

## MEMORANDUM FOR THE RECORD

Subject: Draft minutes for the 02 February 2017 FFDRWG meeting.  
The meeting was held at the CRITFC offices in Portland, OR.

In attendance: Sean Tackley, Ricardo Walker, Scott Bettin, Tom Lorz, Gary Fredricks, Trevor Conder, Brian McIlraith. Phone: Erin Kovalchuk, David Swank, Erick Van Dyke, Brian Bissell, Matt Cutts, Mike Turaski, Natalie Richards, Bill Hevlin, Don Warf.

Meeting documents may be found at:

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

1. Final Actions or recommendations from the 02 February 2017 FFDRWG meeting.
  - 1.1. Tackley will include extra time for the Bonneville Major Rehab discussion in the 6 April 2017 FFDRWG meeting agenda.
  - 1.2. Richards will investigate the JDA North AWS pump lubrication issue. Status/path forward will be discussed at 9 February FPOM and/or 6 April FFDRWG, as needed.
  - 1.3. Tackley will ask Medina and Rerecich to report to FFDRWG on status of TSP report(s).
  - 1.4. A Bonneville B2 Orifices discussion will be added to the FPOM agenda for 9 February.
  - 1.5. Walker will investigate feasibility and costs of providing a temporary PIT data collection system for John Day fish ladders (as Phase 2 data collection construction is completed).
  - 1.6. Tackley and Bissell will get clarity on HECF training requirements and look into options for helping the fish managers get the required HECF training.
  - 1.7. Walker and Tackley will arrange for members to see the Bonneville AFF lamprey trap. Tackley will explore options for getting engineering support for trap modifications.
  - 1.8. FFDRWG concurred with location of temporary HDX PIT antenna for Bonneville WA Shore post-construction evaluation of LPS. Members concurred with the proposed location and approved of the general design.
  - 1.9. Tackley and Walker will coordinate with FFDRWG members on a potential Spring 2017 site visit to Prosser Dam. Ralph Lampman (Yakama) is the POC for the Prosser Dam structure.
2. Bonneville Major Rehab and Major Maintenance Reports (Cutts/Lynn/Rerecich) – Cutts provided a status update via phone. Cutts indicated that the draft report of the list of infrastructure evaluated will be available for FFDRWG review in late March 2017 (after Corps management review). Lorz and Fredricks requested FFDRWG review as soon as possible, particularly if the “screening” process is removing items from the list. Cutts clarified that the report is not about increasing capacity but bringing the existing infrastructure back up to capacity. **ACTION: This topic will be discussed at the 6 April 2017 FFDRWG meeting.**
3. John Day North Ladder AWS pumps (Richards) – Richards provided a status update via phone. The COE negotiated with contractor and settled the claim. The project is being closed out. The pumps are running reliably. Lorz asked if the lubrications system problem was worked out but Richards wasn’t aware of the problem. She will look into this and get back to Tackley. It will also be on the 9 February 2017 FPOM agenda. **ACTION: Richards will**

**investigate the JDA North AWS pump lubrication issue. Status/path forward will be discussed at 9 February FPOM and/or 6 April FFDRWG, as needed.**

4. Turbine Survival Program (Medina/Rerecich) – Tackley relayed notes from Medina. Reports are under review and modeling is underway. Fredricks provided additional information on current TSP activities. Lorz and Fredricks indicated that they would like to see Bonneville B1 and B2 reports soon, as these were supposed to be distributed for review at an earlier date. **ACTION: Tackley will ask Medina and Rerecich to report to FFDRWG on status of TSP report(s).**
5. Bonneville B2 FGE (Medina/Knowles/Rerecich). Tackley relayed notes from Medina and Knowles. Installation is on schedule with two left to go. Priority units were completed first. The PDT is coordinating closely with the Bradford Island erosion repair team (Richards) in the event that there is a construction project/water management conflict, though there are currently no issues.
6. Bonneville B2 Orifices (Medina/K. Kuhn/Rerecich/Royer) – Royer sent an email update: Mechanics are re-plumbing the orifices in house. The cost is \$4k per orifice which is coming from O&M dollars. This work can only be done in the IWW period. This winter will be a trial to find out how much time and money it costs. Members were confused about what work is going on. Bissell reported that the hardware for the air burst system is being replaced to make the system function as it was originally designed. Fredricks would like to know what the plan is. **ACTION: A Bonneville B2 Orifices discussion will be added to the FPOM agenda for 9 February.**
7. John Day North Ladder PIT detection (T. Kuhn/Walker) – Walker provided an update. The North Ladder Phase 1 (in-water) work is completed. North Ladder construction ran a week longer than anticipated but did not require a dual ladder outage. The Phase 1 South Ladder installation is on-going and expected to be completed on schedule. Phase 2 (electrical components/computer room) schedule slipped a couple of weeks; the system should be functioning by May 2017. For the North Ladder, the Phase 2 equipment will be located in an existing room in the fire protection gallery in the monolith upstream of the counting station. Conder asked if a temporary data collection system could be rigged until the Phase 2 work is completed so we don't miss PIT detections earlier in the season. Warf (PSMFC) indicated that this could be feasible, provided electrical support and materials from the JDA Project. **ACTION: Walker will investigate feasibility and costs of providing a temporary PIT data collection system for John Day fish ladders (as Phase 2 data collection construction is completed).**
8. John Day Avian Line Improvements – Phases 1 and 2 (Medina/Zyndol). Tackley relayed notes from Medina. Both phases are on schedule. Phase 2 (long term improvements) will be a separate contract. No other information was available regarding project status.
9. Lamprey Passage Structure (LPS) and Minor Mods (Turaski/Schroeder/Walker)
  - 10.1 Bonneville WA Shore LPS/Minor Mods contractor is working. Minor mods is slightly behind due to weather. Lorz requested photos to document the modifications before water up. Ladder water-up is scheduled for Feb 20<sup>th</sup>. A site visit could be scheduled for Feb 16<sup>th</sup>. Safety requirements for entering the ladder under a clearance have changed. A Hazardous Energy Control Program (HECP) certification, safety talk and a lock are required to enter into the ladder. The online training cost is \$55 and is required per individual.

Members do not want to look from the deck if possible. **ACTION: Tackley and Bissell will get clarity on HECF training requirements and look into options for helping the fish managers get the required HECF training.**

10.2 Bonneville Bradford Island and Cascades Island LPS and Minor Mods.

Comments are due on the 60% DDR. The team will evaluate the success of the modifications at WA Shore before bringing the changes over to Bradford Island. The Cascades Island LPS pumps will be assessed to see if they need to be upgraded. There was discussion about the PIT systems integrated into the LPS improvements. LPSs will include both multiple HDX (half duplex) antennas (as has been done in the past) and FDX (full duplex) detection. The purpose of the FDX system is for future monitoring of any full-duplex PIT tagged lamprey that may be in the system – not for the upcoming COE-funded post-construction evaluation. COE is *not* planning to tag lamprey with FDX PIT tags for adult lamprey studies. Tackley and Bettin agreed that the future of the HDX system needs to be discussed at a regional scale, given that others utilize HDX PIT tagged lamprey from COE-funded studies and multiple users maintain HDX arrays for lamprey studies in tributaries and at Mix-Columbia PUD dams.

10.3 Conder asked why the LPS isn't used to trap lamprey instead of adding a trap to the ladder for trap and haul/research fish collection. The Adult Fish Facility (AFF) trap at Bonneville WA Shore is operated at night but has a history of collecting smolts and/or mini-jacks and therefore impacts ESA listed salmonids. The MFRs would have to be reviewed to know how many fish are impacted. The trap should be redesigned so salmonids can't enter. Tackley and McIlraith noted that there is a history (and controversy) of using LPSs that end in collection boxes as sources of lamprey for translocation or research. Examples include JDA North LPS and Cascades Island LPS. The scope of JDA North LPS improvements includes retaining the ability to do trap-and-haul. The Bonneville AFF trap mods need to take place before the next collection season (Spring/Summer 2017). Members would like to see plans and specs for the modifications. The trap is currently sitting on the deck and the winches are put away for the winter. In order to make suggestions, members need to see how the trap sits when it is deployed. **ACTION: Walker and Tackley will arrange for members to see the Bonneville AFF lamprey trap. Tackley will explore options for getting engineering support for trap modifications.**

10.4 Temporary HDX PIT antenna for Bonneville WA Shore LPS post-construction evaluation. Walker presented slides showing a similar HDX PIT antenna located at MCN. The design is tapered to the wall and floor. This is temporary and only for the duration of this study. The location is accessible by crane in case large debris gets stuck. Members concurred with the location. For the nearby DIDSON mount location, an I-beam mounted to the wall extends to the floor and a camera is mounted on the I-beam. Fredricks thought it was a section of I-beam and not extending to the floor. Members agreed that the slow velocity pool would be the best location for the I-beam but NOAA doesn't like having anything in the ladder sticking out. **DECISION: FFDRWG concurred with location and basic design (with tapered sides) of temporary HDX PIT antenna for Bonneville WA Shore LPS post-construction evaluation. Walker will coordinate with U of I and see if the DIDSON mount design can be improved.**

10. BON Bradford Island Experimental Wetted Wall. Walker and Tackley reminded FFDRWG that the COE plans to have NOAA Fisheries researchers (Mary Moser, Kinsey Frick) install an experimental wetted wall at Bradford Island Ladder to divert lamprey away from the problematic serpentine weir section and into the adjacent AWS channel (toward the LPS). Construction will occur during the 2017-18 IWW period. This is through the Lamprey Studies project (Tackley is PM) rather than through the Minor Mods project. The BON Project has expressed interest in doing the actual fabrication and installation. A design will be forthcoming. The new design will look similar to what was already approved in 2014. Tackley noted that there is a wetted wall example at Prosser Dam that people could view.  
**ACTION: Tackley and Walker will coordinate with FFDRWG members on a potential Spring 2017 site visit to Prosser Dam. Ralph Lampman (Yakama) is the POC for the Prosser Dam structure.**

**Next NWP FFDRWG Meeting:** 6 April 2017, from 09:00-12:00 in the Block 300 (Portland District Office) Fireside Conference Room (1<sup>st</sup> floor lobby).