

MEMORANDUM FOR THE RECORD

Subject: Draft minutes for the 06 April 2017 FFDRWG meeting.

The meeting was held at the USACE office in Portland, OR. In attendance:

Last	First	Agency	Email
Bissell	Brian	NWP -BON	Brian.M.Bissell@usace.army.mil
Baus	Doug	NWD-RCC	Douglas.m.baus@usace.army.mil
Conder	Trevor	NOAA	trevor.conder@noaa.gov
Cooper	Erin	FPC	
Cutts	Matt	NWP	Mathew.E.Cutts@usace.army.mil
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Fredricks	Gary	NOAA	Gary.Fredricks@noaa.gov
Kovalchuk	Erin	NWP	Erin.H.Kovalchuk@usace.army.mil
Kuhn	Karen	NWP	Karen.A.Kuhn@usace.army.mil
Lynn	Amy	NWP	Amy.K.Lynn@usace.army.mil
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Macdonald	Jacob	NWP	Jacob.Macdonald@usace.army.mil
McIlraith	Brian	CRITFC	mcib@critfc.org
Medina	George	NWP	George.J.Medina@usace.army.mil
Meyer	Ed	NOAA	Ed.Meyer@noaa.gov
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Richards	Natalie	NWP	Natalie.A.Richards@usace.army.mil
Royer	Ida	NWP-BON	Ida.M.Royer@usace.army.mil
Tackley	Sean	NWP	Sean.C.Tackley@usace.army.mil
Walker	Ricardo	NWP	Ricardo.Walker@usace.army.mil
Wharf	Don	PSMFC	DLWharf@psmfc.org

On the phone: Baus, McIlraith, Medina, Meyer, Royer, and Wharf.

All documents can 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. February meeting minutes were approved.
2. TDA Fish Unit Rehab – The objective of the project is to rehab and increase the reliability of the fish units. This project is just beginning but they are working towards a criteria and constraints report. The project would like to investigate increased flow per unit in order to maintain criteria during one unit operation. This

is BPA funded and O&M updates will come through FPOM. Turaski is the PM. Even though the AWS back-up is occurring, this project is still a high priority because the units are so old.

3. Bonneville Major Rehab (Cutts/Lynn/Rerecich) – (Slide show) Cutts outlined the project including what infrastructure would be covered. Each item needs to have a cost benefit ratio of over 1.0 in order to be funded. Some items will go to Major Construction reports instead of Major Rehab because Major Construction is O&M funded or the item might have imminent failure. The fish ladder PLCs and the Spillway Crane will be in Major Construction. The Major Rehab Report is being drafted this year and Major Construction next year. Timeline – FY15 Phase 1; FY16 Collect data info for MMR & MRR; FY18 Draft MMR & MRR; FY21 earliest possible timeline for the DDR for spillway, bridge and fish ladder DDR. The funding takes three years after it has been added to the budget line. This project will be competing with all the other projects benefit cost ratio for funding and even if approved in FY18, it doesn't guarantee funding by FY21. Although the benefit cost ratio doesn't include environmental consequences, the team will still add things like "days out of compliance" or other significant impacts. NOAA commented that there are so many other problems that are not being addressed by this for example the tailrace erosion. Ebner explained that this project stems from fish related issues. For flood control, all 18 spill bays are not necessary but the juvenile fish spill pattern does require them. Since a new spillway is not justifiable cost wise, this project (if funded) will allow BON to maintain the existing spill pattern along with the cranes and other essential parts. A benefit to juvenile fish survival would be a new gate lip and Ebner encouraged FFDRWG representatives to provide input on the potential fish benefits. The gate lip could be funded under CRFM. A key value to this Major Rehab Project is that the COE will identify how to fix problems/infrastructure when things fail and not necessarily exactly the way things are now. Participation will be required for making new spill patterns. There is an issue with rocks moving around in the basin. There may need to be a rock removal this fall, given high flows this winter/spring. There was a discussion of the models at ERDC and their status.
4. Turbine Survival Program (Medina/Rerecich) – An ERDC trip is planned for the week of 17 April. Fredricks questioned if the trip was cancelled and if the overall project funding was secure. Medina said that he was operating on premise that the project and trip are a go unless he hears otherwise. The TSP team is reviewing the B2 report and then it will be sent out to FFDRWG for comments.
5. Bonneville B2 FGE (Medina/Knowles/Rerecich) – The installation of the plates was completed on March 17. All hydroacoustic equipment except unit 16 has been installed. Unit 16 is OOS and the equipment will be installed in May. The monitoring will start with spill. All the VBS seals look good. Unit 15 plate inspection was delayed because the tail water was too high. Another inspection will have to be planned. Units are now being operated to the upper end of 1%.

6. Bonneville B2 Orifices (Medina/K. Kuhn/Rerecich/Royer) – The EDR is almost finished just waiting on a couple of things and an internal peer review. Funding was in place for the PLC reprogramming but the electricians revised (increased) their cost estimate. This will still be funded but the CRA is slowing down process. The reprogramming will hopefully be completed by June 1st. The overall cost of the entire project has been reduced but coring orifices and moving actuator gates still comes to ~\$4Million. Whether or not the DDR will be funded is unknown. The air burst problem has two issues – making sure there is enough pressure and adding additional bursts. Once the EDR is finished this project will move to SCT for funding prioritization. The low cost options will be done first. Mechanics re-plumbed orifice 11A for less cost than anticipated.
7. John Day North Ladder PIT detection (T. Kuhn/Walker) (Richards) – Richards took over as PM for Kuhn. Richards checked on the BCOES comments and not all comments have been addressed yet. She has concerns that the contract will be not be awarded by the end of May as scheduled. The temporary system is working but requires manually downloading. The data link provided in the update is not working and it is difficult to find on the PITTAGIS website. Walker will send a new email with the link. The temporary system covers a single weir but the permanent system will have two weirs for redundancy.
8. John Day Avian Line Improvements – Phases I and II (Medina/Zyndol/Macdonald) – Phase 1 (replace the fallen lines on the north shore along the Nav Lock) was completed with the exception of two lines due to high water; they will be pushed out to Phase 2. Currently, the team is working on plans and specs to awarding a contract for Phase 2 in November. Phase 2 will also upgrade some of the lines by installing tension devices and create a user manual.
9. Lamprey Passage Structure (LPS) and Minor Mods (Turaski/Schroeder/Walker) – WA SH has been completed and evaluations are going as planned. The BI and CI BCOES package should go out for review on April 10 and will include outside agency comments. Three basic alternatives were presented for the Lamprey trap. The gravity water supply concept is the easiest/simplest design; other options include a syphon or pumping water. The team identified the best location that should have the least impact to fish in the ladder. The box is about 3’ out of the water that is permanently attached to the wall with a removable hopper inside to remove lamprey. The ramp will be detachable and only in during trap use at night. There is a PIT reader on this weir that could give data on night passage or success information. Conder suggested that the COE look at the edge of the ramp to make sure that any fish jumping or falling back won’t get cut on the edge. The ramp is open but could be boxed in. It also needs to be secure to the weir. NOAA likes the LPS but thinks there might be issues with the ramp on top of the weir. Fredricks would like just one trap since the lower trap has the same issues as the upper trap. The team will be starting on drawings next week. To get enough head in the trap, it may need to move down a couple of weirs from the current location. Meyer brought up two concerns – the pipe intake imposing four inches on the weir

and water leaking from the trap overflowing into the ladder causing a false attraction. To reduce the impact of the pipe, it needs to be designed long and thin. During the day when the trap is out, no part of the trap will be in the water.

10. Status with wetted wall – The wetted wall will be in Bradford Island and most likely next to the count station as previously coordinated. The plan is to install in the winter of 17/18 then evaluate for two years. The design has been approved before but the group would like to see it again. Walker will resend it. There is concern about splashing and false attraction. The crest will need to be covered but the rest may be open. The pump will have a throttle to increase or decrease flow.

Next NWP FFDRWG Meeting: 1 June 2017, from 09:00-12:00 (Location TBD)