Fish Passage Operation and Maintenance (FPOM) Team meeting

13 February 2020 09:00-2:00

Columbia Room (12th floor), CRITFC Office

700 NE Multnomah St., Portland, Oregon 97232

**Conference line: 888-675-2535** **Access/Security code: 4849586 Attendee ID: 455**

**Webex meeting:** <http://usace.webex.com/meet/tammy.m.mackey>

Documents may be found at: <http://pweb.crohms.org/tmt/documents/FPOM/2010/>

1. **Approve January Meeting Minutes (Setter)** –

1. **Action Items**
	1. **NWW**
		1. **[January 20] Staff Gauges -**ACTION: Setter will follow up with Hausmann after the meeting.
		2. **[January 20]Invasive species** - ACTION: Setter will have the invasive species coordinator write a letter to WDFW specifying the Corps position on lethal removal from sampling facilities for shad.
	2. **NWP**
		1. **[January** **20] BON B-branch weirs** - ACTION: Kovalchuk will email McDonald to get B-branch weirs on the FFDRWG agenda.
		2. **[January 20] Pinniped update -** ACTION: VanDyke will forward the 2019 final pinniped observation report to Kovalchuk.
	3. **Completed Action Items or to be discussed later in the agenda**
		1. **[January 20] LWG PIT detections spillway project -** ACTION: Hockersmith will send pictures of the capacitor lid surface. *Covered during January 30, 2020 NWW FFDRWG meeting.*
		2. **[December 19] Invasive species discussion -**ACTION: Van Dyke will check to see if the laws are same as WDFW on northern pike. *Status: VanDyke said that there is no law about killing northern pike because the species have not been found in the state. There is law on managing new introductions which says not to release a live, new invasive species. Setter said that the Colville Tribe have been doing a removal program and found through genetic testing that the northern pike have apparently been reintroduced several times and are not just of Pend O’Oreille R origin as previously thought. Setter wants to be clear on what to do if a northern pike is found at one of the SMP facilities. VanDyke said that it is very important to follow the permit language and communicate any sightings.*
		3. **[December 19] LWG Spillway PIT Construction *-*** ACTION: Hockersmith will keep Bettin updated on the schedule for the spill test. *Status: Completed. Setter sent email with spill tests.*
		4. **[December 19] Per Bettin’s question about screens -** ACTION: Setter will follow up with Richard Turner about the investigation into screen replacement.*Status: At this point, even though the white paper was completed, no funding was secured. Setter noted that after the FPOM minutes were sent out, there has been internal discussions taking place. Setter clarified that this topic has to do with maintenance of the ESBS screens. Some people are questioning if all units will be maintained and therefore, do they need all the screens maintained. The LWG screens also fit LGS. LWG has updated 12 of 18 screens. Bettin suggests the COE look at the maintenance and if it is worthwhile to keep the screens. Setter stated that LGS has been updating the repair pit to work on the screens and are almost finished. Conder has concerns that if the screens are replaced that they need to be as long as the previous screens so the FGE doesn’t change and that they need to be lamprey friendly. JDA has no plan for screen replacement. One screen was damaged this year so there is no longer a spare but several units are out of service. The sand blasting facility had been a plan but it was not followed through on. Zyndol clarified that the overhaul is the framework only. The moving parts and screens are maintained every year.*
		5. **[January 20] BON Spillway rocks** - ACTION: Kovalchuk will follow up with Ebner to see when the spill to push rocks off the apron will happen and if a follow-up survey can be done. ***STATUS: flushing spill completed on 4 February. Funding for a follow-up survey is being sought.***
		6. **[January 20] 20BON02 MFR -** ACTION: Lorz will send the Corps a list of impacts that not being able to use the AFF would cause. ***STATUS: completed.***
		7. **[November 19] Lamprey Update -** ACTION: Lorz will ask the lamprey task force about the entrance flow plan for next year. *Status: Reducing the flows at the entrances looks slightly beneficial. The Corps has concerns about staffing and extra wear and tear on the equipment. Conder had concerns about remembering to change to flow back. The lamprey task group would have to do a change form to make this permanent.*
		8. **[December 19] 19BON65 MOC PH2 OWS installation** - ACTION: Hausmann will follow up on making sure that the outages have been removed from the outage schedule. *Status: Completed.*
		9. **[December 19] TDA AWS** *-* ACTION: Randall will follow up on if there is an alarm for flooding. *Status: There will be an alarm for flooding. However, the alarm will not forward to the control room just in the parking lot. The AWS is not available right now.*
		10. **[December 19] BON BI dredging -** ACTION: Mackey will follow up with BON next week to see where they are at with the dredging contract. *Status: The UFR was approved but NWP did not have the money. The project is waiting to see if the funding comes through.*
		11. **[December 19] TDA dewatering -**ACTION: Randall will make sure the PM on the pumps are being completed.*Status: Completed. Cordie sent an MFR on the maintenance. Lorz asked about a pre-check before the dewatering. Cordie said they did test the pump but it still didn’t work. The sturgeon mortality occurred because the pumps weren’t adequate so they added the sump pump to pump the water faster. Cordie now added not to use the sump pump to the SOP. The timing of the dewatering is difficult because of the number of pumps that work and how large the system is.*
		12. **[November 19] Lamprey Update -** ACTION: Lorz will ask the lamprey task force about the entrance flow plan for next year.Status: Reducing the flows at the entrances looks slightly beneficial. The Corps has concerns about staffing and extra wear and tear on the equipment. Conder had concerns about remembering to change to flow back. The lamprey task group would have to do a change form to make this permanent. *Status: Lorz would like to implement this strategy permanently and needs to write an FPP change form. Conder has concerns about flows not returning to salmon criteria. He wants there to be a fail proof method like automatic settings not an additional step in an SOP. McClain said that research shows that the lamprey find the ladder at an increased rate but they do not ascend any faster. He also noted that lamprey fall out at a higher rate. Lorz said that getting the lamprey into the ladder at an increased rate is a benefit. Working on passage through the rest of the ladder can be the next step. McClain said that U of I research shows that making improvements higher up in the ladder leads to a higher success rate. Cordie wants to look at how often the turbines were backed off compared to dropping the weir to reduce the flow and compare that to the lamprey passage. Cordie will pass on the turbine data to U of I and CRITFC. TDA is putting in new SCADA system that they can program to drop and raise the weirs. The east entrance should be completed this year and the west and south will be completed next year. Neither TDA nor BON found the wear and tear to be a big issue for them. Conder wouldn’t have concerns if the flows return to salmon mode. The lamprey task group has no plans for JDA entrance flow adjustments yet.*
2. **Updates**
	1. **NWW**
		1. Upcoming maintenance/construction/research activities.
			1. FPOM outages schedule (Setter)
			2. 2015 MCN TSW ops? (requested by Bettin)
			3. LGS backup cooling pump (Setter)
			4. LWG SW PIT testing detections (Hockersmith)
			5. LWG adult trap temp- w & w/out cooling upgrade vs PDS (Peery)
	2. **NWP**
		1. Upcoming maintenance/construction/research activities.
			1. 19BON18 MOC CI Subsidence Project
			2. 19BON56 MOC PH2 OWS installation
			3. 20BON03 MOC Spill for Rock Removal
			4. 15TDA08 MOC Transformer Installation
			5. 19TDA04 MOC Crane rail Replacement
			6. 19TDA19 MOC East/North Ladder dewater overlap
		2. BON BI exit dredging
		3. BON Whooshh scanner
		4. BON ITS gate
		5. BON AFF
		6. BON LFS
		7. TDA AWS
		8. TDA trunnion pin
		9. JDA south turbine pump #3
		10. JDA north pumps
		11. Dewatering activities
			1. BON
			2. TDA
			3. JDA
	3. **Research/FFDRWG updates.** <http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html>
		1. **NWP FFDRWG**
		2. **NWW FFDRWG April 23**
	4. **RCC update**

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| **Project** | **Previous day average (kcfs)** | **5 day forecast average (kcfs)** | **10 day forecast average (kcfs)** | **Projected Low/Peak (kcfs) and date.** |
| **LWG** |  |  |  |  |
| **MCN** |  |  |  |  |
| **BON** |  |  |  |  |

**Table 1. RCC flow forecast**

* 1. **BPA update**
	2. **Fish Count Program- QC update (Peery, Wertheimer)**
	3. **Pinniped update**
		1. **BON**
		2. **Willamette Falls**
	4. **Lamprey update**
1. **Invasive species discussion (Setter)**
	1. **Lake Roosevelt mgmt update – northern pike (Colville tribe)**
2. **Coordination/Notification forms (need concurrence/discussion)**
	1. **20 DWR 01 Unit 1 Exciter**
	2. **20 IHR 01 MFR-Fish mortality during dewatering of upper south fish ladder**
	3. **20 IHR 02 MFR-South shore AWS pumps repairs**
	4. **20 LGS 01 MFR-Adult steelhead mortality**
	5. **20BON04 MOC Cascade Island Lamprey Trap Location**
	6. **20BON05 MOC BI Relocate Lamprey Refuge Boxes**
	7. **20BON06 MOC BI Installation of Pucks for Lamprey**
3. **Fish Passage Plan:** All 2020 FPP change forms and draft chapters/appendices are posted at: [http://pweb.crohms.org/tmt/documents/fpp/2019/changes/http://pweb.crohms.org/tmt/documents/fpp/2020/changes/](http://pweb.crohms.org/tmt/documents/fpp/2020/changes/)
	1. **Pending Change Forms:**
		1. 20BON001 **–** Ladder Temperature Monitoring (Kovalchuk)
		2. 20BON002 – PH2 Mid-Range (Bettin)
		3. 20LGS003 – Surface Velocity (St. John, Setter)
		4. 20AppG001 – Adult Trap Water Supply (Peery)
		5. 20AppG002 – Adult Trap Water Temperature (Peery)
	2. **New Change Forms:**
		1. 20JDA002 – Turbine Range Table for Locked-Blade Units
		2. 20MCN003 – Turbine Range Table for Locked-Blade Units
		3. 20LMN005 – Turbine Range Table for Locked-Blade Units
		4. 20LWG003 – Turbine Range Table for Locked-Blade Units
	3. **2020 FPP Production Schedule**:
		1. Friday, 2/14/20: drop dead due date for approved change forms and Appendix A submissions in order to be included in the print copy;
		2. Sunday, 3/1/20: start date of 2020 FPP. Print copies will be shipped to Corps project and district staff by this date;
		3. Thursday, 3/12/20: print copies for FPOM reps distributed at the meeting (unless otherwise arranged).
4. **Task Group Updates.**