

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 12 May 2022 FPOM meeting. The meeting was held via WebEx. In attendance:

| <b>Last</b>  | <b>First</b> | <b>Agency</b>        | <b>Email</b>                         |
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| Urmston*     | Jennifer     | USFWS                |                                      |

|            |          |         |                                    |
|------------|----------|---------|------------------------------------|
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| Wendler    | Jeanette | NWP-BON | Jeanette.C.Wendler@usace.army.mil  |
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\*Called in for the Avian Updates only

## 1. Final decisions or recommendations made at this meeting

- 1.1. April meeting minutes were approved.
- 1.2. **22BON007 MOC U14 and U15 B2FGE Hydraulic Testing.** Concurrence
- 1.3. **22BON009 MOC T11 BPA Outage** -No comments. Review period up on 5/18.
- 1.4. **22JDA008 Orifice Operation** Change form approved.

## 2. Action Items

### 2.1. NWW

- 2.1.1.[May 22] **22 LWG 04 MOC T1T2 Gasket Repair- ACTION:** Peery to consider month of October and review impacts, check on suggestions to spill change, and look through the record for actions done on T1/T2.
- 2.1.2.[May 22] 20 LGS 16 MOC Powerhouse Roof Repair. Roof repair will start in June and go through August. Bettin asked about the schedule, he would like to do a field trip. **ACTION:** Peery will get an updated schedule to Bettin.
- 2.1.3.[May 22] Fish Count Program update. **ACTION:** Peery will check on the issue with jack counts.
- 2.1.4.[May 22] 22 LWG 05 MFR T1 Oil Fill – Completed. Morrill asked how much oil level dropped since fill. **ACTION:** Peery will check on oil level and report back at the June FPOM.

### 2.2. NWP

- 2.2.1.[May 22] Tule Counters. **ACTION:** ODFW/WDFW send person or remote count preference to Wertheimer.
- 2.2.2.[May 22] NWP/NWW Critical Fish Passage O&M needs. No changes in ranking but there is an added item for BON. **ACTION:** FPOM Take a look at additional item and send Tammy the ranking before the June FPOM meeting.
- 2.2.3.[May 22] Review of TDA Avian update 2020-2022 graph. **ACTION:** Cordie will try to get an end of May-early June DCCO nest count at the towers.

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

- 2.3.1.[Apr 22] 22 LWG 04 MOC T1T2 Gasket Repair- **ACTION:** Peery will discuss November 2022 start with PM. Need FPOM comments back by end of month. *STATUS: Cannot get contract in place by this Nov.*
- 2.3.2.[Apr 22] **BPA BON outage.** **ACTION:** Bettin will inquire about moving outage to 15 July. Mackey commented that MOCs should be produced for outages that affect priority units for situational awareness and the opportunity to comment. *STATUS: Complete. Bettin coordinated BON units 11-14 outage for an 18 July start date.*
- 2.3.3.[Apr 22] **22BON007 MOC U14 and U15 B2FGE Hydraulic Testing.** **ACTION:** Rerecich will discuss potential change from unit 14 to 16 with Max and update with any changes. General concurrence. *STATUS: Complete. The MOC coordination remains unchanged.*
- 2.3.4.[Apr 22] **JDA Bird counts.** **ACTION:** Grosvenor and Cordie will send their Annual reports for TDA/JDA to Krasnow. *STATUS: Complete.*
- 2.3.5.[Feb 22] **JDA ladder temps.** **ACTION:** Grosvenor will distribute his report prior to May FPOM. *STATUS: Complete.*

**2.3.6.[Apr 22] 22JDA008 Orifice Operation** (Grosvenor) *Change:* The units will not be operated with orifices closed. Bettin asked about timing for shut down. **ACTION:** Wright will reach out to project to clarify unit shut down language. *STATUS: Complete. JDA project confirmed proposed revision to add “within 1 hour” is ok.*

### 3. Updates

#### 3.1. NWW Updates

**3.1.1.** Upcoming maintenance/construction/research activities (previously coordinated MOC/MFRs).

**3.1.1.1** 20 LGS 16 MOC Powerhouse Roof Repair. Roof repair will start in June and go through August. *STATUS: Bus linkage in place now, Roof work will start staging in June work to start in July. Bettin asked about the schedule, he would like to do a field trip. ACTION:* Peery will get an updated schedule to Bettin.

**3.1.1.2** 21 LWG 08 MOC Trash Rake Crane Replacement (May 22). No change

**3.1.1.3.** McNary crane status. Cranes 6 and 7 are back in operation. Hoist 6 is still OOS. June is still the estimated RTS date. No change.

**3.1.1.4.** 22 LMN 01 MOC North Fish Ladder Debris Barrier- Installation pushed out to August. High flow and spill most debris got washed out.

**3.1.1.5.** 21 IHR 15 MOC Unit 2 special generator testing -work on unit 3 has been delayed, parts need to be refabricated, work will not be completed until end of July unit 2 testing pushed to 15 Aug -3 Sept. U1 and 2 would be out, operation going to priority unit 3 during that period.

#### 3.2. NWP Updates

**3.2.1.** Upcoming maintenance/construction/research activities (previously coordinated MOC/MFRs).

**3.2.1.3.** 21BON001 MOC Navigation Lock 1 (old navlock) Bridge Replacement. Scheduled for CY 2023.

**3.2.1.4.** 22BON004 MOC T12 OOS. Moved outage to 29 Aug-15 Sep. No comments

**3.2.1.5.** 22BON007 MOC U14/15 OOS for B2FGE testing. No change

**3.2.1.6.** 19TDA04 MOC Crane rail Replacement winter (on going work). No activity, had to do some contract renegotiation.

**3.2.1.7.** 22TDA05 MOC Exit Boom Install. Issue with weir 155 failure caused postponement. Plan to install the boom this winter.

**3.2.1.8.** 18JDA02 MOC Trash rack replacement. Received first three of 24 segments for refurbishment of trash rack today. Second part for installation, PDT will start up soon.

**3.2.1.9.** 20JDA04 MOC STS crane replacement. No update

**3.2.1.10.** 22JDA03 MFR South Fish Turbine #2 OOS. The turbine unit is dewatered, crew set up to pull barring out. Work on MU 3 delayed start. when work completes at MU3 work will continue with FT 2 for RTS.

**3.2.2.** TDA AWS debris management. No update

**3.2.3.** TDA trunnion pin. Gate 9 trunnion would be part of a larger project to completely rehab Gates 1-9. SAP shows Start in 2031, Construction 2034. No update.

**3.2.4.** JDA north pump #4. OOS for entire year no money to repair. No update

**3.2.5.** JDA spill bay 10. Will still need to be operated manually. Issues with control system. No update

**3.2.6.** JDA N elevator #4. Currently working. Engineers came up with a UFR package to submit for additional repairs.

**3.3. NWS (Seattle) updates.** No updates

**3.4. Research/FFDRWG updates.**

**3.4.1. NWP FFDRWG.** No updates

3.4.2. **NWW FFDRWG.** 28 July next meeting. Follow up on LWG ladder cooling pump configuration need additional info yet to make decision on scheduling.

3.4.3. **SRWG.** Ranking meeting a few weeks ago and recommendation forthcoming.

3.4.4. **2022 Research and Access requests**

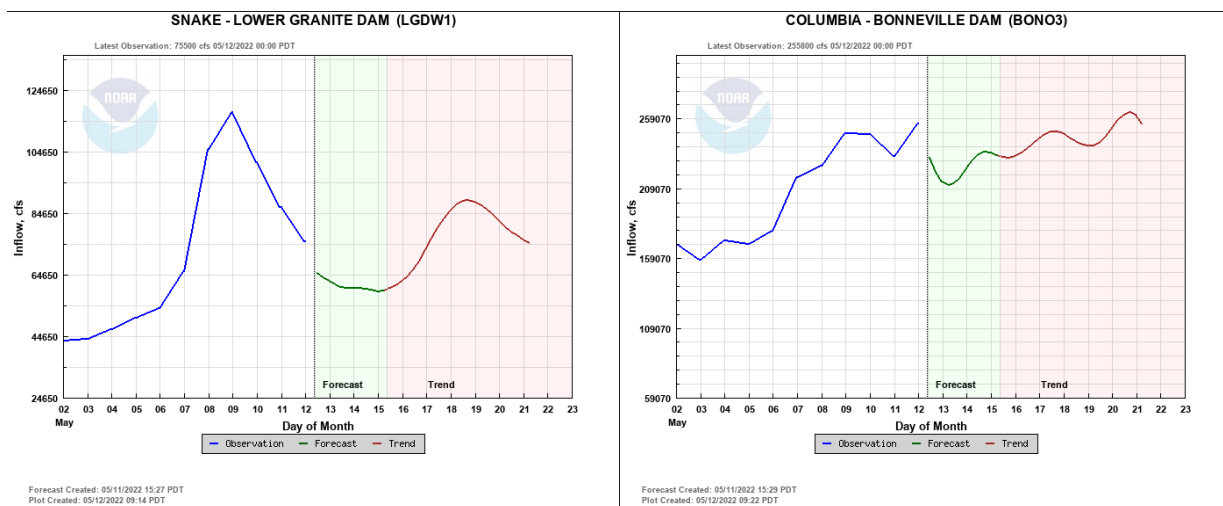
3.4.4.3. **BON Aqui-S long term solution.** - No major changes for researchers in 2022. Working on long term solution. No update. OC and EPA to review submitting language.

3.4.4.4. **BON AFF Users groups using AFF.** ODFW and CRITFC trapping STH this summer.

3.5. **RCC update.**

Table 1. NOAA Northwest River Forecast Center inflow forecast.

| Project | Previous Day (5/11) Average Outflow (kcfs) | 5 Day (5/16) Forecasted Inflow (kcfs) | 10 Day (5/20) Forecasted Inflow (kcfs) | Forecasted Inflow Low/High (kcfs) |
|---------|--|---------------------------------------|--|-----------------------------------|
| LWG     | 77   | 64                                    | 75                                     | 59 (5/14) / 89 (5/18)             |
| MCN     | 245  | 219                                   | 228                                    | 195 (5/12) / 247 (5/20)           |
| BON     | 254  | 234                                   | 256                                    | 212 (5/13) / 264 (5/20)           |



3.6. **Fish Count Program update (Peery, Wertheimer).** BON May 15 start for night count, at other locations June 15. Seeing small 12-14” Sockeye/kokanee at MCN and LMN could be from Dworshak. Conder said, regarding Sockeye, they could be juveniles. Conder also asked about significantly higher number of CH jacks being reported upstream vs downstream at some locations. Ebel said that 12-14” is too large for hatchery Sockeye juveniles and tens of thousands of kokanees were entrained at Dworshak last year. **ACTION:** Peery will check on the issue with jack counts.

3.6.1. **BON WDFW Tule counters.** Tule counters are trying to set up DVR for remote access, back to having counters in count stations is likely, barring any uptick of COVID. Van Dyke mentioned Oregon Tule counters are encouraging onsite staff access. Peery said he didn’t get that message as Washington folks were talking about remote counting. **ACTION:** ODFW/WDFW send person or remote count preference to Wertheimer.

3.7. **Pinniped update**

- 3.7.1. Bonneville Dam. Wertheimer-Monitoring ongoing at BON. Morrill updated for week of 2-5 May, removal of 1 EJU and 6 ZCA, 18 removed so far this season (7 EJU and 11 ZCA). Pinniped abundance, 55 animals, 80% EJU, 20% ZCA. Scheduled to go to 25 May.
- 3.7.2. Willamette Falls. Van Dyke - Observers have seen a few. Traps out, nothing to report.
- 3.8. **Lamprey update**
  - 3.8.1. BON LPS (Derugin) all systems up and running. LFS is running. (Wertheimer) LPS paddle counters are up and going will be doing video validation. Two other actions, wiring the LPS counters to the count stations to enter the flow of fish counts, also switching from mechanical to optical counters. Estimating a year to get the wiring done. Macdonald asked how long this would take to get the data flow going. Wertheimer said the goal is to have it in place next year. Tidwell said there will be a one-to-two-day outage for LPS to do optical counter install (looking at mid-June). MOC will be forthcoming, Macdonald wants to run the MOC through the Lamprey Accords work group as well as FPOM for comment.
  - 3.8.2. TDA LP trap system east ladder count station a few minor mods are underway. LP PDT update, proposal for modification to exit weirs, looking to do the work in house once design is agreed on.
  - 3.8.3. JDA LP At the south ladder tested the crane, deployed trap box in bypass mode and it's in place. On the north turned on system to check both pumps and flushed system and rest box. Both systems ready. Plan in hand meeting, PDT presented plans and drawing of water system for north fish ladder. Final DDR package for FFDRWG to review coming soon.
  - 3.8.4. NWW cooling water strainer spreadsheet sent out. More juvenile lamprey in collection, telemetry folks should have all the sample they need for that sturdy.
  - 3.8.5. Lamprey Accords Work Group (Macdonald). Working on Adult passage improvement designs preparing for next in water work window. Working on update to implementation plan for Lamprey Accords funding. There is a meeting next week with internal team to make edits and Lamprey Accords in June to review edits. Juvenile passage study at LWG researchers, PNNL tagged 117 individuals. Good group collected to be tagged this weekend. Yesterday's tag session was the second batch. Hoping to have third batch early next week. Tagging ongoing looks promising. Lost FED Ex shipment of dry cells. Silver asked how many, Juhnke said 100 dry cells. Manufacturer reshipped will go out. Macdonald said fish available but no tags available. Need the dry cells to manufacture last remaining tags. Meeting with Accords to see what to do with remaining tags. Morrill asked where are lampreys being held? Juhnke said he thought circulars but may be using supplemental tanks.
- 3.9. **BPA update.** Spreadsheet on the FPOM website. Moved BON outage to start July 18, new outage for LMN double and T2 testing.
- 3.10. **NWP/NWW Critical Fish Passage O&M needs.** No changes in ranking but there is an added item for BON. **ACTION:** FPOM Take a look at additional item and send Tammy the ranking.
- 3.11. **Avian updates (10:30)**
  - 3.11.1. NWW (Peery) Highest numbers are gulls, over 100 at MCN and LMN. IHR up to 110 AWP in a day. LMN had 49 AWP, no CATE, 0-20 DCCO and similar for grebes. Parker asked if this is a recent AWP trend. Peery said no this has been ongoing, more numbers at upper SNK (15) LGS and (5) LWG. AWP show up later at MCN. They are increasing over time. Parker asked if the outmigration was peaking or declining? Peery thought we were in the peak of juvenile outmigration.
  - 3.11.2. JDA (Grosvenor) 20 grebes in forebay, dozen gulls below avian array, 20 AWP on the island. Avian array is intact. Ongoing hazing. Parker wanted to know if they were western grebes and what they are eating. Grosvenor confirmed they are westerns, and they have no direct observation of grebes in forebay.

- 3.11.3.** TDA (Cordie) Review of TDA Avian update 2020-2022 graph. Yakamas hazed LMIR colony until nesting started. Hazing or cold spring temps may have reduced number so far expect numbers to rise as season progresses. USDA hazers have been on for a month. Falconer for 30-days. Cormorants on the towers in high numbers and nesting. Shore hazers work at the exits to control DCCO predation. Lawonn wants to know about surveying the colony at the peak of nesting. Cordie did not think they would be. Lawonn said pictures of the nesting would be helpful end of May early June. **ACTION:** Cordie will try to get an end of May-early June DCCO nest count at the towers. Krasnow asked when falconry starts. Cordie said start by next week. Bellerud asked about tracking effectiveness of falconer. Cordie mentioned boat and shore hazing and monitoring how the falconry supplements. Parker asked what type of raptors. Cordie said they have an arsenal of birds. Harris's can work in tight areas. Morrill asked if falcons are diving and taking birds out or just their presence was enough? Cordie said they can occasionally grab a bird and the falconers are working with USDA to ensure they can retrieve the falcon if they sit down on an island with a bird. MacDowell messaged that the work with falcons is called falconry abatement and there's a permit associated that is issued to the master falconer.
- 3.11.4.** BON (Derugin) Nothing to report.
- 3.11.5.** Estuary (Tidwell) ESI 1 acre of habitat treated with herbicide ~1,200 CATE, some scrapes, no eggs. Little activity on south beach. The other end of island has less than 100 DCCO daily. Pile dikes repaired in 2020-2021. Daily dissuasion to keep the CATE in the 1 acre. Parker asked if polygon was larger compared to previous years. Tidwell said no area is the same size but moved farther to east in 2020 to deal with erosion on south beach. Lawonn asked about nest timing changes. Tidwell said things are later this year. Colony prepped by March. Eagles have been present Tidwell counted seven recently colony flushes continue. Started monitoring of Rice, 1 April to establish bowl area. The green lasers operable for six nights, April 27 start. Laser works, 200 CATE trying to set up and use bowl reduced to 0 CATE in the bowl. Less than a hundred scraps and CATE. Question on potential impacts to SHLA. Lawonn said Pelican surveys by OSU noted CATE on the interior. Lawonn asked what time of day they are out there. Tidwell said crew are present in daylight hours, but laser is utilized 30 minutes before dawn and 30 minutes after dusk. Scraps in bowl since laser started indicating lack of CATE presence when there is no count. Parker asked about egg take permit. Tidwell said 350 eggs take authorized. Skiles chat questions 1) how many days a week is your team on ESI? 2) Re eagle counts: when are you going to share those counts and interaction observations? Tidwell said all four islands everyday weather would allow. On average 2.5 times a week. Eagle counts are not done in a systematic fashion. A formal request would be needed if that data is desired. Lawonn said that there was no activity on crump Island. ESI is the hub of the tern population, for conservation status in Oregon needs to turn around quickly may need to start managing gulls on ESI as far as their impacts on terns. Would like to see adaptive management soon, Marbled Murrelet just went on the list and there are less terns. USFW also interested in what's happening with the terns. Prior to 1985 there were tern colonies scattered along coastal Oregon, prior to the draining of much of the Klamath Basin. Parker does not want to use ESI as a corner stone for the terns, does not want colony to get larger but does support enhancing other areas for colonization. Suggest looking toward Puget Sound. McDowell said there used to be many colonies in Puget Sound, in researching new areas for new colonies all overlap with salmon.
- 3.11.6.** Astoria Megler Bridge (Lawonn)– recent maintenance work has moved birds to different areas of the bridge instead of moving them off the bridge. Congressional request from Congresswoman Herrera Beutler for potential management of DCCO on the bridge. ODFW does not have resources to participate in management but is interested in

promoting the management. Studebaker asked to clarify where ODFW stands in supporting role. Lawonn said they are not taking a leading role. McDowell said USFW is in a regulatory role and ready to support but they are not boots on the ground. McDowell asked if Badger Island is on the list of monitoring and if there are duplicate monitoring efforts between different agencies. Smith said no he didn't think there was duplicate efforts. Coordination with RTR spread out to get maximum effort. Washington was not currently monitoring but Parker said proposal for additional funding to monitor within state boundaries. USFW no permit its required for non-lethal.

- 3.11.7. Lethal Removal – Update of the NEPA progress (Schmidt). First round draft of the EA got some feedback from the projects, going to include future hazing of AWP in EA. APHIS and USFW agency coordinating to complete the EA, including the depredation permit. APHIS will get a plan of lethal implementation to Schmidt. Process will be delayed for this season regrouping to complete NEPA portion this summer and allow APHIS to do what they need to do to implement. No lethal take this year. Wertheimer asked about hazing during hatchery releases. Schmidt is open to putting anything on the table and discuss with OC for authority and inclusion in EA.
- 3.11.8. Ringold pelicans (Morrill/Wertheimer). Parker said during the WDFW meeting on status of AWP he inquired about the edict or the written language asking the CORPS to stand down hazing of AWP and there is none. Morrill said WDFW is not uncomfortable with hazing AWP. Parker said in June the commission will review comment on the status review and will decide in August to downgrade status from threatened to sensitive, State pursue funding to monitor on avian predators and work with the tribes to conduct scientific hot spots to determine if they are eating salmonids. Collection permits will be sought for 2023. MacDowell reminded that non-lethal hazing from a foraging site does not require a permit. Schmidt asked who would be doing the hazing. Morrill said Brian Lyons (hatchery manager) would look for a volunteer group to do the hazing. Schmidt asked where Ringold was located and concluded that it's not associated directly with lower three projects would not be included in the EA. Conder would like to move the avian discussion to the end of the agenda.

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

##### **4.1. NWW**

- 4.1.1. 22 LWG 04 MOC T1T2 Gasket Repair -PM has been in discussion with BPA and TVA about doing the work. TVA is for emergency response type repairs and BPA is concerned about obligating them for a full month on one project in case an emergency came up they needed to address. Discussion points on scheduling is still unresolved. Projects and PDT have narrowed it down to August and November, discounted getting work done in Spring because of weather conditions. May need to be elevated to division level considering objections from NOAA. Comments: Van Dyke asked who it would be elevated to. Peery said it would be elevated to RIOG if there are still objections to work in August. Conder said they are still pushing back on August work wants to know why not extend to three-year contract. Peery said three-year period risk is too high. Conder asked why Sept and Oct are not being considered Peery said because Fall Chinook and steelhead passage, peak of fall runs. Ebel said temperature problem with August is impacts will continue into Sept from temperature and asked when comments due. Comments due soon as possible. Peery said they want to start this August. Ebel asked Conder if he would elevate and Ebel will bring up with Nez Perce as well. Peery said they are discussing different strategies including bring units online at night and on weekends to alleviate temperatures and manage flows from Dworshak depending on summer weather to mitigate August temps. Conder asked why T2 units 5&6 operating as priority is not an option. Peery said they cannot have line energized while working on T1 for safety purposes. Bettin inquired about

a spare unit. Looking seriously into a spare, would require significant outages as well and would be 3-5 years down the road. Morrill asked if a third line would be reasonable. Bettin said third line is expensive and would take 3-5yrs. Conder would like to include considering October even though there is a lot of fish passage as temperatures would be less. Peery said if NOAA is willing to consider October, impacts would be reviewed, and they'd look at October. Ebel asked for data on passage when one unit run speed no load and the rivers being spilled. Van Dyke asked about T1/T2 lines unexpected repairs in recent past. Bettin said there is only one line at the project T1 is the hub everything goes through so T2 must be deenergized when T1 is worked on, while T2 can be isolated. If you're looking for passage data during speed no load, double testing happens frequently and could be referred to for examples of passage during speed no load. Van Dyke wants more detail on actions that have been done in the last five years. Peery said he can look through the records. Conder suggested spilling less flow in the day and catch up at night. Bettin said lowest they can go is 55%, 11.5 river minimum that time of year. **ACTION:** Peery to consider month of October and review impacts, check on suggestions to spill change, and look through the record for actions done on T1/T2.

- 4.1.2. 22 LWG 05 MFR T1 Oil Fill – Completed. Morrill asked how much oil level dropped since fill. **ACTION:** Peery will check on oil level.
  - 4.1.3. 22 LGS 03 MOC ASW Weir Crest During Navigation Hazard - temporarily moved down to MOP plus one level and discussions about future how adjustable should the crest be, change form may be coming for clarification.
  - 4.1.4. 22 LGS 04 MFR Spill pattern change to work on fishway control system – Work completed.
  - 4.1.5. 22 LMN 03 MFR Spillbays 1,2,6,7 OOS currently working on bay 1, 2, 6 & 7 done and back in operation. Bay 1 could be back as soon as tonight.
  - 4.1.6. 22 LMN 04 MFR Spillbay gate 3, 4 & 5 couplers - Work completed
  - 4.1.7. 22 IHR 04 MFR 115 kv line outages line 1 out for BPA, unit 6 was priority for a couple days, back in operation to service. Conder asked about the dates. Peery: Units 1 and 2 were out of service from 0758 hours on April 4 to 1020 hours on April 18 because the 115 kv line #1 was down for Bonneville Power Administration (BPA) to perform bus upgrades at the Franklin Substation.
  - 4.1.8. 22MCN05 MFR Spill pattern adjusted for hoist inspections -3 hours outage to check couplers.
- 4.2. NWP
- 4.2.1. 22BON007 MOC U14 and U15 B2FGE Hydraulic Testing- unit 13 OOS during testing means adjacent unit not operating during unit 14 testing. No comments. Ready to move forward
  - 4.2.2. 22BON009 MOC T11 BPA Outage -No comments. Review period up on 5/18.
  - 4.2.3. 22BON011 MOC Model Validation Testing- Derugin wants to withdraw MOC and change test dates to August after juvenile runs have dropped off. Bettin thinks it would be better to do this test now as PH1 should be running later in May and there will be plenty of units running. Whereas in August there will not be a need to run PH1 and you'll be turning units on just for this test. Bettin said a delayed run off will be coming. Conder asked about comment in MOC concerning shifting 10k from spillway. Derugin said if there was not enough flow and nothing at PH1 is running, reduce spill. Conder said swapping spill from a PH2 low priority unit would be better. Fish managers are thinking of trying to hit the 250 target at McNary sooner than later, plus spring freshets would provide flow. Conder said he is okay with August, and he would be okay with May if spill language is removed. Mackey said targeting spring flows would be best. Taking flow from spill is not acceptable unless only option, take PH2 low priority units first. Juveniles not impacted if you are not taking from spill. Spring is the better option than waiting for



summer when you will impact operations. Derugin will let the MOC stand as is and remove reference to spill. Mackey asked for any additional comments. Van Dyke has no comment. Ebel has no comment.

- 4.2.4. 22TDA06 MFR East ladder 155 weir -Cordie said there is an interest in pushing that forebay restriction down to 157. A test could be done dropping forebay to 157 after springers and before Sockeye fish runs. Bettin said if the range was written as 157-160 it frees up 6 inches for more flexibility as they never go clear down to the bottom setting. Macdonald asked if HELCRABS model could be used to predict head over the weirs for different forebays at TDA. Macdonald said the model might provide results without a field test. Conder wants a test in the field to see what is needed to keep that 1 foot over weir. Bellerud agrees with Conder to do a test by dropping the forebay level to track the one foot over weir. Bellerud wants to know how it would be monitored. Cordie said staff gauge at count station could be used to monitor and try to get a measure down on weir 155.
- 4.2.5. 22JDA04 MFR SFL Temperature -Conder disagrees with continuing to monitor the temps. If the CORPS argument is that we agree there is a problem, and we'll just keep monitoring. Morrill agrees with Conder. Macdonald presented PPT showing data of temp monitoring sites of JDA SS2 and 2019 JDA temperature differentials exceeded 1degree and approached 5 degrees. No response in passage detected still unknown if the differentials are an issue. Stratification was found in the forebay in Lindell report. Pocket of cooler water is 100 ft deep, Conder said the 1C is the differential that delays fish until a tolerance level is reached. Temp ranges of 72 -75 stop fish passage. Macdonald cites potential steps through FFDRW and SRWG. Conder likes the FFDRWG idea but how to go about that. SRWG from WWD had a similar method. They went with the pump option. CORPS knows how to use pumps and maintains pumps whereas a bubbler is an unknown. Grosvenor said that introducing air next to the turbine intact is a bad idea. Swank echoes Conder's comments about using averages as focus should be on the extreme events. Swank wants to explore a cooling structure like those on the Snake River.

## 5. Fish Passage Plan

- 5.1. The 2022 FPP went into effect March 1 and is available online at:  
[pweb.crohms.org/tmt/documents/fpp/2022/](http://pweb.crohms.org/tmt/documents/fpp/2022/)
- 5.1.1. NEW Change Forms:
  - 5.1.1.3. 22BON003 - Reduce frequency of velocity readings (Derugin) Updated meter to a smaller mechanical flow meter take a few minutes to read, Water velocities have not been an issue. Conder needs to think about this. PH1 does not cause as many issues as PH2. *Pending will remain on the agenda for June FPOM.*

## 6. Task Group Updates.

- 6.1. Task Group Non-native Piscine Predation (Hausmann).
  - 6.1.1. <http://pweb.crohms.org/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Non-native%20piscivorous%20fish>. Decide if there is a need for this TG. Morrill added that bycatch caught during the pikeminnow fishing would now go in a bucket instead of released.
- 6.2. Task Group Kelt Trigger (Wertheimer and Lorz).
  - 6.2.1. Task Group meeting following FPOM -As Lorz is not present, Wertheimer proposes to move out to June. Those who want to be involved send Wertheimer an e-mail.