CENWP-PM-E 08 June 2016

MEMORANDUM FOR THE RECORD

Subject: DRAFT minutes for the 08 June 2016 FFDRWG meeting

The meeting was held in CRITFC Lloyd 700 Building Portland OR. In attendance:

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| --- | --- | --- | --- |
| **Last** | **First** | **Agency** | **Email** |
| Bettin | Scott | BPA | [swbettin@bpa.gov](mailto:swbettin@bpa.gov) |
| Brower | Alan | PSMFC | [abrower@psmfc.org](mailto:abrower@psmfc.org) |
| Conder | Trevor | NOAA | |  | | --- | | [Trevor.conder@noaa.gov](mailto:Trevor.conder@noaa.gov) | |
| Dalgliesh | Jane | NWP | [Jane.m.dalgliesh@usace.army.mil](mailto:Jane.m.dalgliesh@usace.army.mil) |
| Doumbia | Julie | BPA | [jadoumbia@bpa.gov](mailto:jadoumbia@bpa.gov) |
| Ebner | Laurie | NWP | Laurie.l.ebner@usace.army.mil |
| Hevlin | Bill | NOAA | Bill.Hevlin@noaa.gov |
| Lorz | Tom | CRITFC | [lort@critfc.org](mailto:lort@critfc.org) |
| Mackey | Tammy | NWP | Tammy.m.mackey@usace.army.mil |
| Medina | George | NWP | [George.j.medina@usace.army.mil](mailto:George.j.medina@usace.army.mil) |
| Rerecich | Jon | NWP | [Jonathan.g.rerecich@usace.army.mil](mailto:Jonathan.g.rerecich@usace.army.mil) |
| Richards | Natalie | NWP | [Natalie.a.richards@usace.army.mil](mailto:Natalie.a.richards@usace.army.mil) |
| Scott | Shane | Public Power Council | [shane@sscottandassociates.com](mailto:shane@sscottandassociates.com) |
| VanDyke | Erick | ODFW | [Erick.s.vandyke@state.or.us](mailto:Erick.s.vandyke@state.or.us) |
| Walker | Ricardo | NWP | [Ricardo.walker@usace.army.mil](mailto:Ricardo.walker@usace.army.mil) |
| Wright | Lisa | NWD-RCC | Lisa.s.wright@usace.army.mil |

Ebner, Hevlin, Mackey, Scott, VanDyke, and Wright called in.

<http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html>

**USACE Fish Facility Design Review Work Group**

# Portland District

1. **Actions or decisions from this meeting.**
   1. March FFDRWG meeting minutes are approved.
2. **Action Items**
   1. **[June 16] John Day Avian Lines - ACTION:** Medina to provide an update and more information on the new scope by next FFDRWG.
   2. **[June 16] TDA spill wall erosion –** Add to the next FFDRWG agenda.
3. **Updates**
   1. The Dalles East Adult Fish Ladder AWS Backup System (Turaski/Roshani/Rerecich) – Award of the contract made and no new protests. We do not have a schedule yet but a pre-construction meeting is set for 22 June. Construction should occur during the next two in-water work periods. Rerecich said that Cordie is working on if we take the north ladder out early or take them both out at once.
   2. John Day North Ladder AWS pumps – (Richards) Richards said all 6 pumps are up and running. We are waiting on the 1000 hour run test. Lorz asked if the issue that occurred with pump 4 is fully resolved and will not occur on the other pumps. Richards said yes we don’t expect it to occur again. She said that they believe it was an alignment issue. All pumps are in alignment now.
   3. Turbine Survival Program (Medina/Rerecich) – Medina said that project is winding down. They have a B1 report being worked and should have it the end of the fiscal year and the B2 should come in December.
   4. B2 FGE (Medina/Knowles/Rerecich) – Medina commented that some changes are being made to the porosity plates and will arrive tomorrow. Work will be conducted in house over the next few weeks. Bettin asked if we could start before 7 September – November 23 and then 1 December through the end of the in-water work period. Medina said we want to take advantage of units being out and Bettin agreed. Wright asked how long it will take per unit. Rerecich said we are constrained by what the project can actually do at one time. He said we won’t know for sure until they get in and start. Bettin said the most we could do would be 2 due to only having 2 bulkheads. Lorz asked about bulkheads being put in place in the tailrace for sturgeon purposes and Rerecich wasn’t certain but said that we could talk more about it at FPOM tomorrow.
   5. Lamprey Minor Fishway Modifications (Turaski/Knowles/Walker) – Walker said on schedule to complete Washington shore work for both and we will piggy back T11 / T12 work for LFS dive work.
   6. Lamprey Passage Structure (LPS) Development and Improvements (Turaski/Schroeder/Walker) Walker reported that we started the PDT for the work at Bradford Island so more information to follow with plan development.
   7. BON Major Rehab (Cutts/Lynn/Rerecich) – Rerecich said the BON rehab team has been working on a report. The spillway gates at BON have exceeded their fatigue life. If a gate fails we will have difficulty. Conder commented that it’s really when they fail. Bettin commented that when it happens bulkheads will be used and the repair will take place. Doumbia asked about if one goes will everything shut down. Lorz commented that it depends how and when the failure happens. Rerecich said we hope to have a 30% report out by the end of FY 16. Bettin asked about the CI fish ladder. Rerecich said that needs more immediate attention and an update will be given at FPOM tomorrow. Conder asked if the apron will also be looked at or just the spillway gates and Rerecich and Bettin said everything will be looked at. Rerecich said that this project could essentially be spillway re-design and fish passage is being considered. Bettin asked what year the repairs could happen and Rerecich said he wasn’t certain but hopes for more information tomorrow. Bettin commented about the importance of this because if we lose the spillway at BON we also lose TDA. Doumbia asks what the end date for the final report is and Ebner said the MMR is due at the end of FY 17. Ebner said the first budget cycle we could get into to receive the money from congress would be FY20. She said the gates were estimated at 90million. There are a few differences with the new gates like being held higher in the air but essentially replacing with in-kind. Bettin asked if max flood could be passed and Ebner said no. We could hoist them higher and get to 1.6million. She said that we are going to have to go with power hoist and power crane. Bettin asked what a new spillway cost ballpark and Ebner said a very large number. She said it’s between $1 and $1.5 billion. VanDyke asked how the B2 corner collector and sluiceway are affected and Ebner said she doesn’t see any impact. If 2million cfs instead of 1.6million cfs had to pass through BON there would be a great deal of modeling required to assure not impacting the corner collector. We currently don’t have a BON model. Ebner said one could be built in 6 – 7 months.
   8. Spillway Gate Repair Pit (Cutts/Rhodes/Rerecich) – Rerecich commented that the gate repair pit needs rehabbed. It’s an O&M funded project. Upgrades will allow for maintenance. FY 18 funding request submitted. The CI subsidence work will come ahead of the gate repair pit. Conder asked if we measure sound. Rerecich said yes in decibels. Conder said based on a study sound is important but not everything. Particle motion also affects the lateral line of salmonids. He said at LWG they have accelerometers that help measure the particle motion in the water. Anchor is doing the research. The pit work is above water. Walker commented that noise made above water won’t pass through but vibration from equipment will. Rerecich said as we get more information on the project we’ll look at the report and more. Rerecich asked an FPOM subcommittee for noise and Conder said it was happening but needs reengaged.
4. **John Day North Ladder PIT detection** (Kuhn / Walker) – Walker said that it should be operational April of 2017. The DDR is being worked on now and when the 90% is completed it will go out. The expectation is that there will be pit detection by next spring.
5. **B2 Orifices** (Medina/Kuhn/Rerecich/Royer) – Rerecich said he and Kuhn met with the project in May. They discussed that the existing air system needs to be maintained. Project biologists are in discussion about that. He said maybe we could flush every 2 hours instead of 4. Conder said that doesn’t address the jet. Rerecich said the orifice has to close to clear debris. The burst of air needs to happen to close them. The jet doesn’t need improved. If you flush every 2 hours that will increase the efficiency of the system. You can’t eliminate a dirty orifice but increasing the flush timing can help. Conder agreed that the jet probably isn’t’ a big issue. Rerecich said Derugin at BON is looking at what they could do with the lenses and the possibility of replacing them or cleaning them more. Rerecich said there is a benefit to improve lighting for the lenses. To completely fix the jets that would require either larger or smaller orifices. We’ve had 12” orifices before and that worked well. Jet quality could be improved with 12” orifice rings. Conder said he’s good with 12” but Fredricks might not be. Bettin asked if they had 2 orifices or just 1 and Rerecich said they have 2 but they close 1 and only operate 1 most of the time. The dewatering screens are at capacity now so two orifices in each gatewell opposed to one won’t work. The preferred alternative in the EDR was to go to a 12” orifice. Conder wants to talk to Fredricks more about going to 12” and revisit at FFDRWG. Rerecich said it would be a good idea to have an orifice ring inspection plan so that perhaps when units are dewatered the rings could be inspected.
6. **John Day Avian Lines** (Medina / Zyndol) **–** Medina said they know they have a problem and that materials have been a problem. A team was put together to inspect the lines and see exactly where they are. The project is going to be re-scoped and brought back in July with better information. Bettin asked if they are thinking about a pole on an island and stretch from there and Medina said no. Lorz asked if they are looking at new material and Medina said yes. New materials, connectors etc. They expect the project to be below 10million. Conder asked if there is indication of improved material out there and Median said yes. Lorz commented that with the new project they need to make sure that the transition with O&M manuals are in place for maintaining the new lines. **ACTION:** Medina to provide an update and more information on the new scope by next FFDRWG.
7. **Other** 
   1. **ACTION:** Add TDA spill wall erosion to next FFDRWG agenda. Ebner said that it is part of the period inspection and that there is a trigger in place to do the inspection if it exceeds spill volume. The inspection happens every 5 years. Ebner said thresholds have been identified indicating certain things that need to be done prior to waiting for the next periodic inspection.

**Next NWP FFDRWG Meeting:** Tentative mid-August 2016

Meeting adjourned at 14:30