

MEMORANDUM FOR THE RECORD

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

The meeting was held via WebEx. In attendance:

Last	First	Agency	Email
Barnes	Chuck	NWW-ODO	Charles.A.Barnes@usace.army.mil
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Bettin	Scott	BPA	swbettin@bpa.gov
Conder	Trevor	NOAA	Trevor.Conder@noaa.gov
Cooper	Erin	FPC	ecooper@fpc.org
Cordie	Robert	NWP-TDA	Robert.P.Cordie@usace.army.mil
Cousins	Katherine	NWS	Katherine.L.Cousins@usace.army.mil
Ebel	Jonathan	IDFG	Jonathan.Ebel@idfg.idaho.gov
Fielding	Scott	NWP-JDA	Scott.D.Fielding@usace.army.mil
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Griffith	Denise	NWW	Denise.S.Griffith@usace.army.mil
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Thompson	Josie	NOAA	Josie.Thompson@noaa.gov
Tidwell	Kyle	NWP-FFU	Kyle.S.Tidwell@usace.army.mil
Trachtenbarg	David	NWP-PME	David.A.Trachtenbarg@usace.army.mil
Van Dyke	Eric	ODFW	erick.s.vandyke@state.or.us
Warf	Don	PSMFC	dlwarf@psmfc.org
Wendler	Jeanette	NWP- BON	Jeanette.C.Wendler@usace.army.mil

1. Final decision or recommendations made at this meeting.

- 1.1. Approve January Meeting Minutes (pending Morrill & Lorz)** – January minutes approved
- 1.2. Approve February Meeting Minutes** – February minutes approved.
- 1.3. 18TDA03 MOC Transportation Channel Partial Grating Coverage.** Cordie reports project has decided to add matts during freezing rain / winter and removed them when the weather improved.

2. Action Items**2.1. NWW**

- 2.1.1. [March 21]** McNary steelhead overshoot study – waiting on results. ACTION: Peery will share.
- 2.1.2. [March 21]** Little Goose count station modifications to reduce entrained air. ACTION: Peery will take to FFDRWG.
- 2.1.3. [March 21]** McNary juvenile fish facility late start. ACTION: Griffith will take request for early start in 2022 back to Project, Bobby Johnson (MCN).
- 2.1.4. [March 21] 21 LGS 01 MOC Unit Priority Change to Facilitate Debris Removal.** ACTION: Peery will report back to FPOM next month about path to re-design of debris boom.

2.2. NWP

- 2.2.1. [March 21]** Bonneville Spillway avian lines - ACTION ITEM – Hausman will check with the Project on schedule to see if a corner collector outage will be needed and get back to Bettin. Update: Corner collector outage was needed see 21BON MFR
- 2.2.2. [February 21]** MacDonald and G. Smith will reach out to McDowell to talk about what is funded flyway surveys after the FPOM meeting (gulls?). van Dyke asked if that info could be shared with the entire group. ACTION: MacDonald will share the funded survey info with FPOM. Update: USFWS does not fund flyway surveys for gulls. Does fund tern and DCCO.
- 2.2.3. [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. Update: Hausmann – crews say it is unsafe with chain gates open. Unable to close quickly enough. If we open 1A or 1B, if there is a disable vessel or whatever it will take them too long for the crews to get there to manually shut them down. Real world examples include over tuned kayaks with people in the water, fishermen have sunk a boat in the spillway, PHI forebay has had disabled vessels and people in the water. Overturned and/or motor failure. Van Dyke asked for more clarification. Hausmann – have not been opened since the chain gates opened. The auto gates are not being used as originally designed.
- 2.2.4. [February 21]** BON ITS endgate. ACTION: Kuryachy will look at July/August for inspecting the gate slot. Update: Hausmann said timing is still July/August.
- 2.2.5. [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. All above water work now. Waiting on funding to finish this job. Warf asked if there was any idea when funding will come through? Hausmann will check today with funding folks.
- 2.2.6. [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. Update: Cordie provided PowerPoint showing cross section of turbine relative to tailwater levels and posted it to the FPOM website. Van Dyke will look at .ppt and get back to Cordie with any questions.

2.2.7.[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. Cordie is waiting for legal review to make plans public. *Update: Tammy will post to FPOM website.*

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

2.3.1. [January 21] TDA Ice Trach Sluiceway operations for 15 Mile Creek Steelhead.

Status: Approved

2.3.2. [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.*

2.3.3. [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.*

2.3.4. [December 20] BON WA Shore serpentine PIT antennas - ACTION: Warf will coordinate PIT antenna install and additional dewatering with Hausmann. *STATUS: Antennas installed and accepted by Project Fisheries. Electric will follow on.*

3. Updates

3.1. NWW (Peery)

3.1.1. McNary steelhead overshoot study – waiting on results. **ACTION: Peery will share results with FPOM.**

3.1.2. Upcoming maintenance/construction/research activities.

3.1.3. McNary spillway crane repairs – Making repairs to crane 6 & 7. Working on 6 now, then will move to 7. They do not plan to use them on automatic mode again. This was the cause of initial problem and caused a gear box to catch fire. This will require discussion with the Flex spill patterns/tables. Peery suggest a follow on call to discuss this. Lorz is concerned about losing spill flexibility and the time it will take to get needed infrastructure in place.

3.1.4. Little Goose count station modifications to reduce turbulence. – Want to make structural changes to reduce entrained air and increase visibility, particularly for video which already causes visual degradation. Have already removed some grating and are building 3D model. Also looking to improve lighting, currently a single shop light. Lorz, Scott, and Warf talked about recent changes that may have increased entrained air and how to minimize it. **ACTION: Peery will take proposal to FFDRWG.**

3.1.5. Lower Granite adult fish trap updates – FFDRWG discussion about swing gate and reducing the number of shad that get into the trap causing stress on salmon & steelhead. At times 100's of shad in trap. Topic has come up in SRWG and FPOM. SRWG want to evaluate acoustic deterrents and/or physical barriers such as non-overflow weirs. Favored acoustic deterrent and are planning 1-pager for AFEP next year. Lorz is concerned about lack of funding and asks Peery to advocate for a fix. Conder confirmed, controlling shad is in the BiOp. Suggest SRWG needs to confirm there is no negative impacts to salmonids. Either a block study or other design. Conversation continued about potential locations to test shad exclusion.

3.1.6. Invasive species discussion (Peery). – Shad removal discussed by SMF folks, Biologic Services and condition sample during pre-work meetings. Not an issue to remove shad as they are separated out for counting purposes. Then could euthanize the shad with minimal work load impact. They do have questions about permitting. Cordie asked if they separate

out bass and walleye. Peery answered yes. Charlie said WA is comfortable with the removal of shad and if a permit is required did not think it would be a problem. Van Dyke said Oregon is lukewarm on shad removal.

3.1.7. Little Goose ASW repairs. Scott St. John talked about a problem with pressure transducer for the seal. New comms cable for PLC should allow normal operations.

3.1.8. NWW start of fish passage season water up of fishways. Peery – no issues.

3.1.8.1. McNary juvenile fish facility late start. Griffith – as the MFR explains delay has been caused by the rectangular brush that cleans the dewatering valves. Part was received, but was incomplete. Shipping took several weeks due to COVID-19 delays. Waiting on new part. Estimate first sample will be collected 20 April or earlier if part is received. Lorz – Stated frustration. We went from an early start up to a late start. Can we schedule and early start for next year? We will be operating w/o a condition sample and Lorz is concerned about potential debris issue. Lorz will raise non-monitoring issue at FPAC, asked if anyone had ideas about ways to monitor. Conder suggested more frequent cycling of orifices. Griffith said biotechs are on and in the channel every two hours checking for debris. Van Dyke asked how emergency by-pass impacts PIT detection. Griffith responded there are 4 screens down, fish are flushed into the channel and out to tailrace. There is no PIT detection. Van Dyke would like to see issue elevated as MCN is important for reach level PIT detection. Morrill asked about potential for short term PIT antenna install, maybe using flexible cable. Warf responded there is no good quick fix. **ACTION: Griffith will take request for early start in 2022 to Bobby Johnson (MCN).**

3.1.9. Denise Griffith is on a 120 day temporary detail, backfill for Peery's old position at NWW.

3.2. NWP

3.2.1. Upcoming maintenance/construction/research activities.

3.2.1.1. 15TDA08 MOC Transformer Installation. (Cordie) Work is pretty much done, cleaning up now. No other work that would impact fish passage.

3.2.1.2. 18TDA03 MOC Transportation Channel Partial Grating Coverage. (Cordie) Project has decided to add mats during freezing rain / winter and removed them when the weather improved. This can be removed from future agendas.

3.2.1.3. 19TDA04 MOC Crane rail Replacement winter (20/21). (Cordie) no new update

3.2.1.4. 20TDA10 MOC PUD Smolt Bypass Extended Outage. (Cordie) PUD is meeting with contractors for site visit next week. Then they will bid and PUD will move forward.

3.2.1.5. 18JDA02 MOC Trash rack replacement. (Fielding) waiting on contract award.

3.2.1.6. 20JDA04 MOC STS crane replacement. (Fielding) still on track for August of 2020.

3.2.1.7. 20JDA14 MOC Line 1 outage – BPA transmission work. (Fielding) delayed for a year. Bettin was uncertain but will confirm. Line 1 was done last year. (this can be removed from future agendas).

3.2.1.8. 21 BON 001 MOC Navigation Lock 1 (old navlock) Bridge Replacement (Trachtenbarg) scheduled for CY2023. No update

3.2.1.9. 21BON02 MOC Spillway B-branch attraction water outage for rock removal. Work complete. Morrill asked for volume of rock removed. *Update: email* from PDT (Colter Bennet): "Final total tonnage (unit of measurement for this version of the contract) was 396.84 tons." Hydro survey map of spillway and rock piles will be posted to the FPOM website (see top for link).

- 3.2.2. BON Cascade Island PIT. Hausmann – waiting on update for UFR request for above water work. He will check on funding timeline. Warf would like to run a extension cord to diagnose antennas (temporary power). Hausmann will work with Warf.
- 3.2.3. BON WA Shore serpentine PIT antennas. Hausmann said they look good. Warf reports the system is up and running, operating quite well. It is complete (can be removed from future agendas).
- 3.2.4. BON Aquí-S update. (Hausmann) Short term, circulating letter for CRITFC work. Long term NEPA folks are looking for potential disposal site. Lorz asked for confirmation that CRITFC work can in the AFF per usual this year. Yes, access letter will be approved when it is submitted.
- 3.2.5. TDA AWS trash rack.
- 3.2.6. TDA East Exit boundary. Morrill will visit after 2nd COVID-19 vaccine and decide where boundary line should be.
- 3.2.7. 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”
- 3.2.8. JDA north pumps. (Fielding) New MFR for new damage found below current parts. OOS for entire year. Will require floating plant, need to get estimate from project folks.
- 3.2.9. JDA spill bay 10. Currently it is operated manually, still under investigation.
- 3.2.10. NWP start of fish passage season water up of fishways.
 - 3.2.10.1. JDA. JBF SMF watered up on 2 MAR, Mon & Wed 0300-0900 lamprey sampling. Will continue for the month of March.
 - 3.2.10.2. TDA. Both ladders are up and running. One fish unit had an overheat issue and the AWS was used to keep in criteria. Bettin asked about ITS operation and Task Group. Mackey, “Where there any issues with the operation?” Cordie, “No.”
 - 3.2.10.3. BON. One Fish Unit and Unit 18 were down but should be back on-line today. There will be a follow on MFR. ACTION: Hausmann will submit MFR describing issue.

3.3. NWS (Seattle). From Katherine Cousins-

- 3.3.1. **Joseph Dam** is updating it’s FPP and turbine dewatering SOP hopefully by the end of month.
- 3.3.2. **Albani Dam** – fish passage facility value engineering study on going. Working to coordinate stakeholders (WDFW, Kalspel Tribe, IDFG, and USFWS) for how to operate fish passage facility (sorting and sampling). USFWS BiOp requires walleye, northern pike, goldfish, and brook trout will not be passed. Possibly holding back some trout hybrids as well. Bettin commented they may want to add alligator gar to your list. They have shown up at McNary. Katherine is encouraging longer term planning as fish passage facility could be in use for 100 years. Construction to start in 2024.

3.4. Research/FFDRWG updates.

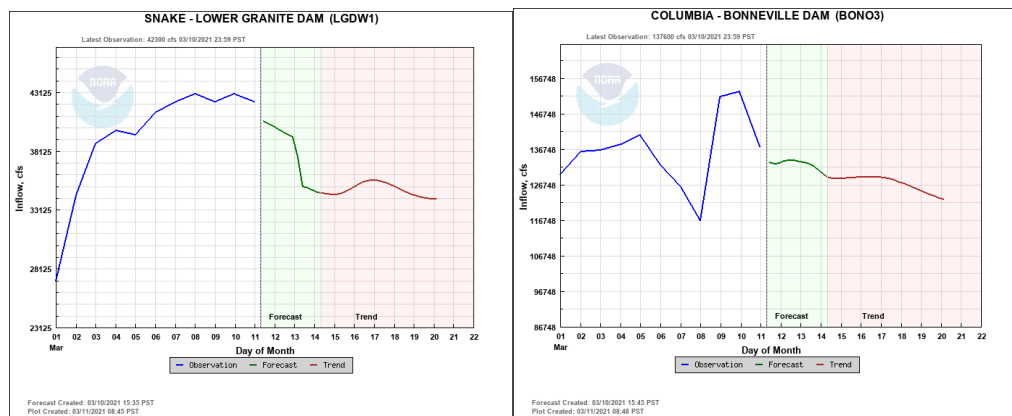
<http://pweb.crohms.org/tmt/documents/FPOM/2010/FFDRWG/FFDRWG.html>

- 3.4.1. **NWP FFDRWG**. (MacDonald) Kicking off WA shore serpentine section re-design. Replacing with straight weir similar to John Day. Working on placement of PIT antennas, site visit soon. Lorz stated, if cost increases too much Lamprey Accords group may not be able to support funding. MacDonald has a doodle poll out to schedule meeting on this topic.
- 3.4.2. **NWW FFDRWG**. No update

3.5. RCC update

Project	Previous Day (3/10) Average Outflow (kcfs)	5 Day (3/15) Forecasted Inflow (kcfs)	10 Day (3/20) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	43	34	34	34 (3/20) / 41 (3/11)
MCN	120	115	109	109 (3/20) / 119 (3/12)
BON	137	129	123	123 (3/20) / 134 (3/12)

Table 1. NOAA Northwest River Forecast Center inflow forecast.



3.6. BPA update. Bettin sent out spreadsheet with outage schedule.

3.7. Fish Count Program update (Peery, Wertheimer). Video counts at Bonn, LGS, and LWR so expect a few days lag prior to posting. Mostly steelhead as to be expected. Contractor provided a proposal to update lighting to facilitate better live counting as well as testing of AI cameras. Initial test for night time video went well when numbers were small. However, not working well for lamprey so we will still use video to count lamprey. Planning to replace spot lights with light bars to reduce window glare. Peery showed 5 slide PowerPoint showing glare. Bettin asked what kelvin the light operate at? Peery- does not have value off the cuff, they are dim able. Van Dyke asked if non-glare films have been tested? Peery – took note. At John Day he’s concerned additional lighting will occlude the view into the window. Asked contractor to determine minimum lighting need.

3.8. Pinniped update

3.8.1.BON. (Tidwell) Less than 5 Steller Sea Lions last several weeks. Daily abundance monitoring on-going. Few steelhead passing, waiting to hit 20 animal trigger to move to predation sampling. No Spring Chinook passing yet. Bettin asked if they have larger traps for Steller’s. Tidwell answered yes.

3.8.2.Willamette Falls. Van Dyke – nothing to report. Tidwell, “I did read ODFW has removed the 1st SSL at Willamette Falls.”

3.9. Lamprey update. Tidwell – we’ll start live monitoring April 1st.

3.10. Avian updates (10:30)

3.10.1. NWW Peery is working study design to evaluate lasers & LRAD speaker. Blocks have to conform to work schedules to turn deterrents on/off. Targeting mid-May when birds peak along with smolt passage. Boat hazing will be on-going. Current plan is to evaluate laser in

the spring and LRAD in the fall. Use repeat still photos to count birds. McDowell asked about timing of laser application. Peery responded dawn to dusk. McDowell responded that most studies show some effectiveness during low light condition, no effect during the day. Van Dyke is concerned the evaluation will not be robust enough. Doesn't like unblanced design to determine if this is effective. Would like to see known technology, such as avian wires installed instead.

3.10.2. JDA. Fielding, "Very few birds.

3.10.3. TDA. Cordie, "About 400 gulls in the tailrace. 4 to 5 times the number of gulls in a typical year."

3.10.4. BON. Hausmann, "Small numbers of gulls and cormorants."

3.10.4.1. Spillway avian lines – Hausmann, they are not up. Asked if a study would be required to not reinstall spillway or corner collector lines. McDowell (USFWS) asked why you would not install them? Hausmann responded the cost is high, ~\$1000 per line to reinstall. They are coming down most years to facilitate spillway rock removal and the benefit is unclear. Very few gulls foraging in the spillway or corner collector outfall. They tend to forage on sea lion kills. Lorz is concerned birds will learn to feed at the corner collector. Then more will show up. Relatively inexpensive insurance vs. trying to respond in-season when you can't put the wires up. Krasnow (NOAA) said it is a BiOp requirement so we expect the lines to be up. We can talk about future years, but for this year we expect those lines to be up. Hausmann commented that NavLock maintenance will be starting first couple weeks of March. We will try to get them up before spill, not possible after spill and corner collector is open. Bettin asked is lines can be installed with corner collector open? Hausman answered not the corner collector lines, it does not effect the spillway lines. The main line, which crosses the river, and corner collector lines attach too is ~1,200 feet long with floats attached and catches a lot of drag in the strong current there. Current boats are straining to pull the line. Bettin asked if we should start coordinating a corner collector closure to re-install the line.
ACTION ITEM – Hausman will check with project schedule to see if a corner collector outage will be needed and get back to Bettin.

3.10.5. Estuary - Tidwell

3.10.5.1. ESI –The one acre tern colony has been prepared. Lost of sand depositing on the south beach due to recently repaired pile dykes. Will place ropes and flagging there to prevent terns off colony nesting. No terns and very few gulls currently on ESI. DCCO – habitat modification is self maintaining. Not collecting woody debris or nest material. McDowell asked what the plans were for attracting DCCO (decoys & audio) from the birdge. Tidwell responded the Corps does not plan to attract DCCO to ESI. Could allow access for others. Mackey clarified it would have to be worked through real estate if you wanted to put anything on the island.

3.10.5.2. Rice – plan to deploy green laser inside east end bowl. Several large cotton woods (north of bowl) were used by eagles to nest have fallen down likely due to winter storms.

3.10.5.3. Miller & Pillar – potential nesting habitat has developed on both. Monitoring for terns & gulls there.

3.11. JDA plan for early start and SMF operation. – Covered above (Tammy - this can be removed from future agendas).

3.12. Dam angling and retention of non-native predators (Lorz requested update). Peery – under invasive species discussion. Morrill – WA is open to it, have to work with Oregon.

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

- 4.1. **21 LWG 01 MOC Unit Exciter Testing** (Peery) – Worked on Units 2 & 3, was scheduled 15-18th of March, out of priority. Status: Approved
 - 4.2. **21 LWG 02 MOC T2 Outage Extension.** Peery – No significant comments received, still open.
 - 4.3. **21 LWG 03 MOC FOG Operation.** Peery – Comments open until 18 March.
 - 4.4. **21 LGS 01 MOC Unit Priority Change to Facilitate Debris Removal.** Conder – we are in support of this operation to help deal with debris. However, we need to look out a redesign of the L. Goose debris boom, currently does not work, would like to see it operate more like LWG. Looking for Corps to develop a design internally and bring it to FPOM. Van Dyke thought we'd already tried this operation and it wasn't successful. St. John talked about problems with white structure and need for re-design. Bettin asked about appropriate wind direction. Van Dyke says it is impacting the conservation measure and wants . Lorz support the operation this time of year as it will not impact spill. **ACTION: Peery will report back to FPOM next month about path to re-design debris barrier.**
 - 4.5. **21 MCN (in progress) MOC Testing of pump #3.** Out of criteria for about 24 hours. Lorz asked for more than two days to comment. However, given how early we are in the adult passage season he's ok with the operation. FPOM generally concurred.
 - 4.6. **21 TDA 03 MOC The Dalles South Fishway Entrance Sinkhole Repair** (Cordie) Morrill asked about size of sink hole. Cordie responded about two feet. Bettin asked if a compactor will be used? Cordie responded yes, a small hand operated compactor. Lorz asked about the cause – Cordie thinks it is due to 50 years of settling. Van Dyke asked if they would dig out and re-fill. What if they discover a larger cavern under the ground? Cordie would bring the issue back to FPOM. FPOM generally concurred that the work should be done quickly prior to the start of the Spring Chinook run.
 - 4.7. **21 JDA 01 MFR South Fish Turbine #2 Out of Service.** Fielding – new Teflon has been ordered and should arrive any time. It will take about one week to make repair. Turbine units 1 & 3 are up and keeping us in compliance.
 - 4.8. **21 JDA 02 MFR North Fish Pump #4 Out of Service** discussed north fish pump above.
5. **Fish Passage Plan:** The 2021 FPP went into effect March 1 and is available online at: <http://pweb.crohms.org/tmt/documents/fpp/2021/>
- 5.1. **New Change Forms:**
 - 5.1.1. 21AppL002 – Correct Pinniped Hazing Start Date – Updated to 1 March, approved.
 - 5.1.2. 21AppC001 – BPA's Load Shaping Guidelines – Updated to reflect new BiOp.
 - 5.1.3. 21BON002 – Turbine Range Updates – (12:00) Conder would like to take a more detailed look to develop priorities, need more time to consider the best options. Lorz also asked for more time to look at how spill impact rock removal (12:05). Bettin is concerned about rocks destroying the spillway. There was a general conversation about Bonneville spill and the 180k trigger vs. 200k. MacDonald spoke to FFDRWG project that is a physical change not an operational one. Van Dyke is concerned about changing of the dates in the broader package of FPP change forms. This topic will be discussed at FPOM next month.
 - 5.1.4. 21TDA001 – Turbine Range Updates
 - 5.1.5. 21JDA003 – Turbine Range Updates
 - 5.1.6. 21MCN004 – Turbine Range Updates
 - 5.1.7. 21IHR004 – Turbine Range Updates
 - 5.1.8. 21LMN005 – Turbine Range Updates
 - 5.1.9. 21LGS005 – Turbine Range Updates
 - 5.1.10. 21LWG005 – Turbine Range Updates
6. **Task Group Updates.**

- 6.1.** Avian Task Group meeting (Cordie) Last meeting Bill Sharp (YN) presented plan to use lasers to reduce nesting at Miller Island Rocks. NWP is working on NEPA requirements to use lethal take at The Dalles and John Day Dams.

6.1.1.<http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Avian%20Hazing/>
- 6.2.** Task Group Condition Monitoring (Lorz & Sullivan) Lorz – an MOC was developed and approved for early sampling this year. Going forward we'll need higher level of decisions that need to be made before we bring it back to FPOM. Working toward early June.

6.2.1.<http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Condition%20Monitoring/>
- 6.3.** Task Group 15 Mile Steelhead Overshoots, TDA ITS operation dates. (Bellerud) – Early operation of The Dalles ITS happened in February and those hours were reduced in March. Van Dyke asked for more detail. Cordie - Three days in Feb , 4 hour blocks. Delayed opening of ITS for 12 hours 1 March, from mid-night to noon. Van Dyke asked how he could track the operation, so 5 years from now, we will know how we got here. Tammy said we will update the MOC with actual operations and post to the FPOM website.

6.3.1.<http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20TDA%20ITS%20operations/>