CENWP-PM-E 06 February 2020

MEMORANDUM FOR THE RECORD

Subject: Draft minutes for the 06 February 2020 FFDRWG meeting.

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

In attendance:

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| --- | --- | --- | --- |
| **Last** | **First** | **Agency** | **Email** |
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| Hausmann | Ben | NWP-BON | Ben.J.Hausmann@usace.army.mil |
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| Lorz | Tom | CRITFC | [lort@critfc.org](mailto:lort@critfc.org) |
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On the phone: Axel, Baus, Bellerud, Cooper, Hausmann, Sullivan, Swank and VanDyke.

1. **Final decisions or recommendations made at this meeting.**
   1. December meeting minutes were approved.
   2. Next meeting is 02 April 2020.
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**](http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html)**.**

2.1. Agenda

2.2. FFDRWG updates

2.3 Idaho Cooperative Fish and Wildlife Research Unit report - PASSAGE BEHAVIOR OF ADULT SPRING CHINOOK SALMON AT BONNEVILLE DAM INCLUDING EVALUATIONS OF PASSAGE AT THE MODIFIED CASCADES ISLAND FISHWAY, 2010

2.4. Bonneville Entrance Improvements – Cascade Island Adult Fishway Letter report

1. **Ongoing project updates**:
   1. Bonneville PIT detection – *Jeff Hicks (PM), Brandt Bannister (TL), Ida Royer (FL)*

The EDR is complete and the PDT is awaiting funding for next phase of design. The preferred alternative is the sluicegates at PH1. Conder asked about when the end gates will be repaired. This is a topic for FPOM. BON submitted a UFR request. Hausmann will check on any updates for FPOM. Conder asked about the BPA barge detector. Axel reported that they will try to deploy the barge this year before the peak smolt outmigration. Last year, they were delayed because of the government shut down. The barge location was good to target downstream migrants with adequate mixing with the outfall. They also used last year to test the debris shedding system. This year, they might go further into the tailrace, closer to the dam. Conder would like them to go closer to the thalweg but not too close to the outfall. NOAA will still look at prototypes for the ITS even though it is not currently funded.

LWG spillway PIT detection – A cable was damaged during installation and needs to be replaced. The detections are going better than expected. The antennas have detected seven Steelhead that went through during the short spill test. They were able to figure out speeds based on the detections at several antennas. LWG was spilling more water than typically during the spill season. Sticks were weighted for the flow and about 40% of the sticks were detected. The spill tests are complete. BPA is anticipating involuntary spill and might spill there for lack of load. Bettin would like the clearance removed from the spillway after the cable is repaired. Lorz wants a post inspection after the spill season. Conder asked why the cable was damaged. They think the sleeve of the cable was pulled against something and scraped it. The antennas will be monitored remotely.

* 1. Bonneville Second Powerhouse FGE – *Jim Adams (PM), Bridget Bell (TL), Jon Rerecich (FL)* – The project is now on hold. The contracting package is ready and the reviews are valid for six months. If the PDT can find funding before the end of June, they will issue the solicitation for the construction package. If they don’t have the money by June, the contract will be on hold until next year. If the contract is awarded by August, the construction would be next winter. The contract will have one unit (15) mandatory and one unit as an option. Bettin suggested writing the initial contract for two to save money but Conder wants to test the completed unit first before modifying the second unit. Adams thinks the second one will not be twice as much as the first since they will have experience on the second unit. BPA would like to take the risk on two units at once.
  2. John Day Turbine Rehab – *Steve Sipe (PM), Curtis Lipski (TL),* *Jon Rerecich (FL)* – The PDT is in the scoping phase for phase 1. Rerecich showed the current schedule. Lorz said that this schedule differs from CRSO. CRSO documents said the first turbine installation is in 2025; the CRSO date appears to be incorrect. Shide said the contract award will be in 2024 and the schedule is the best case scenario. The PDT is expecting a mixture of propeller and Kaplan units. Bettin wants the terminology on the fixed blade propeller to be propeller, otherwise it gets confused with the hydraulically locked units. BPA is trying to engage transmission on what they can accept for propeller and Kaplan as far as flexibility for generation. The JDA ERDC model is being rehabbed. Dunlop is adding the juvenile by pass flow and the fish ladder flow to the model so that it mimics the real world situation. The funding for recalibrating the model is not CRFM. Conder is still concerned about the future of screens. Rerecich said that they are designing for optimal hydraulic conditions without screens but anticipate using screens once they are installed. The benefits of the new turbines will be studied to see if the improvements justifies removing screens. Conder said that adding surface flow at the skeleton bays could help but doesn’t think that screens will just go away. Bellerud pointed out that none of the current turbines were designed with screens. Lorz has concerns about gatewell conditions because the flow will be different. The new design will not exceed the current flow range. The capacity is going to be the same. The operating range is currently at the upper end of 1% already. Conder wants to see studies evaluating the conditions without screens and hasn’t seen anything proposed yet. Lorz points out that CRFM funding is going away so there wouldn’t be money to study this in ten years. The study was proposed in the Phase 1 A. Conder would like to see an option of the skeleton bay. Sullivan said that the BA has a section on potentially removing screens at IHR, MCN and JDA. The language is vague and depends on the design and testing.

1. Bonneville Bradford Island Fishway Entrance Gates – Ben Hausmann (Bonneville Fisheries) – The two tailwater dependent gates are in need of significant repair. The project would rather install a fixed weir than repair the current style. The fixed weir has much less OM costs and would be similar to Cascade Island. The CI weir was studied to make sure there wasn’t any negative impact to fish. Lorz likes the idea and asked if bollards would be installed. Royer asked if the project is reducing flows at night for lamprey, would bollards be necessary. Lorz said that is a night operation and lamprey pass during the day as well. Conder asked if we know the bollards work. Lorz said that the JDA-N has the best entrance passage for lamprey. Schlenker said the bollards at JDA are slightly different shape than CI. Hausmann would like to do all the weirs in the variable width style, if possible. Conder asked what the cost difference is between fixing the current style compared to fabricating a new weir. The CI weir contract was an umbrella that contained several other items so it is hard to parcel out the exact cost. Lorz suggested that the COE reach out to the lamprey task group to see if they would prioritize bollards. Conder asked if the fixed weirs work under all conditions. Schlenker said yes, but it requires more water. The project had to use trial and error to have the diffusers adjusted correctly for CI. Conder will only support the new weir if it doesn’t take a lot of CRFM money. Hausmann confirmed that the bollards typically lead the lamprey to an LPS. VanDyke requested the Bonneville Entrance Improvement document be added to the FFDRWG website. ACTION: McDonald will distribute the discussed documents with the minutes.
2. Hydraulic spillway cleaning – Lorz asked for a report showing the rock was removed after the last operation. Lorz said he would like a hydro survey after the spill operation. Kovalchuk said that the hydro survey will be discussed at FPOM.
3. Cascade Island lamprey trap – The lamprey trap will be installed this week above the picketed leads in the old ladder exit section. The initial plan was to put the trap in the upper section but the tribes preferred this location. The old exit section is only used if the UMT is out of service. Conder was fine with this location. Lorz said there is a move to get the wetted wall into a trap. If the CI trap is a bust, the tribes might come back and ask for LPS access. Hausmann said that he wants people to give the trap a chance before calling it a bust since all lamprey traps have required seasoning. Lorz said he understands Ben’s point.