**Fish Passage Operation and Maintenance (FPOM) Team meeting**

**Condition Sub-sampling Task Group after FPOM.**

17 December 2015 0900-1400

NOAA offices.

1201 NE Lloyd Blvd. Suite 1100. Portland, Oregon 97232

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

Documents may be found at: <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

**Holiday gathering at Culmination Brewing (after the Task Group meeting).**

**2117 NE Oregon Street**

1. Approve November meeting minutes. (Mackey)
2. **Action Items**
	1. NWW Action Items
		1. [Nov 15] MCN FOGs. **ACTION:** Setter will provide FPOM an update every couple of months. Open FOGs will be added to FPP Figure MCN-1 (see change form 16MCN001).
		2. [Nov 15] LGS temperature monitoring in the scroll case. **ACTION:** Setter will coordinate with Pinney and Burgess regarding the scroll case temperature monitoring.
		3. [Nov 15] DWR hatchery de-gassers. **ACTION:** Skalicky will check with USFWS hatchery to see how the new de-gassers are working and if they plan to test them.
	2. NWP Action Items.
	3. Completed Action Items or to be discussed later in the agenda.
		1. [Nov 15]15BON87 PH1 main unit breaker replacement. **ACTION:** Gibbons & Hausmann update MOC with proposed 15 April, proposed unit priority, flow data and resend. ***STATUS:*** *Approved. FPOM requires further testing of PH1 unit priority.*
		2. [Nov 15] Pinniped Hazing. **ACTION:** Van der Leeuw and Gibbons will update the USDA task order. ***STATUS:*** *FY16 hazing will begin in March with hazing of Tower Island*.
		3. [Nov 15] TDA Fish unit outage. **ACTION:** Mackey will send winter counts for TDA to Cordie for inclusion in the MOC. ***STATUS: completed.***
		4. [Nov 15] JDA Avian Array. **ACTION:** JDA avian array needs to go back to FFDRWG for review and potentially redesign. ***STATUS:*** *CRFM funding will be used to look at the avian array issues.*
3. **Updates**
	1. NWW Updates.
		1. Upcoming maintenance/construction/research activities.
			1. FPOM OUTAGES schedule available on the web site.
		2. Wasco crane failure update

* 1. NWP Updates
		1. Upcoming maintenance/construction/research activities. Includes already coordinated MOCs.
			1. NWP winter maintenance schedules (available online)
			2. 15BON02 T11 and T12 outages.
			3. 15BON06 CI fish valve repair.
			4. 15BON87 PH1 main unit breaker replacement. Still need to discuss PH1 unit priority.
		2. CI subsidence.
		3. JDA-N AWS testing.
	2. Research/FFDRWG updates. [www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html)
	3. RCC update.

 **Table 1. RCC flow forecast**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Project** | **Previous day average (kcfs)** | **5 day forecast average (kcfs)** | **10 day forecast average (kcfs)** | **Projected Peak** |
| **LWG** |  |  |  |  |
| **MCN** |  |  |  |  |
| **BON** |  |  |  |  |

* 1. Pinniped Update.
	2. Lamprey updates.
	3. Avian.
		1. TDA Gulls
	4. BPA updates.
1. **Coordination/Notification forms (need concurrence/discussion)**
	1. 15 LWG 025 JBS Primary Outfall Construction
	2. 13 LWG 17 Juvenile Fish Collection Channel Upgrade - UPDATE
2. **Fish Passage Plan:** The Draft 2016 FPP and Change Forms are online at: [http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/](http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2014/changes/index.html).
	1. Pending FPP Change Forms.
		1. 16TDA001 – Ladder Crowding. Pending Task Group recommendation.
		2. 15IHR008 – Low Flow Spill Patterns. Revised based on ERDC trip and will be resubmitted as **16IHR001**.
		3. 15LMN004 – Low Flow Spill Patterns. Revised based on ERDC trip and will be resubmitted as **16LMN001**.
		4. 16LWG001 – Low Flow Spill Patterns. Revised based on ERDC trip.
	2. New FPP Change Forms.
		1. 16BON001 – Spill Pattern Rates Calculated to Tenths.
		2. 16BON002 – PH2 Mid-Range Operation.
		3. 16TDA002 – Trashracks
		4. 16TDA003 – Water Temperatures
		5. 16TDA004 – Entrance Criteria
		6. 16TDA005 – Reporting
		7. 16TDA006 – PUD-Trashraking
		8. 16MCN001 – Figure MCN-1 Added FOGs
	3. Potential FPP change forms.
		1. Digital governor testing.
		2. B2 Turbine blade angle. Fredricks said there will be one. It will be a soft constraint. There is a strong recommendation from COE-ERDC staff that the lower 1% is adverse for fish passage. Fredricks and Meyer will produce a report (distributed October 13).
		3. Appendix B **–** Transport. Revise truck transport minimums if supported by data analysis to determine likely effects, including frequency and duration. Wagner will request NOAA Montlake to look at the data.
3. **Task Group Updates.**
	1. New Task Groups.
		1. BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team members include: Bettin, Ebner, Hausmann, Mackey, Rerecich, Wright. Report from Laurie, waiting for ERDC information
		2. Load Shaping Guidelines (Bettin). Team members include: Fredricks, Mackey, Wright. Bettin is still figuring out if he is allowed to edit Appendix C (last modified in 1995). FPOM believes this will be delayed until next year.
	2. Active Task Groups.
		1. Adult counting. (Wertheimer/Zorich and Moody) <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Fish%20Counting/>
			1. TDA count window modsZorich would like to test more lighting conditions in 2016.
			2. Normandeau Associates has been selected as the fish count contractor.
		2. Condition monitoring. (Lorz, Conder). <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Condition%20Monitoring/>
			1. Team members include: Benner, Bettin, Chockley, Fredricks, Mackey, Morrill, Setter.
			2. **This group will meet after the December FPOM meeting**. Review memo and prepare to discuss. IHR, Lorz/Conder; (more to come in December). Setter asked if there is material to read prior to the meeting. Fredricks said he will be providing a NOAA recommendation.
		3. TDA adult flows. (Cordie) <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20TDA%20split%20flows/>
			1. Team members include: Bettin, Cordie, Fredricks, Lorz, Mackey, Rerecich, Skalicky, Wertheimer.
			2. **UPDATE:** The task group met after the November FPOM meeting. Fredricks submitted a Change Request Form to the FPP on behalf of the task group. Change Form: 16TDA001 – Adult Ladder Crowding.