

MEMORANDUM FOR THE RECORD

Subject: DRAFT minutes for the 11 February 2021 FPOM meeting.

The meeting was held via WebEx. In attendance:

Last	First	Agency	Email
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1. Final decisions or recommendations made at this meeting

- 1.1. January FPOM minutes – pending further review by Morrill and Lorz
- 1.2. Ebel indicated IDFG has summarized walleye sampling at LWG and is willing to share that information. This will be an agenda item for March.
- 1.3. 18TDA03 MOC Transportation Channel Partial Grating Coverage. TDA would like to cover one bay door width (85'). Lorz has concerns about the shadow casting and the impact it might have on adult passage. Cordie said there is a lot of diffuse light since the grating is not the only source of light into that channel. Cordie didn't believe there was any direct light into the channel. FPOM did not object to moving forward.
- 1.4. FPOM is frustrated with the multiple surveys for the BON rock removal, especially since this has been done twice already.
- 1.5. FPOM is frustrated that the rock removal contract continues to start work so late in the winter maintenance period and impacts other actions needed for fish protections.
- 1.6. Fielding clarified that the MOC is for COVID restrictions and the opportunity to start earlier in the day to accommodate lamprey collection will be realized without deviating from the COVID protocols. FPOM was agreeable to a normal sample week the first week of March.
- 1.7. 20 JDA 21 MOC COVID-19 Daytime condition sampling proposal. Approved!
- 1.8. FPP change form status - <http://pweb.crohms.org/tmt/documents/fpp/2021/changes/>

2. Please follow this link to find the documents provided or discussed at the 11 February 2021 FPOM meeting.

http://pweb.crohms.org/tmt/documents/FPOM/2010/2021_FPOM_MEET/2021_FEB/

3. Action Items

3.1. NWW

3.2. NWP

3.2.1.[February 21] JDA sampling for lamprey – starting at 0300 on weekdays when sampling will occur. **ACTION:** Martinson will seek approval from the SMP program manager for the early hour start time. *STATUS: I have confirmation from FPC and my program manager that we can work outside of our normal schedule for lamprey collection at John Day in March of 2021. Greg will plan to process samples each hour to generate what little detail can be gained by doing that. Depending on abundance of both lamprey and salmon, he will adjust both sample rate and sample processing as needed to accomplish goals as previously stated. Perhaps you could add this to the minutes as a post meeting update. Thanks, Rick Martinson*

3.2.2.[February 21] MacDonald and G. Smith will reach out to McDowell to talk about what is bird survey is funded after the FPOM meeting (i.e. large scale gull survey?). van Dyke

asked if that info could be shared with the entire group. **ACTION:** MacDonald will share the funded survey info with FPOM.

3.2.3.[February 21] BON ITS endgate. Conder requested finding a way to have chain gates 1A and 1B open. **ACTION:** Hausmann will have additional conversations with BON to see what the options are for having those gates open.

3.2.4.[February 21] BON ITS endgate. **ACTION:** Kuryachy will look at July/August for inspecting the gate slot.

3.2.5.[February 21] CI PIT tag antennae electrical work. **ACTION:** Hausmann will let Warf know when that work will be completed so PITAGIS can be on-site to assist as needed.

3.2.6.[February 21] BON rock removal. FPOM questions the need for another survey. Why is this needed and why is this work occurring so late in the winter maintenance season? **ACTION:** Hausmann will report back next month with the details.

3.2.7.[December 20] 18JDA02 MOC Trash rack replacement. **ACTION:** Fielding will determine leading edges will be rounded and report back in February. *STATUS: will round to 1/16 in.*

3.2.8.[December 20] 20TDA14 MFR Fish Unit 2 oil spill. **ACTION:** Hausmann and Cordie will provide information about their prospective oil accountability programs for posting to the FPOM website.

3.2.9.[August 20] TDA Turbine Dewater Sturgeon SOP (6' and greater) - ACTION: We will have a more detailed discussion once SOPs from the Project Bios for removal and/or leave fish in place are developed.

3.3. Completed Action Items or to be discussed later in the agenda

3.3.1. 20IHR08 MOC Floating Guide wall Cable Replacement.

3.3.2. 20LGS16 MOC Powerhouse Roof Repair.

3.3.3. [December 20] TDA Sluiceway cover. **ACTION:** Cordie will send photos of sluiceway cover. *Update: Cover has been installed. Pictures emailed to FPOM.*

3.3.4. [January 21] TDA Ice Trash Sluiceway operations for Fifteenmile Creek Steelhead. **Action:** Bellerud & Cordie will Co-chair a new Task Group. Cordie will reach out to Derrek Faber (ODFW) to see if he'll join Task Group. *STATUS: Meeting occurred on 4 February.*

3.3.5. [November 20] TDA East Exit boundary. Cordie – wants to move the BRZ away from the new AWS intake to prevent fishing boat entrainment. Waiting on Morrill to look at the regulations. Morrill said he is aware but was not able to follow up last month. **ACTION:** Morrill will review the WA regulation and report to FPOM. *STATUS: discussed under NWP updates.*

3.3.6. [December 20] BON ITS gate – Conder wants to see the 30% design and provide comments at there is PIT detection associated with this action. **ACTION:** Hausmann will find out if work can be done during the in-water work window and try to coordinate FPOM reps attendance of PDT meeting. *STATUS: Discussion regarding the ITS work will occur at the February FPOM meeting.*

3.3.7. [December 20] BON WA SH serpentine PIT antennas - ACTION: Warf will coordinate PIT antenna install and additional dewatering with Hausmann. *STATUS: completed.*

4. Updates

4.1. NWW

4.1.1. Upcoming maintenance/construction/research activities.

4.1.1.1. 20IHR08 MOC Floating Guide wall Cable Replacement. On-going but a little bit behind schedule. The contractor is working seven days a week. Lorz asked if impacts will be mitigated with changes to spill. Peery said they have thought about that and can shift to later in the week.

- 4.1.1.2. MCN spring overshoot schedule. Shutters said this is replicating the 2019 study and falls within FPP criteria. Tuesday morning is when transducers are expected to be installed. The TWS route is covered but don't have intakes 1 and 2 covered.
- 4.1.2. Invasive species. Peery talked with ODFW and WDFW about:
 - 4.1.2.1. Dealing with new non-native species – remove and report when caught.
 - 4.1.2.2. Dealing with established non-native species – WDFW is leaning towards allowing removal of bass, walleye, etc during dam angling. ODFW isn't leaning in any direction but discussions are still occurring. Lorz asked what ODFW policy folks need to make a decision. van Dyke doesn't have an answer at this time. Ebel indicated IDFG has summarized walleye sampling at LWG and is willing to share that information. **This will be an agenda item for March.** Cordie asked if it was just walleye, or did it include bass. Ebel said in 2020 all walleye caught in the trap were lethally sampled but he doesn't know if bass were caught in the trap. C. Petersen said T. Marsh provided a chart and she would try to find that document. Ebel said IDFG is most concerned about walleye because they want to track and prevent colonization of walleye in areas in Idaho so they likely wouldn't request to remove bass at this time. Holdren said they do see bass in the trap.
 - 4.1.2.3. Removing juvenile shad from the system – this will be discussed during the pre-work meetings. Will removal be a distraction from the sampling program? There isn't a clear answer since it depends on what removal will entail.
- 4.1.3. NWW winter maintenance and dewatering activities.
 - 4.1.3.1. LGS and LWG are watered up. St. John hopes to have two of the three pumps up today. Holdren said LWG has been watered up since 21 January.
 - 4.1.3.2. Morrill brought up changes to the RSWs and requested an update. Warf didn't have an update but explained that the conduits under the ConEx box had come loose and creates arcing, which shuts down the PIT tag antennas. There were a few other minor mods needed, such as drain holes to stop the water from shooting out of the conduits and onto the electronics. Holdren said the maintenance crew hasn't gotten to this work but will have it completed before water-up.

4.2. NWP

- 4.2.1. Upcoming maintenance/construction/research activities.
 - 4.2.1.1. 15TDA08 MOC Transformer Installation. Finishing up. Fish Unit went to T1.
 - 4.2.1.2. 18TDA03 MOC Transportation Channel Partial Grating Coverage. TDA would like to cover one bay door width (85'). Lorz has concerns about the shadow casting and the impact it might have on adult passage. Cordie said there is a lot of diffuse light since the grating is not the only source of light into that channel. Cordie didn't believe there was any direct light into the channel. **FPOM did not object to moving forward.**
 - 4.2.1.3. 19TDA04 MOC Crane rail Replacement winter (21/22). Still on schedule for next year.
 - 4.2.1.4. TDA Fish Unit replacement. Bellerud asked for the status on the fish unit replacement. Cordie said everyone is aware that the AWS must be functional BEFORE taking the fish units out of service.
 - 4.2.1.5. 20TDA10 MOC PUD Smolt Bypass Extended Outage. Invitation to bid was sent out last week. Waiting on bids from contractors.
 - 4.2.1.6. 18JDA02 MOC Trash rack replacement. Hoping to have award by 30 April. Plan is to build new racks for one unit, take out the old racks and inspect. Fielding will update with a schedule once he receives it. The work will be replacement in-kind but with more support brackets.
 - 4.2.1.7. 20JDA04 MOC STS crane replacement. No update.

- 4.2.1.8. 20JDA14 MOC Line 1 outage – BPA transmission work. Delayed until further notice.
- 4.2.1.9. 21BON002 MOC Spillway B-branch attraction water outage for rock removal. Scheduled to start 22 February. Want to do a pre-construction survey with no attraction flow from bay 18 on 18 February for up to 4 hours. Bay 1 is already OOS due to winter maintenance. van Dyke asked why there is a need for another survey. Hausmann does not have an answer except that it appears to be in the contract. **FPOM is frustrated with the multiple surveys, especially since this has been done twice already.** ACTION: Hausmann will report back next month with the details.
- 4.2.1.9.1. Hausmann asked about not putting the avian lines back at the B2CC. There doesn't seem to much impact to leaving those down and BON has had several osprey hit the lines. Lorz said he would be more receptive when lethal take is in effect. The same crew that installs the wires also do nav lock maintenance. The B2CC needs to be OOS to install the wires. Is FPOM comfortable having the spillway and/or B2CC OOS for wire installation? Installation will take about a week. Lorz asked if BON has considered re-designing the B2CC lines. He stressed that the new BiOp is leaning heavily on O&M and focusing on ways to help reduce or streamline O&M will be critical. Hausmann suggests looking at bird behavior before spending funds on re-designing lines. Morrill asked about additional hazing and assessing the effectiveness of the lines.
- 4.2.1.9.2. Lorz also stressed that rock removal work needs to be done earlier so there is time to get wires reinstalled. **FPOM is frustrated that the rock removal contract continues to start work so late in the winter maintenance period and impacts other actions needed for fish protections.** Lorz asked how long this work will take. Hausmann said the assumption is that this is a one day job and is the smallest amount of rock that has been removed.
- 4.2.1.9.3. Bettin will be submitting a FPP change form to change the trigger for moving turbines back to upper 1%.
- 4.2.1.10. 21 BON 001 MOC Navigation Lock 1 (old navlock) Bridge Replacement.
- 4.2.2. BON Cascade Island PIT tag antennas. These have been installed. BON is waiting on a UFR for their portion of the work. PITAGIS is waiting to finish their work once the electrical is installed. ACTION: Hausmann will let Warf know when that work will be completed so PITAGIS can be on-site to assist as needed.
- 4.2.3. BON WA SH serpentine PIT tag antennas. Done. The new ones fit better than the originals. Will be functional next week.
- 4.2.4. BON Aqui-S update. BON drafted a letter for NWP concurrence. Lorz said CRITFC is waiting for a copy of the letter so their crews can get started. Should be ready by next week.
- 4.2.5. TDA AWS trash rack. Kick off meeting occurred. More info will be coming.
- 4.2.6. TDA Sluiceway cover. Pictures of compete cover posted to the 2021 Feb FPOM folder.
- 4.2.7. TDA East Exit boundary. Morrill and Cordie have been working on a map.
- 4.2.8. TDA trunnion pin. Via email from Michael S Colesar, on 1/28/2021 "Gate 9 trunnion would be part of a larger project to completely rehab Gates 1-9. SAP shows Start in 2031, Construction 2034"
- 4.2.9. JDA north pumps (#4 out). No update.
- 4.2.10. JDA spill bay 10. Still in manual.
- 4.2.11. NWP winter maintenance and dewater
- 4.2.11.1. JDA. Working in the south ladder and expect to water up after next week.
- 4.2.11.2. TDA. Working on fishway automation and plan to be watered up next week.
- 4.2.11.3. BON. Finishing up and planning water up next week.

4.3. NWS (Seattle). Cousins reported that funding for the Albeni Falls Dam Fish Passage Facility was now approved and in the design phase. Staff are currently working to complete an engineering valuation study. She expected that construction would not start until about 2024. Cousins also reported she is working to assist the Chief Joseph Dam (CJD) on updating the SOP for turbine dewatering and fish rescue activities. Swank noted that Cousins should probably be working with Erin Kuttel regarding the update to the CJD SOP. Cousins said she had been in contact with Steve Lewis. Conder noted his name needs to replace Gary Fredricks on documents for coordination.

4.4. Research/FFDRWG updates.

<http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html>

4.4.1.NWP FFDRWG. Written updates were sent last week. Next meeting is 4 March.

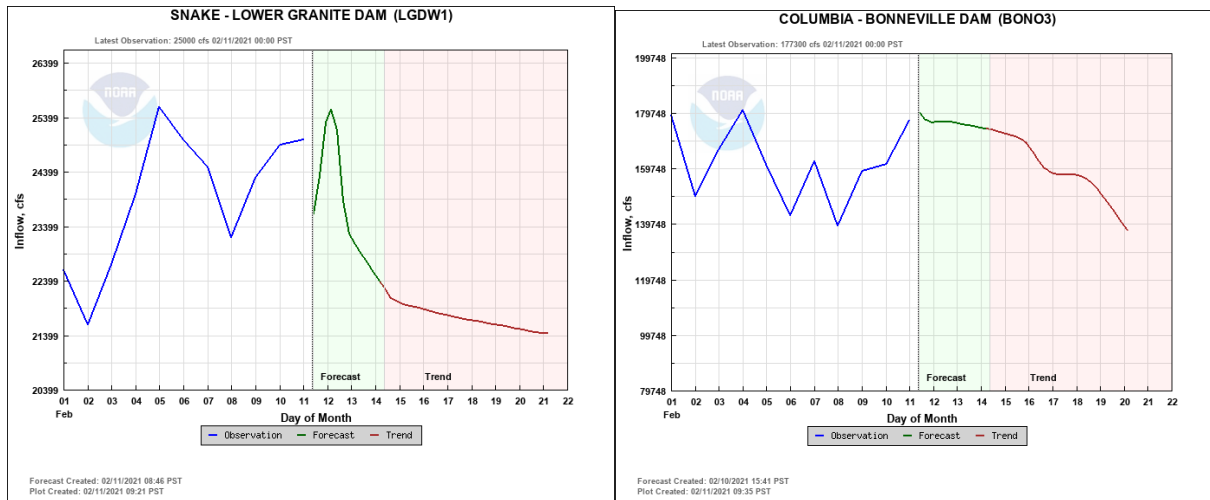
4.4.1.1. SRWG kickoff for FY22 cycle will be 16 February.

4.4.2.NWW FFDRWG.

4.5. RCC update

Project	Previous Day (2/10) Average Outflow (kcfs)	5 Day (2/15) Forecasted Inflow (kcfs)	10 Day (2/20) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs) and Date.
LWG	24	22	21	21 (2/20) / 26 (2/12)
MCN	162	162	124	124 (2/20) / 166 (2/11)
BON	181	172	138	138 (2/20) / 180 (2/11)

Table 1. RCC flow forecast.



4.5.1.Chum operation. No change to the operation. Currently implementing the chum incubation operation. This operation is expected to continue until 9 April.

4.6. BPA update. Bettin is working on the sheet but nothing significant to discuss. JDA line 2 is still on track for going out of service March 26th. Morrill asked about a brief change in ops out of BON. Bettin said they were storing water ahead of this week's cold weather.

4.7. Fish Count Program update (Peery, Wertheimer). Annual meeting was held last week. Counting begins on 1 March at BON, LGS, and LWG.

4.8. Pinniped update

4.8.1.BON. Low numbers. Pinniped report will be ready for regional review at the end of February.

4.8.2.Willamette Falls. No update.

4.9. Lamprey update. Prepping for count corrections in 2021.

5. **BON ITS. (10:00)** Artem Kuryachy (PDT) discuss what is needed to get the ITS gates reinstalled.

5.1. Kuryachy provided a brief history. The new gate will be in-kind but have improved features to help reduce the opportunity for the gate to seize in the future. The slot needs to be inspected to know if the slot needs to be repaired prior to getting the gate installed. The request is for an ITS dewatering on 10 May to allow engineers to inspect the slot. To dewater the ITS BON will need to bulkhead the chain and automated gates, cinder the bulkheads to keep the channel dry, and install pumps. Doing this work in the winter is not feasible due to the need to use the ITS for sluicing forebay debris and potential hypothermia. 10 May is the latest date the team could get in there and still get the contract awarded on time for installation in winter 21/22.

5.1.1. Conder noted that this is the first he has heard about a hypothermia risk causing a shift in the timing of in-water work at the projects. He also noted that April/May is our highest flow period as well as the highest juvenile passage. Closing the ITS during this time is the absolute worse time, from a fish perspective. March would be a better time.

5.1.2. Bettin suggested August would be the best time since the powerhouse is normally not in use. Kuryachy said the limitation with August is that there isn't time to get the contract awarded and the gate installed in the winter of 21/22. Bettin asked if the gate could be installed in August 2022. Conder said he could support that but we have been without the ITS for about three years now and he would like to see the first two gates open until the ITS gate could be replaced.

5.1.3. Hausmann explained that the ITS channel is different than working in the ladder. You are working at the bottom of the channel and the bulkhead leaks send a shower of cold river water on anyone in the channel.

5.1.4. Conder said he understands but wants to look at manually opening and closing ITS gates 1A and 1B. He also is sympathetic to the hypothermia however May is a no-go. He can work with August. Bettin asked what the intent of the first two chain gates would be. Conder said we lose effectiveness by not having those gates open since Unit 1 is the priority unit. Having high flow in the corner is the most effective and moving the open gates to the center isn't as effective. Conder is fine with August but wants the chain gates open. There is an hour response time as it is and BON is concerned about that time being too long when there are people in the water in the forebay. 1A is open at 70' and 1B is open at 68'. **ACTION: Hausmann will have additional conversations with BON to see what the options are for having those gates open. ACTION: Kuryachy will look at July/August for inspecting the gate slot.**

6. Avian updates (10:30)

6.1.1.NWW. Peery shared a schematic of the echo zone. He explained a new LRAD avian deterrent is being tested at MCN. It is battery operated and sends out a scheduled amount of time of noise, which echoes off the spillway. This unit will be tested in 2021. The testing may not be a quantitative test, but data will be gathered to the extent personnel and time allow. Peery still has more work to do but this is a glimpse into what may be coming. Lorz asked what the next steps would be since this test seems to be very focused in a narrow area. Peery said this is a planning phase and MCN understands that if an alternative to wires cannot be proven effective, the project will need to plan on installing an avian array. Morrill suggested using some smolt monitoring personnel to help monitor the LRAD effectiveness.

6.1.2.JDA. Low bird numbers (about 20), dominated by cormorants.

6.1.3.TDA. Low bird numbers with only a handful of gulls sitting on the spillwall. Cordie talked about the increase in gulls this last season. In 2020 there were 150 birds/day. The PIT tags collected from the fish ladders has been entered into the PITAGIS.

6.1.3.1. Bill Sharp called in and reported that he has been assigned the Miller Rocks Island issue. He will be funded to deploy some green lazars on the rocks and to investigate the ownership (leaning towards BLM) and other issues more in-depth. He will be attending the Avian Task Force meetings as well. YN technical staff has directed Sharp to move forward with coordinating with regional partners to deploy lazars. He doesn't have funding for M&E and will rely on the regional partners to help track start up colonies and gull response. Sharp will talk with McDowell about limitations to when deployment may occur.

6.1.4.BON. Low bird numbers.

6.1.5.Estuary. Have permits in place. Preparing staff to do a March mobilization on the islands. Testing the green lazer on Rice island to test effectiveness. van Dyke asked about large scale gull surveys, such as the flyway surveys. McDowell said the Pacific Flyway is focused on terns and cormorants. The CATE survey is planned for this coming year. The broader survey will be added to the TG agenda. The PRCC hasn't funded anything for 2021 yet. MacDonald and G. Smith will reach out to McDowell to talk about what is funded after the FPOM meeting. van Dyke asked if that info could be shared with the entire group. **ACTION: MacDonald will share the funded survey info with FPOM.** Lorz asked if there would be a report from the PIT tag work completed on ESI in 2020. Tidwell reported that the data was shared with RTR and PME is working on a contract for analysis. Sullivan said the report associated with the BPA funded actions is expected at the end of May. McDowell asked if PIT tags were collected from the cribs at the base of the Astoria-Megler bridge. Sullivan said the tags were collected and uploaded into PITAGIS. She noted the effort could have been more successful if it had been completed earlier, before nests were damaged.

7. Early Juvenile by-pass start up

7.1. JDA plan for early start and SMF operation. Fielding reported that JDA is planning to drop screens starting 1 March. There have been discussions regarding sampling to assist tribal lamprey collection. There will be nine days in March when sampling will start at 0400. Once 100 salmonids are collected, the sample will be turned off. Porter asked if the start time is supposed to be 0300. Fielding was agreeable to that earlier start time. G. Kovalchuk expressed concerns about starting early without a couple of normal sample days. He is concerned we could be inundated with fish. He proposes normal 0700 – 1300 sampling for the first week of March so PSMFC could get a feel for how many fish will be coming. Also, early start time for PSMFC is a call that the SMP program manager has to make. **FPOM was agreeable to a normal sample week the first week of March. ACTION: Martinson will seek approval from the SMP program manager for the early hour start time.** Porter has sent an informal letter to FPC. Chockley asked for clarification about the days with the 0300 start. 0300 start times will only be on weekdays. 0700 start times will occur on weekends. van Dyke asked Bettin about operational flexibility during the sample times. Screened units will be the priority units.

7.2. MCN expects to start 13 March.

7.3. LWG expects to start 1 March.

8. Coordination/Notification forms (need concurrence/discussion)

8.1. 20 MCN 17 MOC T1 Oil Leak Repair. Still pending. Waiting to hear if gasket repair can occur at the same time as the Doble testing and BPA work.

8.2. 21 MCN 01 MFR JFF Early Start Delay. No additional comments.

- 8.3. 21 LMN 01 MFR Orifice Gallery Juvenile Mortalities.** Morrill asked if the morts were checked for PIT tags. Lorz asked what actions have been taken to prevent this from happening in the future.
- 8.4. 20 JDA 21 MOC COVID-19 Daytime condition sampling proposal.** Approved! With the adjustment to the start time to 0300, normal sampling during the first week of March, and early sampling occurring only on weekdays. Fielding clarified that the MOC is for COVID restrictions and the opportunity to start earlier in the day to accommodate lamprey collection will be realized without deviating from the COVID protocols.
- 9. Fish Passage Plan:** The 2021 FPP goes into effect March 1. Drafts and change forms are available online at: <http://pweb.crohms.org/tmt/documents/fpp/2021/changes/>
- 9.1. Pending Change Forms:** Wright shared her screen to discuss the following change forms.
- 9.1.1.** 21MCN002 – Spill Pattern Change (Gersbach, Peery). Revised per FPOM recommendations at the FPP meeting. Approved
- 9.1.2.** 21LGS003 – Unit 1 Special Op & Unit 6 Priority (Wright). Coordinated in-season for 2020; should we include in the 2021 FPP or manage in-season?
- 9.1.3.** 21LGS004 - ASW Crest During 30% Spill (Wright). Coordinated in-season for 2020; should we include in the 2021 FPP or manage in-season?
- 9.1.4.** 21LWG004 – RSW Operation in August (Wright). Coordinated in-season for 2020; should we include in the 2021 FPP or manage in-season? **Approved.**
- 9.1.5.** 21AppA001 – Doble Testing (Peery, Wright). Peery looking into whether LMN can delay T1 outage until August 1 or later. Schedule moved to 29 July – 13 August. **Approved.**
- 9.2. New Change Forms:**
- 9.2.1.** 21BON001 – Temperature Monitor Locations (Derugin). Posted 2-FEB. **Approved.**
- 9.3. 2021 FPP Production Schedule and Deadlines.**
- Friday, Feb 12, 2021 – LAST DAY to include approved FPP Change Forms and Appendix A submissions in the print version of the 2021 FPP.
 - By no later than Monday, Feb 22, 2021 – Final 2021 FPP available for download online @ <http://pweb.crohms.org/tmt/documents/fpp/2021>.
 - Monday, March 1, 2021 – start date of 2021 FPP. Print versions will be sent to staff that implement FPP operations (projects and BPA duty schedulers).
- 10. Task Group Updates.**
- 10.1.** Avian Task Force meeting (Cordie). The next task force will be before the March FPOM.
- 10.1.1.** <http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Avian%20Hazing/>
- 10.2.** Task Group Condition Monitoring (Lorz will be co-chair in perpetuity & Sullivan)
- 10.2.1.** <http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Condition%20Monitoring/>
- 10.2.2.** This group will be in a holding pattern until the broader SMP program has been discussed in FPAC and other forums.
- 10.3.** Task Group 15 Mile Steelhead Overshoots, TDA ITS operation dates. (Bellerud) Next meeting to be at 1315 on 11 February.
- 10.3.1.** <http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20TDA%20ITS%20operations/>
- 11.** Congratulations to Peery. Peery was selected to replace Ann Setters.