

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 12 May 2016 FPOM meeting.

The meeting was held at McNary Dam. In attendance:

Last	First	Agency	Email
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On the phone: Baus, Bettin, Hevlin, Kiefer, Morrill, Scott, Widinger, and Wright

**May birthdays include:**  
**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. April meeting minutes approved.

1.2. Coordination Requests

1.2.1. **16BON11 MOC LFS DIVE agency Approved**

1.2.2. **16MCN05 MOC Wasco crane TSW ops – Pending further discussion**

1.2.3. **16LMN03 MOC Changes in 2016 Juvenile Fish Transport Operations - Pending further discussion**

1.2.4. **16LGS11 MOC Changes in 2016 Juvenile Fish Transport Operations - Pending further discussion**

1.3. FPP Change Forms.

1.3.1. 17LGS001 – SW Close Criteria. **Further discussion needed at FFDRWG or SRWG.**

1.3.2. 17AppB001 – Revision to fleet size availability. **Approved**

1.3.3. 17JDA001 – Daytime spill hours clarification. **Approved**

1.3.4. 17LWG001– Operation of forebay exit pool cooling pumps. **Pending updated change form.**

2. Action Items

2.1. NWW Action Items.

2.1.1. [May 16] 17LGS001. **ACTION:** Pinney will check between FFDRWG and SRWG to see where to have further discussion.

2.1.2. [May 16] **17LWG001**– FPP change form. Operation of forebay exit pool cooling pumps: **ACTION:** Wright to submit updated change form.

2.1.3. [May 16] **16MCN05 MOC Wasco crane TSW ops. ACTION:** Laughery will gather more information and back to PUD by COB on 13 May.

2.1.4. [May 16] IHR orifice down: **ACTION:** Wright to submit a change form.

2.1.5. [May 16] Siberian prawn euthanization. **ACTION:** Morrill will have more information for the next meeting.

2.1.6. [May 16] LMN into primary bypass during pre-transport season. **ACTION:** Wright to submit change form for LMN.

2.1.7. [APR 16] **16LGS02 MOC TSW Removal and ASW Installation. STATUS:** The installation will occur after the spill is closed on 1 Sept 2018. The whole spillway will not be closed. Baily provided Bettin with more info and he said that's good for now.

2.2. NWP Action Items

2.2.1. [May 16] 16BON11 LFS dive. **ACTION:** R. Walker will update the MOC to reflect the FPOM discussion.

2.2.2. [May 16] JDA-N lamprey trap and haul and the lack of an elevator. **ACTION:** Zorich and R. Walker will take this to the Lamprey Task Group.

2.2.3. [May 16] AWS back-up **ACTION:** Rerecich to provide an updated MOC.

2.2.4. [May 16] **16BON12 MFR ACTION:** Dalglish to send MFR to FPOM. **STATUS: completed.**

2.2.5. [May 16] BON t11 and T12 outage schedule. **ACTION:** Hausmann will provide an updated MOC with the most recent T11/T12 outage schedule.

2.2.6. [APR 16] BON PH2 FOGs. **STATUS:** Completed Change form sent.

2.2.7. [APR 16] CI Subsidence. **ACTION:** Hausmann will find out what PSMFC prefer. **STATUS:** More expensive to move the building than run conduit to the tower. Not sure where the funding is coming from.

2.2.8. [APR 16] MOC EAL testing: **STATUS:** Hausmann has information on what is going to be tested and what that will entail and just needs to copy and paste into MOC

2.2.9. [APR 16] JDA-S lower three weirs. **STATUS:** Zyndol reported that weir 158 may be needed but the chances are very small. The north and south are not the same situation. The question is now do we remove just 2 or all 3 or not at all. Fredricks

commented that it would make sense to take out the 2 lower ones. It would be CRFM funded. Fredricks commented to just leave them in as a final decision. Fredricks asked if a contract is still open and Mackey said no. If it were to be accomplished it would be O&M funded. FPOM final decision is that it would be ok with removing the lower 2 weirs but they are not a priority right now.

- 2.2.10. [MAR 16] JDA avian hazing Economy Act Order. **STATUS:** Completed. Division is finished. Contracts are now with USDA. Zyndol reported that hazers are on site.
- 2.3. Completed Action Items or to be discussed later in the agenda.
  - 2.3.1. [Feb 16] NWP Oil spill plans. **STATUS:** this will be moved to a regular agenda item so FPOM will be sure to look at them. These plans address both small and large scale spills. The Projects will give short presentations at the June FPOM meeting.

### 3. Updates

#### 3.1. NWW Updates.

- 3.1.1. Upcoming maintenance/construction/research activities. FPOM OUTAGES schedule available on the web site with no changes.
- 3.1.2. LMN Transport program over capacity issues. Bailey reported that fish have come early. LMN has only 4 raceways and the capacity to distribute is diminished compared to LGS that has 10. Fish weren't released due to lack of capacity. Baus said there is a draft SOR in the works. Kiefer said they are close to having the SOR out. They understand that the operation is supported but they are working on justification language. Going forward by end of today an SOR should be out. Conder asked if there is anything in the SOR regarding that we are overloading the barges. Kiefer said no that language isn't in there. Kiefer said notification will go out to the group by cob Friday on whether they are implementing or not.
- 3.1.3. LGS Cooling pump update requested by NOAA Fisheries. Setter reported that Hevlin distributed a graph. Hevlin reported that the temp graph was to compare LWG temps to last year and the ten year average. He said that river temps at LWG tailrace are tracking last spring's temps very closely and that causes concern. Last spring the temp increased around May 20. The next two weeks seem critical to this being a similar temp going into June as last year. Hevlin is concerned regarding the time it takes the Corps securing pumps etc in a timely manner to help with temp. Setter said yes it takes the Corps time. A PDT has been developed to look at a generator rental to provide power to pumps. We are going to try and implement planning and feasibility and the first of July is the earliest that we could implement. This is O& M funded. There is still uncertainty but we are actively pursuing.
- 3.1.4. LGS into primary bypass during pre-transport season. Setter said the question was asked why LGS didn't go into bypass. They are short staffed. They are concerned about covers and different operating issues. There are some modifications that need to take place. There is too much happening with being short staffed to make big changes right now. LGS also does not have a debris boom. Setter is not aware of anything that could stand in the way to implement in 2017. Conder suggested checking FPP for clarity of language. Conder asked Wright to initiate a change form that states when sampling is not occurring at LGS they need to switch to primary bypass. Setter suggested implementing the form for LMN. Bailey commented that there was a change this year in how often sampling occurred. Conder stated that they did want to reduce handling and would prefer just two days a week for sampling and not every day. **ACTION:** Wright to submit a change form for LMN.
- 3.1.5. LGS, LWG Euthanization of Siberian Prawns requested by NOAA Fisheries. Setter commented that it was brought to her attention that we were asked to look into the euthanization of Siberian prawns. It was happening due to a request from WDFW.

NOAA would like it to stop. Siberian Prawns are listed as an invasive species and policy states that invasive species will not be reintroduced into the watershed. Morrill commented that WDFW is willing to listen to discuss a reasonable course of action. To them it is not a choice but under State RCW it is codified law due to listed policy. Hevlin is with WDFW in opinion. Setter commented that the population started some time ago and there were some isolated populations at LGS and they have moved down river. Fredricks brought up that we are not in the business of killing things within the monitoring program and that killing prawns would have no effect on prawns in the river system at this point. Morrill would like to obtain the opinions of several managers to be able to figure something out to move forward. He stated that it's important that WDFW has the recognition from the region that their practice is due to codified law and not euthanizing the prawns would go against that. Fredricks stated that the practice is not done at JDA or BON. Setter asked why LMN never undertook the practice and Morrill wasn't sure. Fredricks commented that it doesn't seem right that we are killing species that we are monitoring. Hevlin said the statement in the law states to not put them back into the natural environment but doesn't mention Siberian Prawns specifically. Kiefer said that he is still working on LMN SOR. Kiefer asked about drafting an FPOM request to WDFW explaining the situation with the Siberian Prawn and request a waiver to not be required to kill Siberian Prawns. Setter agreed that sounded like a good idea. Morrill said that he would choose not to state that we are not following codified law. Fredricks said his issue is not the prawns but is that we are killing fish in smolt monitoring program.

**ACTION:** Morrill will have more information for the next meeting.

- 3.1.6.** IHR orifice down: Conder said unit 5 was down and no orifices were operating but standard ops is that they should have been. Fredricks said correct, you don't want those orifices closed when fish have a chance of getting in there and getting killed. Setter stressed the importance of making sure things are clearly articulated in the FPP. Conder asked Ken in an email if oil leaks were the reason they closed the orifices and he said no. **ACTION:** Wright to submit a change form.

### 3.2. NWP Updates

- 3.2.1.** Upcoming maintenance/construction/research activities. Includes already coordinated MOCs.

**3.2.1.1. 15TDA07** MOC 35 ton gantry crane rehab update: Cordie said there is no change and June is still being looked at for final touches. It can come off the agenda. Lorz asked if it's critical for the AWS work and Cordie said no.

**3.2.1.2.** FGE Mods: Walker said work is still going forward as planned.

**3.2.1.3. 16BON03** MOC Blown AWS grating at PH2CC diffuser C5\_update Hausmann this has been completed and can be removed from the agenda

**3.2.1.4.** BON T11 / T12 (coordinated in MOCs 14BON13, 14BON59, 14BON82 & 15BON02). UPDATE: Hausmann: scheduled 21<sup>st</sup> to the 23<sup>rd</sup> or 24<sup>th</sup> of November. T11 needs to come out at the same time as T12 so it can be commissioned. **ACTION:** Hausmann will provide an updated MOC with the most recent T11/T12 outage schedule.

- 3.2.2.** TDA 15mile creek steelhead. Cordie said we closely looked at sluiceway data and he said that we really don't have any justification to open that in the winter. Nov to Dec 15 about 25 fish a day were passing. Dec 15 – end of Feb with just turbines was less than 1 fish a day. March 1 with sluiceway open 60-65 fish a day started. Winter turbine passage just doesn't have the data to support the operation. ODFW thinks fish were overshooting 15mile creek and think that we still need to open the sluiceway but we are not seeing them go through the turbines when the sluiceway is closed.

Mackey and Fredricks commented that there is no need to reactivate the task group but it should be a part of the overall system-wide steelhead fallback investigation. Based on information from PNNL. Cordie discussed other alternative actions. Bettin said we could even start in November.

**3.2.3.** TDA East exit sport fishing – Cordie to brief on plan (map provided). Cordie reported Spring Chinook sport fishery. There is a week when fisherman show up at the east exit and normally don't do well but there were over 25 boats and they get too close to the dam and did well this year. OSP was out there and not certain of the line but also the east exit is Washington and out of their jurisdiction. Oregon has the 200ft exit policy but Washington does not. Lorz said he would check to see if anything has been done. The BRZ line was moved and kept them farther back but it didn't do any good this year. Rangers are out placing more buoys to stay 200 feet from the exit. Fredricks asked if the BRZ is enforceable by law and Cordie said yes it doesn't even have to be a fish related issue. Mackey asked Cordie when he may have info to change the BRZ and he wasn't certain.

**3.2.4.** JDA-S AWS turbine update: Zyndol reported that there has been no change. He said they are waiting for funding still. Mackey said there is a PDT starting this FY.

**3.3.** Research/FFDRWG updates. [www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html) : Cordie said the AWS back-up has been re-awarded. The north was going to come out in November but he thinks that should be revisited and overlap in January. November last year saw many sturgeon in the north ladder. Walker said Rerecich is at a meeting discussing this today in a meeting to get more information for the MOC. **ACTION: Rerecich to provide an updated MOC.**

**3.4.** RCC update.

**Table 1. RCC flow forecast**

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Peak
LWG	97.3	120	123	120/123
MCN	287.7	292	306	307
BON	299.7	301	319	322

**3.5.** Pinniped updates: Zorich reported that numbers peaked in the last 2 weeks and are starting to decline. There is even #'s of California and Stellar. As of the 9 May there were 25 of each. Hazers are still working. There have been 47 total removed so far in total this year. This year's predation estimate is on track to surpass last years.

**3.6.** Lamprey updates:

**3.6.1.** Process for storing lamprey morts for CRITFC. Setter reported that for years dead lamprey were being stored for CRITFC and wanted to make sure that the state agencies were aware and approve that this is happening. Morrill said yes they are aware. Lorz said we've been doing this for the last 5 years and the task group has been informed. Kiefer said Idaho Fish and Game supports.

**3.6.2.** Zorich said lamprey are passing the windows. Good use of WA shore. The plan to operate trap and haul lamprey at JDA-N is in limbo. The north elevator is out of service so hauling lamprey will be difficult if bios need to walk up 150 stairs. Zyndol said the work needs to be contracted and contracting takes time. . The motor is burned out. Without that elevator in service we don't have options for moving fish from that structure. Lorz suggested letting the lamprey task group make a decision on what to do here. **ACTION: Zorich and R. Walker will take this to the Lamprey Task Group.**

**3.7.** Avian.

**3.7.1.** TDA avian (Cordie) Late start on bird hazing.

- 3.7.2. JDA avian lines. (Zyndol) Zyndol said 15 lines are down, with the most recent failure occurring on Sunday. JDA is waiting on a UFR and the PDT is looking at returning the array to the original, intended, condition. Zyndol said there doesn't seem to be much bird use in this navlock area this year. Lorz asked about funding and Mackey said that she does not control JDA's budget, however the UFR should be approved once it is submitted and routed through the District. Fredricks wondered when this may be discussed at FFDRWG. Zyndol said that boat hazing stops the end of July.
- 3.8. BPA updates. Bettin reported said there is some line replacement June 13 – 24 that they will need to have 1 unit on at BON. They are replacing a conductor.

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

- 4.1. **16BON11 MOC LFS DIVE:** Walker reported that this is about the work that is happening on the LFS on the WA shore. This requires divers in the water and dive safety requires near zero flow at the work site. With the required total PH outage it makes sense to do the dive work when the outage occurs. They are requesting to take the DSM out during this time as well. The outage will happen when T11 / T12 are out which is around Thanksgiving week in November. Mackey said that we would just switch PH priority to PH1 for the remainder of the fish passage season through the whole winter maintenance period. **ACTION: Walker to update MOC Approved**
- 4.2. **16BON12 MFR –** Salmonid mortalities in the PH1 unit 8B tail log slot. Hausmann said 7 and 8 have been out for breaker work. 5&6 went down a couple weeks ago. Chilling water was switched to unit 9. Smell was notice a week and a half ago. Fish went into the draft tube and up in to the tail log slot. About 70 adult salmonids died. This hasn't happened before. They weren't trapped but would have had to dive 40feet down to get out. There are two slots that chiller water could be emptied into. Tail logs will get installed. Hausmann asked if we want anything added to the FPP. **ACTION: Dalglish to send MFR out.**
- 4.3. **16MCN05 MOC Wasco crane TSW ops:** Moody said a crane needs to be moved. The request is for 18 May which would require TSW 20 to be out. Fredricks commented that this occurs during the sockeye run and would prefer to have Wasco delay. Bob from PUD said they would go along with what we need but after 13 June would be very difficult. Fredricks said if this could be delayed a week to 10 days. Setter commented about Kiefer wanting 3 weeks to get fish past LMN. Setter asked Kiefer if he's tracking Snake River sockeye to MCN. He said no but he'd bet they are down there. Setter asked how much lead time the PUD needs to move the crane and get this into operation. Keifer commented that this operation will only be for 2 hours and asked if Fredricks would feel better about the operation if it was conducted at night. Fredricks said there is still a lot of passage at night. Fredericks asked about shifting the 10kcf's from TSW 20 to another spillbay and Setter said yes that would happen. Setter wasn't sure which spill pattern it would shift to however. Laughery commented that they don't have a spill pattern developed for this particular shift. **ACTION: Laughery will gather more information and get back to PUD by cob 13 May. He will also develop a temporary pattern to accommodate the spill. PENDING** more information and a decision based on spill pattern swap for a couple hours.
- 4.4. **16MCN06 MFR Fish Loss in VBS Mesh:** Johnson reported that this screen is being worked on in an open hatch. The section that had the tear had a worse tear than appeared in the pictures. Johnson said roughly 6 screens a year receive maintenance. Fredricks suggested looking at transitioning from mesh screens to bar screens for VBSs since bar screen is more durable.
- 4.5. **16LMN03 MOC Changes in 2016 Juvenile Fish Transport Operations:** Baily reported that LMN and LGS do not have facilities for barges to overnight. It would be easier on Ops to switch to truck transport instead of barges during this time period. Wanting to move to trucking to 1 Aug for this year only because of LWG going OOS. Kiefer wants to see what

data is on file for possible harm to fish from trucking compared to barging. **Pending further discussion**

**4.6.16LGS11 MOC Changes in 2016 Juvenile Fish Transport Operations:** Bailey said 1 Aug. will be last day of transport due to facility shut down. **Pending further discussion**

**5. Fish Passage Plan:** The Final 2016 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.** 17LGS001 – SW Close Criteria: Kiefer said there has been a pattern of dam passage of fish at low flows. This is for juveniles but has an adult component as well which is why Hevlin would like temperature data. Would like to reduce temp downstream of LGS. Pinney said tailrace conditions for both juveniles and adults was the original concern. Conder questioned the need for a task group regarding this. Pinney suggested talking about this at NWW 25 May FFDRWG. It was agreed that there is more discussion to be had. **ACTION: Pinney will check between FFDRWG and SRWG to see where to have further discussion.**

**5.2. New FPP Change Forms.**

**5.2.1.** 17AppB001 – Revision to fleet size availability: Setter reported that she saw an error in the FPP. Availability listed was incorrect as to what trucks they had. **Approved**

**5.2.2.** 17JDA001 – Daytime spill hours clarification: The table needs to state that this is for adult attraction. Just correcting the language. **Approved**

**5.2.3.** 17LWG001– Operation of forebay exit pool cooling pumps: Setter commented on getting the straw man out regarding this. The idea was to turn the pumps on and off based on criteria. Lorz suggested adding a bullet to be able to turn it on ahead of time if needed. Setter said they would modify the language requested and then send it back out to finalize. **ACTION: Wright to add changes to the form.**

**5.3. Potential FPP change forms.**

**5.3.1.** BON kelt trigger clarification Wright commented that this is pending another draft

**5.3.2.** BON FOGs (per Gary's request)

**5.3.3.** BON minimum spill

**5.3.4.** JDA digital governor testing.

**5.3.5.** LGS SW close criteria

**5.3.6.** LWG criteria to trigger pump operation

**5.3.7.** Appendix C load shaping guidelines

**6. Task Group Updates.**

**6.1. Yet-to-be active task groups.**

**6.1.1.** BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team members include: Bettin, Ebner, Hausmann, Mackey, Rerecich, Wright. Report from Laurie, waiting for ERDC information.

**6.2. Active Task Groups.** Currently no active task groups meeting at this time.

**7. Other**

**7.1.** Subgroup to meet on MCN spill pattern

**7.2.** Site visit of re-circulating system

**7.3.** Avian – Fredricks asked about lethal take for project gull hazing in the Portland District. Mackey reported that we are pursuing what it will take to move on this.

**8. Meeting adjourned at 13:30**