

## MEMORANDUM FOR THE RECORD

Subject: DRAFT minutes for the 8 April 2021 FPOM meeting.

The meeting was held via WebEx. In attendance:

<b>Last</b>	<b>First</b>	<b>Agency</b>	<b>Email</b>
Baus	Doug	NWD RCC	Douglas.m.Baus@usace.army.mil
Bellerud	Blane	NOAA	Blane.Bellerud@noaa.gov
Bettin	Scott	BPA	swbettin@bpa.gov
Breitkreutz	Lara	?	?
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
Day	Jim	NWP JDA	James.E.Day@usace.army.mil
Ebel	Jonathan	IDFG	Jonathan.Ebel@idfg.idaho.gov
Fielding	Scott	NWP JDA	Scott.D.Fielding@usace.army.mil
Graham	Jen	Warm Springs Tribes	Jennifer.Graham@ctwsbnr.org
Griffith	Denise	NWW	Denise.S.Griffith@usace.army.mil
Hausmann	Ben	NWP BON	Benjamin.J.Hausmann@usace.army.mil
Holdren	Elizabeth	NWW LGR	Elizabeth.A.Holdren@usace.army.mil
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Lawonn	James	ODFW	matthew.j.lawonn@state.or.us
Lorz	Tom	CRITFC	lort@critfc.org
MacDonald	Jacob	NWP	Jacob.Macdonald@usace.army.mil
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Morrill	Charlie	WDFW	Charles.Morrill@dfw.wa.gov
Ogden	Darren	NOAA LGR trap	
Peery	Chris	NWW	Christopher.A.Peery@usace.army.mil
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Rapp	Sean	Anchor Environmental	lgrtask@gmail.com
Sears	Sheri	CTCR	Sheri.Sears@colvilletribes.com
Shane	Scott	Public Power Council (PPC)	shane@sscottandassociates.com
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St. John	Scott	NWW – LGS	Scott.j.st.john@usace.army.mil
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Swank	David	USFWS	david_swank@fws.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
Wertheimer	Bob	NWP FFU	Robert.H.Wertheimer@usace.army.mil

**1. Final decision or recommendations made at this meeting.**

**1.1.** March meeting minutes were approved.

**1.2.** FPP Change Forms

**1.2.1.** **21BON003 – PH2 Mid-Range Criteria (Bettin)** – to reduce spill way rock entrainment.

Conder (NOAA) has collaborated but is out this week for Spring Break. Lorz has not had time to address and he suggests call next week with NOAA. Bettin, this has already been open for comments 6 weeks as Agencies asked for more time previously. Comments due by 4/16 or FPAC discussion.

**1.3.** **21JDA004 – Final Unit 10 Operating Range (Wright)** – After index testing the operating range for Unit 10 is the same as Unit 3. Both are fixed blade units. Change approved.

**1.4.** **21MCN005 – Corrected Table MCN-7 (Wright)** – No comments, change approved.

**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/>**

**2.1.** Agenda, Fish Passage O&M coordination team

**2.2.** McNary juvenile passage system dewatering section and brush issue, 2 pp .pdf (NWW)

**3. Action Items**

**3.1. NWW**

**3.1.1.**[March 21] McNary steelhead overshoot study – waiting on results. ACTION: Peery will share. No results yet, Karl will bring to FPOM.

**3.1.2.** [March 21] Little Goose count station modifications to reduce entrained air. ACTION: Peery will take to FFDRWG. *Brain storming design to reduce entrained air, improving visual quality (live count and video).*

**3.1.3.** [March 21] McNary juvenile fish facility late start. ACTION: Griffith will take request for early start in 2022 back to Project, Bobby Johnson (MCN). *Project is anticipating early start next year. Corps working early start 2022 internally.*

**3.1.4.**[March 21] 21 LGS 01 MOC Unit Priority Change to Facilitate Debris Removal. ACTION: Peery will report back to FPOM about path to re-design of debris boom. *Favorable winds allowed ~1/2 of debris to be spilled. Morrill warned of large tumble weed rafts floating down river. Lower Granite project is aware and watching.*

**3.2. NWP**

**3.2.1.**[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. *UFR's will be worked in May, new update then.*

**3.2.2.**[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.

**2.2.3. TDA East Exit boundary.** Morrill will visit after 2<sup>nd</sup> COVID-19 vaccine and decide where boundary line should be.

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

**3.3.1. [March 21] 21 LWG 01 MOC Unit Exciter Testing (Peery)** Worked on Units 2 & 3, was scheduled 15-18<sup>th</sup> of March, out of priority. Status: *Approved last FPOM.*

## **4. Updates**

### **4.1. NWW**

**4.1.1.** Upcoming maintenance/construction/research activities.

**4.1.1.1.** McNary steelhead overshoot study – When complete will report to SRWG. Peer will share with FPOM.

**4.1.1.2.** McNary spillway crane repairs – Working on crane #7 with crane #6 pending. Van Dyke asked about potential fish passage impacts. Peery responded Bays 2 & 19 are operated by those cranes. Change form has been submitted to reduce the number of changes in those bays. Bay 19 is one of the TSW bays. Flex spill operations require a couple of changes each day and McNary's cranes are showing the wear. Van Dyke is concerned about slow rate of repair. Peery explained, COVID-19 work schedules are slowing repairs as is availability of special order parts. These cranes are normally only used for emergencies. Morrill asked if Bay 19 will be operational this year. They can move crane there if needed.

**4.1.2. 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. Work to occur in August.

**4.1.3.** Little Goose transformer replacement. -Work planned to be complete by end of September.

**4.1.3.1.** Ice Harbor trash rake replacement/repair – Working with structural engineers to repair rake during winter maintenance 2021/22 will be moved off site for repair. Bettin commented, since we started surface spill on the Snake debris has been passed down from Lower Granite. Conversation about debris handling, monitoring, increasing orifice flushing for protection for juvenile salmon continued some specific items at Ice Harbor some general. Lorz wants to look at system wide approach to debris handling.

**4.1.4.** Invasive species discussion.

**4.1.4.1.** Juvenile shad removal from samples (Peery) – Speaking to folks that process samples, shad are currently separated out so little extra work to removed from river. Some debate about actual benefit. Van Dyke classified them as a naturalized game fish. ISAP is reviewing shad/salmon interactions and will produce report. All agreed adult shad are so plentiful they cause counting problems at the fish counting windows – for example counters have difficulty seeing sockeye passing as the same time.

**4.1.4.2.** Walleye collection at Lower Granite (Ebel) – Unauthorized introduction to L. Roosevelt 1960's. Spreading up and down river since. Electrofishing is not effectively catching, however catching them at LGR trap since 2016. Mostly captured in the fall. IDFW destructive sampling n=45, determined sex (80% males), collected hard parts, length (mean=42 cm), documenting colonization of upper Snake habitat. Stomach contents stored in EtOH.

**4.1.5.** NWW start of fish passage season water up of fishways.

**4.1.5.1.** Lower Granite early start summary (Peery) March 1<sup>st</sup> to 31<sup>st</sup> - Collected about ¼ of 2020 (salmonids) however collected high number of larval and juvenile lamprey. Ammocetes 2020 = 404, 2021 = 1,142) Macrophthalmia 2020=21, 2021 = 3,242.

**4.1.5.2.** McNary juvenile fish facility (from NWW, "Emergency Juvenile Fish Bypass at McNary.pdf") – Cleaning brush operational, back up and running again. Peery walked through 13 slide PowerPoint of the problem and fix. Lorz, Van Dyke, and Morrill expressed appreciation for guys on the ground getting it fixed.

## **4.2. NWP**

### **4.2.1. Upcoming maintenance/construction/research activities.**

- 4.2.1.1.** 21 BON 001 MOC Navigation Lock 1 (old navlock) Bridge Replacement (Trachtenburg) scheduled for CY2023. TPDT to about 30% design and on schedule.
- 4.2.1.2.** 15TDA08 MOC Transformer Installation. Finishing up
- 4.2.1.3.** 18TDA03 MOC Transportation Channel Partial Grating Coverage. Going forward with large mats during winter.
- 4.2.1.4.** 19TDA04 MOC Crane rail Replacement winter (21/22)
- 4.2.1.5.** 20TDA10 MOC PUD Smolt Bypass Extended Outage – on schedule.
- 4.2.1.6.** 18JDA02 MOC Trash rack replacement. (Fielding) – awaiting award, thus schedule.
- 4.2.1.7.** 20JDA04 MOC STS crane replacement. Scheduled for August. Awaiting award.
- 4.2.2.** BON Cascade Island PIT tag antenna completion. Hausmann reported PSMFC portion done. Project awaiting funding.
- 4.2.3.** BON Aqui-S update. Adopting temporary plan for 2021.
- 4.2.4.** BON ITS Gate – No update
- 4.2.5.** TDA AWS trash rake. Cordie said design team was out to visit, working on design fix. Lorz -there is a lot of interplay with this project and fish passage. He wants to be sure FFDRWG is involved and he will lobby for SCT funding. Van Dyke asked when this would move from CRFM to O&M funded. Cordie says it is not fully functional so has not yet been handed over to O&M.
- 4.2.6.** TDA East Exit boundary. 3/11/21 Morrill will visit after 2<sup>nd</sup> COVID-19 vaccine and decide where boundary line should be.
- 4.2.7.** TDA trunnion pin. 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”
- 4.2.8.** JDA north pumps. Scott – N pump #4 OOS, return to service unknown.
- 4.2.9.** JDA spill bay 10. Still in manual operation, have not figured out remote operations from the control room, likely manual most of spill season
- 4.2.10.** JDA elevator #4 – to North ladder tailrace deck, exceeded upper limit switch and is down, stairs still work. Prevents access to LPS trap. Contractor should be on site this week to investigate.

## **4.3. NWS (Seattle).**

- 4.3.1.** The Value Engineering Study is being finalized for the Albeni Falls Dam fish passage facility. The next step will be to meet with project partners to discuss fish sorting protocols.
- 4.3.2.** Chief Joe Dam– USACE staff have been injured while entering scroll case and descending down a Jacobs ladder during turbine dewatering and fish rescue operations. The Operating Project developed a short-term fix to use a two person personnel carrier (acts like an elevator) to transport people down to inspect the dewatered turbine for fish. The long-term solution is to build a turbine maintenance platform, but this is still in the feasibility phase. Once the design for the turbine maintenance platform is understood, then we plan to revisit and perhaps update the FPP Appendix H, if necessary.

## **4.4. Research/FFDRWG updates.**

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

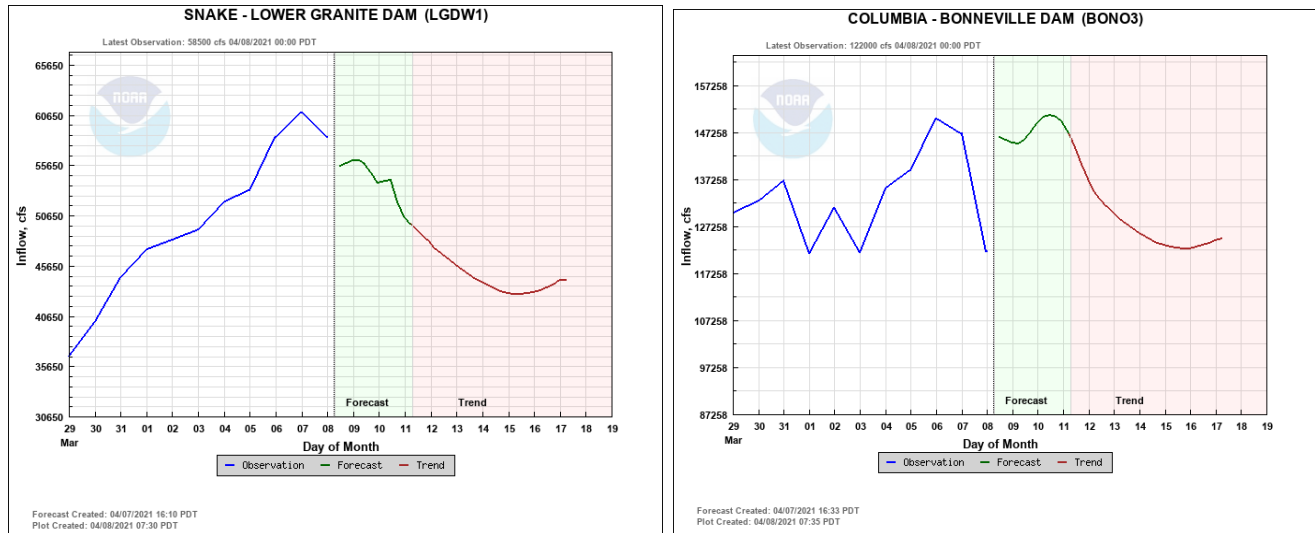
**4.4.1.NWP FFDRWG.** Next meeting May 6th

**4.4.2.NWW FFDRWG.** Next meeting April 28, 2021

**4.5. RCC update**

Project	Previous Day (4/7) Average Outflow (kcfs)	5 Day (4/12) Forecasted Inflow (kcfs)	10 Day (4/17) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	60	47	44	43 (4/15) / 56 (4/8)
MCN	124	120	112	111 (4/15) / 136 (4/10)
BON	134	135	125	123 (4/15) / 151 (4/10)

**Table 1. NOAA Northwest River Forecast Center inflow forecast.**



**4.6. BPA update. (Bettin)** No major changes, look for sheet next week.

**4.7. Fish Count Program update (Peery, Wertheimer).** Live counting on-going and posting to FPC.

**4.8. Pinniped update**

**4.8.1. Bonneville Dam - (Wertheimer)** 25 Stellar SL and 2 California SL, predation monitoring started this week by FFU. ODFW has begun re-moving sealions.

**4.8.2. Willamette Falls –** No update yet

**4.9. Lamprey update –** LPSs started Tuesday, one CI pump tripping off.

**4.10. Avian updates (10:30)**

**4.10.1. NWW –** reporting very few birds, single digits. Small group of DCCO at MCN. Two lasers in operation, one down. Awaiting camera and parts, still images for laser evaluation.

**4.10.2. JDA –** 20-30 DCCO, Grebes in the forebay, a few AWPE in tailrace.

**4.10.3. TDA –** Cordie is seeing a high number of gulls (tailrace) and DCCO in forebay transmission towers.

- 4.10.4. Blalock Island tern nesting disruption (Trachtenberg )** - Civil air patrol overflight soon. Bettin says pools in range to prevent tern use. Will take a couple of days to evaluate photos for number of terns.
- 4.10.5. BON** – Bird numbers pretty low, gulls likely to increase to forage sea lion kills when Springer run shows up.
- 4.10.6. Spillway avian lines** - Avian lines over spillway and corner collector are back up following SW rock removal.
- 4.10.7. Estuary** – ESI one acre Tern colony is prepared, first tern on Monday, close to 60 birds on south shore Thursday (4/8). Less than 20 DCCO using rack line or usual DCCO nesting area. McDowell asked about frequency of tern monitoring, Tidwell responded 3 times a week.
  - 4.10.7.1. Rice, Miller, Piller** - Have not seen any tern use. Monitoring
  - 4.10.7.2. Astoria-M Bridge** – McDowell reports active nests. Lawonn has done weekly counts since March and estimates 2,000 DCCO on bridge with at least 3 active nests.

**5. Coordination/Notification forms (need concurrence/discussion)**

- 5.1. 21 LGS 01 MOC Unit Priority Change to Facilitate Debris Removal** – FPOM concurred in March. Operation on-going, ½ of debris (floating logs) have been spilled.
- 5.2. 21 LGS 02 MFR T2 Transformer Outage** – Occurred
- 5.3. 21 LGS 03 MOC Unit Outage for T2 Inspection** – to determine problem and repairs. Occurred yesterday, awaiting details of repair.
- 5.4. 21 LGS 04 MFR Unit priority-** Unit run out of priority during spill, Operator continued spill for debris removal beyond need. Project Bios altered control room and they corrected to FPP.
- 5.5. 21 IHR 02 MFR Unit 5 Reactive Limit Testing** – Run out of order for 1 hour on 17 March.
- 5.6. 21 IHR 03 MFR Line 1 Forced Outage** – Line tripped, AWSs off line ~1 hour causing ladders to be out of criteria.
- 5.7. 21 IHR 04 MOC Unit 2 Index Testing** – Occurred yesterday, 4/7, awaiting results.
- 5.8. 21 IHR 05 MFR Unit Trash Rack Problems** – No comments
- 5.9. 21 BON 005 MFR B2CC Closure for avian line re-install** – Van Dyke asked is they were re-installed. Hausmann replied they were re-installed Mon & Tue over the spillway and corner collector.
- 5.10. 21 TDA 04 MFR Steelhead Adult Mortalities in Navlock Dewatering**
- 5.11. 21 JDA 03 MFR South Fish Turbine #3 out then back to service**

**6. Fish Passage Plan:** The 2021 FPP went into effect March 1 and is available online at:

<http://pweb.crohms.org/tmt/documents/fpp/2021/>

**6.1. New Change Forms:**

- 6.1.1. 21BON003 – PH2 Mid-Range Criteria (Bettin)** – to reduce spill way rock entrainment. Conder (NOAA) has collaborated but is out this week for Spring Break. Lorz has not had time to address and he suggests call next week with NOAA. Bettin, this has already been open for comments 6 weeks. Comments due by 4/16.
- 6.1.2. 21JDA004 – Final Unit 10 Operating Range (Wright)** – After index testing the operating range for Unit 10 is the same as Unit 3. Both are fixed blade units. Van Dyke asked how long Unit 10 will remain locked. BPA – goal is to repair one unit a year but not reaching that pace. Currently 7 JDA units locked/fixed. Approved
- 6.1.3. 21MCN005 – Corrected Table MCN-7 (Wright)** – No comments, approved.

**7. Task Group Updates.**

- 7.1. Avian Task Group meeting (Cordie)** – meeting to follow FPOM at 1300 hours

- 7.1.1.** Gulls trending up year over year. Schmidt updated lethal take tool, will have to wait until an EA can be completed hopefully before 2022 passage season.
- 7.1.2.** Miller Island Bill Sharpe (YN) will update deterrent effort there.
- 7.1.3.** <http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Avian%20Hazing/>
- 7.2.** Task Group Condition Monitoring (Lorz & Sullivan)
  - 7.2.1.** <http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Condition%20Monitoring/>
    - 7.2.1.1.** Condor requested a LMN condition monitoring meeting, scheduled for 4/15. McClain will work invite list with Peery/Conder and send out WebEx invite. Invite sent out 4/12.
- 7.3.** Task Group 15 Mile Steelhead Overshoots, TDA ITS operation dates. (Bellerud) – No update. Keep on agenda.
  - 7.3.1.** <http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20TDA%20ITS%20operations/>

Meeting ended at 11:36