CENWP-OD 10 November 2016

MEMORANDUM FOR THE RECORD

Subject: DRAFT minutes for the 10 November 2016 FPOM meeting.

The meeting was held at the CRITFC Office in Portland, OR. In attendance:

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| **Last** | **First** | **Agency** | **Email** |
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| Fredricks | Gary | NOAA | [Gary.Fredricks@noaa.gov](mailto:Gary.Fredricks@noaa.gov) |
| Hevlin | Bill | NOAA | Bill.Hevlin@noaa.gov |
| Johnson | Bobby | NWP | [bobby.johnson@usace.army.mil](mailto:bobby.johnson@usace.army.mil) |
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| Wertheimer | Robert | NWP | [Robert.H.Wertheimer@usace.army.mil](mailto:Robert.H.Wertheimer@usace.army.mil) |

**On the phone: Johnson, Keifer, Martinson, Morrill, Scott, Swank, Trachtenbarg, and VanDyke**

1. Decisions made at this meeting
   1. October meeting minutes approved
   2. BON T11 / T12(16BON14) – FPOM would like the corner collector shut off during this work unless there are high flows.
   3. MOCs
      1. 16BON119 MOC CI crowder installation- Updated – FPOM concurred with this action.
      2. 16TDA11 MOC F1F2 outage- FPOM concurred with this action as long as it occurs in the afternoon to impact the least amount of fish. Fredricks requested an operator to look at the water level throughout pumping to make sure it hasn’t pumped dry and not solely rely on the sensors. *UPDATE: TDA project had already has an SOP of having an operator assigned to checking the water levels on any overnight pumps.*
      3. 16JDA05 SQ Board replacement-Walker will discuss with the PDT either adjusting the entire schedule up two weeks or just the schedule for SQ3 with a two week overlap into SQ2 work and report back to FPOM.
   4. FPP change forms
      1. 17AppB002 Transition to Primary Bypass - Approved for LGS
2. The following documents were provided or discussed. Documents may be found at http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/
   1. *Agenda, Fish Passage O&M Coordination Team.*
   2. *NWW FPOM outages schedule*
   3. *MCN current hobo probe locations*
   4. *Coordination/Notification Forms (NWW/NWP)*
   5. *FPP change forms. (NWW/NWP)*
3. Action Items
   1. NWW
   2. NWP
      1. [Oct 16] 15TDA08 transformer/installation (Walker). Action: Walker will update the MOC with the new dates. ***Status: The schedule is still changing so no MOC. Walker will update when the schedule is solidified****.*
      2. [Oct16] Fish Counts and Web Posting (FFU). ACTION: Wertheimer will put together a press release about the situation.***Status: Not completed and now it is too late. FPC did a memo for the public.***
      3. [Oct 16] FCRPS temperature monitoring. If there is evidence that Bonneville, The Dalles and John Day forebays do not stratify then the USGS data would be acceptable. ACTION: Lundell will provide the FFU data to FPOM.***Status: information posted to http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/2016\_FPOM\_MEET/2016\_OCT/***
      4. [Oct 16] Winter Maintenance Schedule. ACTION: BON has posted their winter maintenance schedule but TDA and JDA need to send their schedules to Kovalchuk and Mackey for posting. ***Status: schedules posted to http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Plans%20lists%20charts/***
4. Completed Action Items or to be discussed later in the agenda
   * 1. [OCT 16] BON FOG Bulkheads. ACTION: Mackey will talk to Chane and Klatte about using CRFM money.
     2. [Oct 16] FGE mods. ACTION: Rerecich will send out the updated research proposal. Bettin requested reviewing the research proposal at the next FPOM meeting.
     3. [Sept 16] MCN would like to change hobo locations for juvenile salmonid temperatures.ACTION:Johnson needs to create a change form to discuss. Status: Setter said that the project will be discussing the annual temperature monitoring and will see if anything needs to change.
     4. [Jul 16] Fishway temperatures from NWP. Lorz created a list of the desired locations for the hobo probes for the temperature program to be implemented this winter. ACTION: Wright will make a FPP change form for all three projects. Status: Completed and posted to FPP website.
     5. [Aug 16] BON lamprey mortalities. ACTION: Lamprey Task Group needs to meet and make a recommendation to BON since the IWW period is coming up quickly. Status: The lamprey accords group met in Walla Walla. After discussing the relative mortality index from the last several years, the group was satisfied that even though there were more MFRs this year, the percentage mortality at BON was less than previous years.
     6. [Aug 16] JDA avian array. ACTION: The PDT needs to write an MOC in order for the region to review the plan. *Status:* Complete.
5. Updates
   1. NWW
      1. Upcoming maintenance/construction/research activities. [FPOMOUTAGES]
         1. Dworshak Hatchery (Setter) There was a power outage on November 5th. BPA found a new transformer to loan Clearwater Power. With the new transformer, fish will remain at the hatchery. Approximately ~5k fish were killed because of the power failure.
         2. LGS switch to primary bypass (Setter) - There are a couple of safety issues to work out but this will be done next year. The FPP change form that has been pending for months can now be out for approval.
         3. MCN juvenile warm weather temperature collection (Bailey, Johnson) – [Handout of current probe locations] The current monitoring system for water temperatures affecting juvenile salmonids is extensive due to past problems. Bailey provided the background information on probe locations. There are more probes than needed for management, for example the spillway location. The original plan was to have a lot of data in order to trouble shoot a problem if one were to occur. The data was modeled which created the saw tooth pattern. Now the question is whether all these locations are necessary or if the COE can save money by eliminating some. Bailey will be signing a new contract and needs to know his options first. The cost is $89 per day for three months. If eliminating some of the probes doesn’t save any money, then there is no point in changing the current system. A meeting has been scheduled at 10 AM on Friday November 18th in room 346 (MCN) to discuss the juvenile temperature monitoring program for 2017. The use of the sawtooth pattern is dictated by the FPP and will still be used. FPC has all the historical temperature data if anyone wants to model it. Hevlin said that he and Chris Pinney have scheduled a site visit to LWG on Nov 17th that anyone else is welcome to attend.
         4. Adult ladder outage schedule (Peery) The comment period has ended without any issues noted.
         5. MCN fish pump 2- Fish pump 2 will not be completed in November as planned. A part needs to be fabricated pushing the completion date to March.
         6. Outages [HANDOUT] LWG unit 1 has been delayed to the end of April. FPOM would like the unit completed by April 15. Setter noted that the earlier schedule was only including the contractor time but now includes the COE time as well. Having unit 1 really could be necessary if there are high flows next year. The LWG PIT detector will be discussed at FFDRWG next week. IHR Unit 2 fixed blade will be scheduled for completion by September 2017 which means that the test won’t occur until 2018.
   2. **NWP**
      1. Upcoming maintenance/construction/research activities.
         1. FGE Mods. PNNL research proposal– (Rerecich) On schedule
         2. BON T11 / T12(16BON14) The Nov 10 meeting has been reschedule to Nov 15. The plan is to run the corner collector during this operation. Fredricks questioned its use since it will increase dissolved gas and fall chinook are spawning downstream in shallow habitat. Lorz suggested running the corner collector if the TW is 14-15’ but if it goes lower then stop. The project is running more consistent operation due to low rain. ACTION: Baus will send out a new teletype without the corner collector running during the two week outage. After the outage, then return to normal FPP operation. BON is using the new spill pattern for erosion issues.
         3. BON LFS repairs. (16BON11) On schedule.
         4. BON B-Branch erosion (16BON107) – The avian lines are down in the tailwater for the repair work. A cork line was taken down for the crane to pass by but it is still down. No contractor has been chosen to do the repair work yet. Plans and specs are out but have not been shared with FPOM. Richards is the PM and Royer is the bio. Jeremy Apt is the technical lead. Bids are due Nov 15. *EMAIL UPDATE:* *Richards wrote ‘The bids are due Nov 15; we will work thru the award/Notice to proceed, NTP We won't know anything about the schedule until we meet with the contractor during Precon meeting and Weekly construction meetings.’ The website for the contractor bidding specs is:* <https://www.fbo.gov/index?s=opportunity&mode=form&id=d02e74919ef531e022b31f80fe140dd7&tab=core&_cview=1>
         5. BON WA SH early outage work schedule (16BON116) Never received a list of the hierarchy of winter work. ACTION: Royer will send a priority list. FPOM has a concern about the lack of communication from the project regarding the priority list is noted.
         6. TDA AWS Construction (16TDA10) - On going.
         7. TDA fish unit rehab - Cordie will give an update at the next FPOM.
         8. JDA STS condition- Mackey asked the project to budget for one set of screens at a time to be shipped to BON and get them refurbished. JDA is trying to put the STS under power money not fish money. ACTION: Zyndol will create an MFR to send out to the region so everyone is aware of the current situation.
         9. JDA South fishway AWS pump 1 funding- The project is currently using O&M funds to repair the pump but the project is requesting special funding. The pump is on the UFR list.
         10. Bettin asked about a lubricant for fish pumps that is causing them to crash on the northside. *Email update from Mike Decker, Chief of Maintenance: “We have regularly been getting faults on them due to the way they operate. When a fault comes across the Operators shut it down and start another pump. They then fill out a TR and Mechanical addresses it the next day. Since we have 6 pumps total and 3 are in operation at any one time it isn’t an emergency. We are looking at ways try and fix adjust the SKF fittings. We believe they could be sucking air at times which causes the fault. This is still under investigation.”*
         11. JDA STS crane failure- Emergency contract is out. ACTION: At the January FPOM meeting, Zyndol will give a presentation on the condition screens and the projects plan forward. The screens are posing a great risk for fish and turbine units cannot run without screens posing a great risk to power production.
      2. BON FOG Bulkheads- CRFM will pay for 8 out of 16 bulkheads totaling $350K. O&M will pay the rest as funding allows. There are also wooden panels in the collection channel but the plans for more permanent ones are unknown.
   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)
      1. **JDA PIT Detector –** Scheduled to be completed by April/May
      2. **LPS -** Ongoing and the DDR 90% is out for review
   4. **RCC update**

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| **Project** | **Previous day average (kcfs)** | **5 day forecast average (kcfs)** | **10 day forecast average (kcfs)** | **Projected Low/Peak (kcfs) and date.** |
| **LWG** | 21 | 20 | 23 | 20 on 11/15.  27 11/17. |
| **MCN** | 132 | 125 | 127 | 124 on 11/15.  150 on 11/09. |
| **BON** | 138 | 134 | 140 | 133 on 11/14.  150 on 11/10. |

**Table 1. RCC flow forecast**

* 1. **BPA update-** No update
  2. **Pinniped update-** FFU has observed 10-50 Stellars in the morning. The sealions are hauling out on Tower Island and starting to move to the tip of Bradford Island. There was one mort (Stellar) observed on 1 Nov but not sure of the cause was. A necropsy was done. A new team lead was hired and starting in Mid-December plus hiring staff for the upcoming season. The 2016 annual report should be out by AFEP.
  3. **Lamprey update -** LPS went out of service on 27 Oct. It was a good year for passage. Winter modifications include: WA SH – adding two entrance ramps, minor mods, diffuser grating in the lower ladder, weir cap, improving the counter and adding full duplex PIT antenna.
  4. **Avian update**
     1. **TDA (Cordie)**
     2. **JDA (Zyndol)**
     3. **MCN-** Anew table was fabricated and put out on the JBS for hazers with lots of avian spikes.
     4. **Pelicans- Morrill –** It was recommended at WA State Wildlife Commission meeting to down list the American Pelican to threatened in the state of Washington. Morrill will send a link to the report. For the question of hazing – until there is solid evidence that pelicans are severely impacting smolts, then Washington does not support hazing. Most projects have noted a large increase in pelican populations. The listing status is not just based on population but number of colonies as well.

1. **MOCs fish impact analysis (Fredricks) -** The fish impact analysis section has gotten weaker over the years. Section 333 of the FPP has very general language and just having the 10 year average of fish passage is not enough. ACTION: Fredricks will draft an FPP change form with the minimum criteria for the fish impact section. This is part of the incidental take section from the Biological Opinion and it is important to note the real impacts of these O&M actions on delaying passage or mortaility. The analysis needs to include juveniles, kelts, adults, bull trout and lamprey. In the old days, the impact was too rigorous but now it is getting to weak. There needs to be a summarizing statement of the impacts and a post-action follow-up statement. The last follow up is a qualitative statement at the end about if everything went as planned or if events turned out differently than expected.
2. **Coordination/Notification forms (need concurrence/discussion)**
   1. **16BON119 MOC CI crowder installation-** Updated – FPOM concurred with this action.
   2. **16TDA11 MOC F1F2 outage-** FPOM concurred with this action as long as it occurs in the afternoon to impact the least amount of fish. Fredricks requested an operator to look at the water level throughout pumping to make sure it hasn’t pumped dry and not solely rely on the sensors. *UPDATE: TDA project had already has an SOP of having an operator assigned to checking on water levels for any overnight pumps.*
   3. **16JDA05 SQ Board replacement-** There are four major components that will each take about three months to replace. Four turbine units will be OOS for each replacement. Most of the work is spread out over years to occur during the winter maintenance. The schedule for SQ3 is the only component that will affect turbine priority during fish passage season. The proposal was for June through August which would affect units 9-12. Units 10 and 12 would likely be used during that time since they are higher on the priority list. Without units 10 and 12 eddies would likely occur in the tailrace increasing delay and predation. In the updated MOC, Walker split yearling and sub yearling chinook in the fish impacts section. The question is whether or not those impacts of delay and predation warrant delaying the work. Fredricks wants more accounting on the impacts and the significant eddies. Walker already added the TDG concerns to the MOC. The number of fish impacted by the unit outage can be determined by using the index numbers and the percentage that will be going through the turbines. Walker will update the MOC with how many fish are impacted by eddies in tailrace then agencies can concur. Shifting the schedule by two weeks would lessen the impacts significantly. If SQ3 work started in July then the chances of using unit 10 and 12 is very low. The next step is to figure out of a two week overlap is okay or if the schedule can accommodate a shift. Walker needs to find out if having an overlap would be a personnel issue or have a project impact. Having eight units out in late August/September might be okay since not many units are running at that time. The project can’t schedule any outages during those two weeks. If the entire scheduled shifted then units 1-4 would be out of service during the first two weeks of March. Although it is not a juvenile issue, it does give attraction water for adults but FPOM members did not consider this to be a significant issue. Walker will take these options back to the PDT. FPOM agreed that units 1-4 are critical need to be back in service by April 1. Line replacements are occurring at the same time and should overlap.
   4. **MOC MCN PUD –**The MOC has been cancelled because the turbine was leaking oil. All work has been delayed. The unit needs to be fixed by April 1.
3. **Fish Passage Plan:** The Current 2016 FPP and Draft 2017 FPP Change Forms are online at: [http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/](http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2014/changes/index.html).
   1. Pending FPP Change Forms.
      1. **17BON003 – Nighttime Lamprey Operations**. This issue was discussed at FFDRWG. NOAA was okay for sockeye and chinook but Tackley had concerns for lamprey. Studies showed half flow was good but no flow was bad. McIlwraith has to get with Tackley. Still pending.
      2. **17LWG001 – Forebay Exit Cooling Pumps.** (Setter). Revised and emailed May 16. STATUS: Will revisit at the beginning of 2017. Waiting for research results.
      3. **17AppB002 – Transition to Primary Bypass.** (Conder). Approved for LMN only; LGS pending coordination with project. STATUS: Will revisit at November FPOM. **Approved for LGS**
   2. New FPP Change Forms
      1. **17BON005 – Oil Spill Response.** (Hausmann). Pending, members had not reviewed. EPA and Coast Guard do not have the COE on the Northwest Area Plan Consultation. Conder will email the contact information and Mackey will coordinate for Portland and Setter for Walla Walla.
      2. **17MCN001 Updated spill patterns with no TSWs.** (Setter). Pending. Fredricks sent out his trip report. This will be discussed at FFDRWG. Navigation already gave input on the spill plan. The existing spill pattern is the spring plan but adapted for summer. Setter will forward the email with the Navigation input to FPOM members.
   3. **FPP schedule update-**
      1. Submit all change forms and Appendix A submissions by December 15.
      2. All draft project-specific chapters, appendices, and change forms will be posted on the website by no later than Friday, Dec 30 COB to allow 3 weeks for review.
      3. The annual FPOM meeting to finalize FPP Change Forms is Thursday, Jan 26, 2017 (4th Thursday in January) - we can adjust the date if necessary at the December monthly FPOM meeting.
      4. Feb 13th is the final date for any submissions to go into the printed copy of the FPP.
   4. **BON split flows (Fredricks) –** This year there was a dramatic response to changing to the split flow. Fredricks couldn’t find historical data on project operations to see if that happened in other years. Fredricks suggested going to an even split immediately after spill or waiting to a trigger of 25K. Having a concrete date on the calendar means that you are less likely to miss it. Mackey said that the date when the split occurred will be written in the weekly report. Fredricks will gather the data and draft a change form. ACTION: Fredricks will send out his draft form to Mackey and Kovalchuk for review.
   5. **BON SLEDS (Fredricks)** – In the FPP, BON can leave the SLEDS in till August 1 but Fredricks is suggesting having language with a criteria of a certain amount of sealions in the tailrace. The problem is now how many sealions pose a risk. The SLEDS change the hydraulics of the entrances and can cause problems for Coho, sockeye and lamprey. The greatest disruption is pulling the SLEDS in and out so the project will want to minimize that. The cost of automating the system would be too expensive. Conder preferred using the historic data and choosing a date on the calendar instead of a number of sealion criteria but Lorz pointed out that now the sealion numbers present on any given date are changing. BON project input is necessary. It may be better to remove them during sockeye season and then put them back in August. ACTION: Fredricks will create his draft form and members will comment before sending to Wright. Another thought was not pulling the SLEDS on the non-priority powerhouse entrances as an option.
4. **Agency fishway inspection reporting at FPOM**
   1. Walla Walla is revamping their weekly report and would like feedback on reporting criteria.
   2. Agency inspectors go out to the projects every month but their results are not known until their annual report is published. The results should be shared on a more consistent basis with FPOM. Benner could give an update once a month at the FPOM meeting to make sure that any problems/issues are being addressed. The projects will add the date that the agency inspector came to do the inspection on the weekly status report.
5. **Task Group Updates.**
   1. BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team: Bettin, Ebner, Hausmann, Mackey, Rerecich, Wright. This task group is still applicable. The team needs to coordinate with Ebner to find a date to run the corner collector with low flow.
   2. Hazmat response. (Cordie). Team: Baus, Bettin, Conder, Fredricks, Hausmann, Lorz, Mackey, Wright, Zyndol. TG met after the August and October FPOMs. FPP change forms have been submitted. The TG needs to make guidelines for the person on duty. The next meeting will be after the January meeting. Each project should bring their protocol to follow for the following scenarios: (1) oil floating down the river during fish passage season with high flows and large quantities of oil and high fish numbers and (2) during winter for comparison.