mortality – discussed previously in the meeting

7. Fish Passage Plan: The Current 2016 FPP and Change Forms are online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/>.

7.1. Pending FPP Change Forms.

7.1.1. 17LGS002 – New SW Close Criteria (Kiefer). **Pending**

7.1.2. 17LWG001 – Forebay Exit Cooling Pumps (Setter). Revised comments and emailed on May 16. There was confusion about the current language. **Pending**

7.1.3. 17AppB002 – Transition to Primary Bypass (Conder). **Approved for LMN only; LGS pending further coordination with project for discussion at October FPOM.**

7.2. New FPP Change Forms.

7.2.1. 17BON001 – Lamprey Operations Start Date (Royer) **Denied**

Fredricks has concerns that dropping night flow for lamprey may delay adults from entering the ladder and before June 1, there are sea lions residing in the forebay. This potential consequence to salmon would be too great to justify.

7.2.2. 17BON002 – Kelt Trigger Clarification (Zorich) **Approved** - this is a clarification of wording, not a change in criteria.

7.3. Potential FPP change forms.

7.3.1. BON FOGs (per Gary's request) Hausmann will be submitting a form.

8. Task Group Updates.

8.1. BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team: Bettin, Ebner, Hausmann, Mackey, Rerecich, Wright. **TG to meet after the September FPOM.** Ebner must attend with scope of meeting.

8.2. Hazmat response. (Cordie). Team: Baus, Bettin, Conder, Fredricks, Hausmann, Lorz, Mackey, Wright, Zyndol. **TG will meet after the August FPOM meeting.**

8.3. Avian Hazing. (Setter). The TG met after the July FPOM meeting to discuss MCN hazing. Meeting minutes are available on the website.

Next Meeting is August 11, 2016 at the CRITFC office in Portland, OR.