

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 05 December 2019 FFDRWG meeting.

The meeting was held at the Lobby Conference Room, Block 300 in Portland, OR.

In attendance:

Last	First	Agency	Email
Adams	Jim	NWP-PM	James.R.Adams@usace.army.mil
Bell	Bridget	NWP-ENC	Bridget.M.Bell@usace.army.mil
Bellerud	Blane	NOAA	Blane.Bellerud@noaa.gov
Bettin	Scott	BPA	swbettin@bpa.gov
Conder	Trevor	NOAA	trevor.conder@noaa.gov
Fielding	Scott	NWP-PM-E	Scott.D.Fielding@usace.army.mil
Kovalchuk	Erin	NWP	Erin.H.Kovalchuk@usace.army.mil
Lorz	Tom	CRITFC	lorz@critfc.org
Macdonald	Jacob	NWP	Jacob.Macdonald@usace.army.mil
Morrill	Charlie	WDFW	Charles.Morrill@dfw.wa.gov
Rerecich	Jon	NWP-PME	Jonathan.G.Rerecich@usace.army.mil
Royer	Ida	NWP-PME	Ida.M.Royer@usace.army.mil
Trachtenbarg	Dave	NWP-PM-E	David.A.Trachtenbarg@usace.army.mil
Van Dyke	Erick	ODFW	erick.s.vandyke@state.or.us
Wilson-Fey	Max	NWP-ENC	Max.P.Wilson-fey@usace.army.mil

On the phone: Fielding, Kovalchuk, Morrill, Royer, Trachtenbarg and Van Dyke.

1. Final decisions or recommendations made at this meeting.
 - 1.1. Meeting minutes from August were approved.
2. The following documents are provided or discussed at this meeting. All documents can be found at: <http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html>
 - 2.1. Agenda (NWP)
 - 2.2. FFDRWG updates (NWP)
3. Bonneville PIT detection – *Jeff Hicks (PM), Brandt Bannister (TL), Ida Royer (FL)*
 - 3.1. USACE at-dam feasibility final draft EDR comment period ends December 2nd.
 - 3.2. Review comments received to-date – Last report was sent out and comments were received. Both ITS forebay fixed and auto gates were the two alternatives selected but the PDT is recommending combining into one alternative. BPA would like to move away from the first two gates (1A and 1B) and put auto gates at the next slots at unit 2. BON uses the first slots for passing debris. Lorz said the question is if you can get the flow from the other slots. Conder isn't sure if that would result in the same amount of flow and it is unclear if the fish would use it at the same rate. Royer suggests moving the discussion to FPOM since the project uses the gates for debris in addition to fish passage. Lorz wants to make sure which ever gates are used have the PIT detection. NOAA wouldn't prioritize automating gates since that would come out of OM funding. Unit 1 is the priority unit for adults and juveniles. The scope of this project is only

looking at adding antennas to what is currently there. Adding the automation would add delay to this project. Bettin has concerns about debris ripping the antenna out. Bettin doesn't think the detections will be as good with the deeper gates but Royer said all the factors were taken into account for the matrix. **ACTION: Kovalchuk will add this topic to the January FPOM meeting agenda.** The final report will be coming out before Christmas.

4. John Day Turbine Rehab – *Steve Sipe (PM), Curtis Lipski (TL), Jon Rerecich (FL)* – The PDT has received funding for Phase 1A. The PDT had their first meeting to discuss scope. Lorz asked if the IHR work will influence the configuration of fixed and Kaplan blades. Rerecich said that it will be used but the design process will be similar. CFD modeling will be used for this configuration/design. Bettin said that the BPA transmission folks do not want too many fixed blades; they like the flexibility of the Kaplan. It will take roughly 10 years before construction starts. The screen system is not part of the project. The team is trying to optimize fish passage without screens. Bettin suggested looking at deflectors at the gatewell instead of screens or another alternative because the screens are very expensive.
5. TDA AWS – Commissioning will be the third week of February. The PDT has a meeting scheduled for 17 December to discuss one fish unit/AWS operation during the Fish Unit Rehab. At FPOM, fish managers said that they would be amenable to running the AWS in March for additional run time. Rerecich will bring this topic to the PDT meeting. Bettin reminded everyone that the AWS was not designed to be used with the fish unit. If the AWS isn't used, then one fish unit would have to supply the AWS water for all the entrances all year. Bettin suggested closing the south entrance but Lorz said that they would have to look at lamprey passage.
6. Bonneville Second Powerhouse FGE – *Jim Adams (PM), Bridget Bell (TL), Jon Rerecich (FL)*
 - 6.1. Funding for 2 units, unit 15 and unit 11 or 14 (TBD)
 - 6.2. Tentative schedule:
 - 6.2.1. March-April: 6 weeks construction in unit 15
 - 6.2.2. May-June: Hydraulic testing

The schedule is a draft and the primary objective is construction by the end of April. They are trying to target the high flows in May for testing which is driving the rest of the schedule. The PDT has enough funding to do two units if the testing is successful. The contract will have a provision to do another unit that needs to be decided by August. The AE contract for testing is separate from the construction contract and won't go out for solicitation until the construction contract has been awarded. The construction should be finished in February. Bettin asked if unit outages will be required during the testing. Bell said that during installation of the testing equipment unit outages will be required. Bettin wants to know if the unit will be run outside of the 1%. The plan doesn't include going out of this band. Bettin would like to see this tested since sometimes the unit is run outside of that band. The testing will match the 2015 testing because that is the baseline data. Morrill asked if the testing finds problems and additional engineering modifications are required then will this affect the ability to do the second unit. Bell said that the decision to execute the second unit has to be done by August but if there are too many changes to the original scope then they may not want to follow through. If additional testing is required then the testing would have to occur the next spring. The biggest challenge will be replicating the same flow as 2015. Morrill asked if this should go to TMT. Bettin said that this falls into his realm and is trying to take care of it. Bettin asked if the adjacent units need to run during the testing. Bell said that yes, ideally 14 and 16 would run. Unit 14 has a scheduled outage but they have asked the project to see if they can switch the maintenance dates for 14 and 12. The testing

will take a week. Unit priority may need to be changed during the testing to have enough units available. When testing 15A then they want 14 running and 15C then unit 16 running but they don't need them both running continuous. Bettin said that arranging the flows, tailwater level and head differential during the test period will be very difficult. Rerecich thinks that 15A is the highest priority. The team doesn't want the equipment installed too far in advance because there could be sediment build up. The testing equipment will be reused. Bell said there isn't much value in going over all the possible scenarios but they can reasonably forecast a week in advance for planning. Bettin asked how much lead time the contractor needs to start the install process. Adams said he is not sure and that there are confined space issues and project operations support to be concerned about. Unit outages require a three week notification. Spring Creek hatchery has two releases one in April and one in May. It would be best not to have the testing during the same time as the May release. As the work gets closer, an MOC will go through FPOM with details of the proposed operation. Bell clarified that unit 11 is not necessarily the next unit to be modified, it could be 14. Conder said that the issue with unit 11 is that the unit would have to be shut down while the B2CC is running. Fish mangers might not be willing to impact the juvenile migration run. The actual construction will be after September/October. If this gatewell modification is successful then unit 11 would make more sense but if additional mods are required then 14 would make more sense for additional testing.

Next NWP FFDRWG Meeting: 6 February 2020