

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 13 August 2020 FPOM meeting.

The meeting was held via teleconference. In attendance:

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

- 1.1. July meeting minutes were approved. Lorz pointed out that his comments on the wetted wall during the last meeting were accurate. The wetted wall did pass 444 lamprey and it was extrapolated to ~1200 for the season. Morrill verified that his comments were received. His comments were posted to the FPOM website and sent to Lisa Wright for FPP change form documentation.
- 1.2. New surface-oriented spill at the Snake River Dams that Conder referenced is located at Page 1400 of the new Bi Op.
- 1.3. 20JDA12 MOC Spill bay 2 attraction flow – FPOM concurred.

**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. FPOM outages schedule (NWW)
- 2.3. Composite Cooling Water Strainers Lamprey Counts (NWW)
- 2.4. FPOM transmission outages (BPA)
- 2.5. MCN TSW and Summer Fish Passage (NWW)
- 2.6. LWG GRS vs GRJ Sub yearling detection comparison FPC Memo 35-20 (WDFW)
- 2.7. BON Sinkhole photo
- 2.8. JDA Spill bay 10 outage 16-23 June 2020 flow distribution
- 2.9. TDA Dewater Turbine SOP
- 2.10. Coordination Forms (MOC/MFR) (NWW/NWP)
- 2.11. FPP Change Forms (NWW/NWP)

**3. Action Items**

**3.1. NWW**

- 3.1.1. **[August] 20LMN08 MOC Floating Guide Wall Repair**- ACTION: Barnes will double check that no forebay restrictions are required for this work.
- 3.1.2. **[July 20]20IHR003** - ACTION: Anderson will send out the historical reports and will look for the fall chinook FGE report that Conder referenced. Anderson sent these reports to FPOM July 10, 2020. *Status: Completed. Van Dyke said he didn't agree with some of the content, specifically the word "good" and doesn't believe that this issue is ready to move forward. Setter thinks that the decision may go to RIOG and recommends sending comments in writing for Anderson.*
- 3.1.3. **[June 20] MCN TSW removal** - ACTION: NWW will come up with a proposal based on sub yearling data and project capability for FPOM to review. Pending from last month. Hockersmith provided FPOM with a summary and analysis for summer migrant passage and survival with and without the TSWs operating, July 23, 2020. *Status: Completed. Hockersmith has not received any comments and thinks it can be removed from the agenda. Lorz needs more time. Conder said it is a technical study, but it doesn't have a recommendation. Hockersmith is giving the background information and if someone wants to propose a change form then they could use this information. There was nothing that stood out as a good change. Conder asked if there was any effect of the TSW on forebay/tailwater temperatures. Hockersmith did not investigate it but didn't think it was measurable because of the volume of the Columbia at MCN compared to the Snake. Conder thinks there should be an option to delay the TSW due to debris. Bellerud would like flexibility but understands that the project likes to plan the work. Setter said that there is flexibility, but they need two weeks to plan. She suggests talking to the project about a month in advance to set the appropriate date. If the date is cancelled, it might take a couple of weeks to get the work back on the schedule. Lorz asked about modifications for the hoists*

so it would be automated. Setter said that they are moving in that direction, but they are still short a couple of spill bays. They still need to rely on cranes for the time being and they are very old. They have hoists on 20 spill bays. Bellerud summed up the issue as the problem is not with the TSW but with the operations that support TSW removal. Setter agreed and added that there are personnel safety issues with the cranes. The project also needs to find the funds to finish the upgrades on the hoists. Critical maintenance is the highest priority for the project. Van Dyke asked how the flexibility is being impacted by contractor compared to the Corps direct work in the MCN spill weir automation efforts. Setter said that crane 6 is out of service and it is being addressed by the Corps. An outside contractor will do the crane inspection. COVID is also restricting the staff levels.

### 3.2. NWP

- 3.2.1.[August 20] TDA Turbine Dewater Sturgeon SOP - ACTION: Van Dyke and Morrill will discuss the proposed protocol with their respective sturgeon experts.
- 3.2.2.[August 20] JDA Post Warm Water Sampling Protocol - ACTION: Grosvenor will write an MOC on the sampling protocol.
- 3.2.3.[August 20] BON ROV - ACTION: Hausmann will write an MOC on the ROV inspection options.
- 3.2.4.[May 20] and [July 20] 20JDA05 MOC Spill bay 10 repair - Van Dyke asked which pattern would be used during that week. ACTION: Fielding will send more information about the proposed spill pattern during the outage. ACTION: Grosvenor will find out which bays the flow went to and write in a spreadsheet. *Status: Completed. The pattern is in the meeting folder. Mackey requested that it also goes to the archived spill pattern.*
- 3.2.5.[July 20] 18JDA02 MOC Trashrack replacement - ACTION: Royer will send the outage schedule to Bettin. *Status: Completed. They have been in communication.*

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

- 3.3.1.[March 20] BON AFF - ACTION: Hausmann will look into a fix for fish holding in the non-sample exit pipe. *Status: No update. They are still pursuing the idea but there aren't enough people at work to do something about it. Conder thinks that the Whoosh tube material would work great. Hausmann asked what the material is but it is not known. Conder will ask for a sample. Hausmann asked for clarification if NOAA wants the main pipe or just the exit pipe coated with a slick material. The exit pipe is the main concern.*
- 3.3.2.[June 20] BON Hydro Survey - ACTION: Kovalchuk will consult with Ebner about potential spill bay modifications. *Status: Ebner said "I think Tom is being very optimistic about how fast we can make things happen. At this time there are no plans to modify the existing spillway gates or spillway at Bonneville from a Dam Safety or Project perspective." Lorz said that Ebner was supposed to be getting funding for a modeling trip and didn't know if that was still going to happen. This topic can move to the next WFFDRWG meeting.*
- 3.3.3.[July 20] TDA AWS - ACTION: Cordie will double check with the mechanical engineer to make sure that the reduced time to float debris off the trash rack won't cause any problems to equipment. *Status: Email update from 200709: Schlenker confirmed that the number of hours was a guess-ta-mate.*

## 4. Updates

### 4.1. NWW

- 4.1.1. Upcoming maintenance/construction/research activities.
  - 4.1.1.1. FPOM outages schedule (Setter) – MCN spill bay 15: crane 6 will not be repaired until the end of October. The cranes are old, and it is hard to find parts. MCN fish pump 1 will stay on until Setter has an update. LMN floating guide wall will be

discussed under the MOC section. IHR unit 3 runner install – no work has gone on since COVID, so Setter pushed out the start date to 2022.

- 4.1.1.2.** Doble testing at night initial discussion – Morrill had requested to discuss whether Doble testing could be done at night. Setter has had some preliminary conversations with the projects. IHR and MCN have multiple lines but the other projects don't. The maintenance occurred as planned. Van Dyke said that at TMT, the work was described as mandatory at LWG. Van Dyke is proposing a change form, but it isn't quite ready. Morrill has been discussing the issue at FPAC as well. Setter said that the Corps O&M budget will either be flat or declining. There are tradeoffs in maintenance to think about. Going to nighttime will cost more money that will be taken out of other maintenance activities. The work is dangerous. Setter needs to analyze the increased costs compared to the fish benefits. Bettin suggested looking at a power side to see if there is a cost benefit. Once he hears the time proposed, BPA will model it. The projects with one line will be the most impacted. Swank said that they are trying to learn more about the work and how much flexibility there is. Setter needs a specific proposal to discuss with the projects. The regional managers are still working on a specific proposal.
- 4.1.1.3.** LWG PIT spill bay – The contractor will address a couple of warranty issues after spill ends. Vibration on the tailrace deck causes the conduits to come loose. The contractor will fortify these conduits. The electrical wiring that has a temporary fix using an extension cord needs a permanent fix. Warf is hoping for a live fish test this spring. Van Dyke asked if the work being described requires the TSW to be shut off. Warf said they will wait until spill is complete because the issue is not a personnel safety but rather an equipment damage issue. The work will be done after the spill season, but the exact dates are not known. The new PM has reached out to the contractor. Van Dyke asked when the warranty expires. It is a one year warranty and it was handed over to the Corps in February.
- 4.1.1.4.** Transfer of the B-transformer - Warf said that PSMFC has taken over the O&M of the transformer and Shutters is working the transfer. Hockersmith asked if Shutters transferred the LGS and LMN counting windows. BPA owns the antennas. The bottom line is no. PSMFC is not having a problem with O&M and can work on the transceivers and related networking equipment.
- 4.1.1.5.** LGS Roof replacement – An MOC went out late yesterday. The roof repair workers need to work under the power lines. For safety reasons, all units will be off for 4-5 days, and all water will be spilled. The work will be in late June. The AWS pumps will be running but there will be a huge eddy from the spill. Lorz asked if they could do some work in June and then wait to do the electrical work until past the fish season. The roofing has to be done in the dry weather. Bettin is looking at an earlier or later time for the outage and bus work. Conder is not okay with the MOC as written and has concerns about the end of the sockeye run. Lorz said the proposal needs work. Van Dyke asked why it couldn't be done in August. The work takes four months and the temperatures would be too cold at the end of the four months.

## **4.2. NWP**

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

- 4.2.1.1.** 20BON16 MOC Mid-Season ROV WA SH inspection – A couple of feet of sand but nothing that needs a contract this winter. No blown gratings were observed. Unfortunately, there was a miscommunication on the second ROV and it was not scheduled.
- 4.2.1.2.** 15TDA08 MOC Transformer Installation – no update.
- 4.2.1.3.** 19TDA04 MOC Crane rail Replacement – Contractors are prepping now. Night work starts in November.

- 4.2.1.4. 18JDA02 MOC Trash rack replacement – No update. Royer needs to re-coordinate the work.
- 4.2.1.5. 20JDA04 MOC STS crane replacement – no update
- 4.2.1.6. 20JDA06 MOC Line 1 Outage – Bushing Replacement – The outage has been cancelled. The work will be contracted out.
- 4.2.2. BON ITS gate – No update; still on the same schedule.
- 4.2.3. BON Rock Removal – MOC for the hydro-survey was sent out yesterday and shooting for December rock removal.
- 4.2.4. BON JMF wetland sinkholes and proposed repair – A picture was added to the website. A couple of wetland ponds that are feed by the JMF and they drained accidentally. The ponds now are dry sinkholes. The project may cap the drains to try get them filled up again.
- 4.2.5. BON Cascade Island PIT – The existing detection system from the subsidence area is being moved to the Cascade Island count station. PSMFC sent drawings to the Corps on the structural improvements required. BON has created a cost estimate (\$107K) and is looking for the funding. Warf is at the final stages of the design, but they need to make sure that the Corps portion of the work will be done for this winter. PSMFC doesn't want to store the antennas for a long period of time because they are fragile. Hausmann doesn't know if the work can be done this winter and is unsure about the status of UFR money. Mackey's budget is about \$2 million short. Warf asked if Hausmann would be more certain after October when the fiscal calendar changes. October would bring more clarity, but it is still not certain. Warf needs to be updated on the Corps' side so he can contract out his work. The drawings were sent to the engineering team in July, but BON doesn't have money to charge to. Some work has been done while prepping for the Cascade Island lamprey trap electrical work. Hausmann will discuss with the budget staff on Monday. Van Dyke asked if this precludes detections for adults in the ladder. Warf said that the current system is working. The subsidence could snap the conduits and if it would snap, then it would stop the Cascade Island detection system. It is difficult to do O&M on the system since it is difficult to walk over there. Mackey's short fall is mainly for Willamette Valley hatcheries.
- 4.2.6. TDA AWS- BS trash rack – there was a problem with debris when the system was running this spring. A PDT is looking at a solution. There is a second problem with trash getting behind the trash rack. TDA confirmed that there is gap and they are pulling it today.
- 4.2.7. TDA MU22 sturgeon and Turbine Dewatering SOP– MU22 was forced out of service. Over a hundred sturgeon were removed. The end units are difficult. The sturgeon were brought up through a hatch in the floor. A large 6.5' sturgeon had to be pulled out with the stretchers system by the rescue team. It appears that 6.5' is the largest they can handle so Cordie is proposing not to pull out the very large fish. There is water circulation and the fish would be safe. Bellerud would prefer to see the fish remain in place with water circulation. Spinal injuries on large fish are common if trying to pull on one end of the fish. There is uplift drains, leakage on the bulkheads and the fish save mode that can keep a high volume of water. Bettin asked if there is an alarm. Fish save mode keeps the water in the draft tube plus there is water level indication in the control room. Bellerud suggested the project make sure everyone is aware of the status of that unit. Van Dyke asked if the unit is fully dewatered. When the unit goes down, the unit is fully dewatered to have access to the fish. The unit is then allowed to return to fish save mode (30-40' of water). Van Dyke needs to discuss this protocol with ODFW sturgeon experts. Morrill will also follow up with WDFW sturgeon experts. **ACTION: Van Dyke and Morrill will discuss the proposed protocol with their respective sturgeon experts.** Hausmann said that BON is in the same position. Van Dyke asked for details on the protocol. The SOP includes backing down the fish units to get a better seal on the tail logs. It was not done on MU22 but was done on MU21. MU21 had less sturgeon. TDA is also proposing backing down main units close to the area to prevent sturgeon from entering the draft tube.

- 4.2.8. TDA trunnion pin – no update
- 4.2.9. JDA north pumps – Pump 4 is still out of service. Pump 5 just went out of service with a grease issue but no problems meeting fish entrance criteria.
- 4.2.10. JDA spill bay 10 – The bay is being operated manually. The project will repair it in September after spill season.
- 4.2.11. JDA SCADA – Electricians are working on the SCADA system right now with yearend money.
- 4.2.12. JDA post warm water sampling – Warm water sampling protocol is in effect. JDA would prefer to stick to the COVID-19 protocol daytime condition sampling- every other day, daytime sampling. Van Dyke would prefer that the Corps follows standard sampling protocols. Van Dyke has concerns that this COVID-19 sampling protocol doesn't get grandfathered in without consulting the region. Grosvenor said that the project is short staffed since they couldn't hire anybody. **ACTION: Grosvenor will write an MOC on the sampling protocol.**
- 4.2.13. Mid-Season ROV inspections
  - 4.2.13.1. BON – The project doesn't have their own ROV. They had a miscommunication with the dive safety office. The dive safety team schedule is booked up now. Hausmann was wondering if they should skip the ROV inspection or take the ladder down during higher passage time. Bradford Island was taken down this past winter and it has been looked at recently. Mackey recommended writing an MOC with two options: no ROV and a date that works for Dive Safety. Hausmann thinks that there is a low risk of not doing an ROV due to the recent Bradford Island dewatering. **ACTION: Hausmann will write an MOC on the ROV inspection options.** Morrill asked if the other projects had their own ROV and could help BON out. TDA and JDA do their own ROV. BON had an ROV but it was failure prone.
  - 4.2.13.2. TDA – ROV was done 03 August. No issues were found.
  - 4.2.13.3. JDA – ROV completed 13 August. No issues were found.

**4.3. NWS (Seattle) – no update**

**4.4. Research/FFDRWG updates.**

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

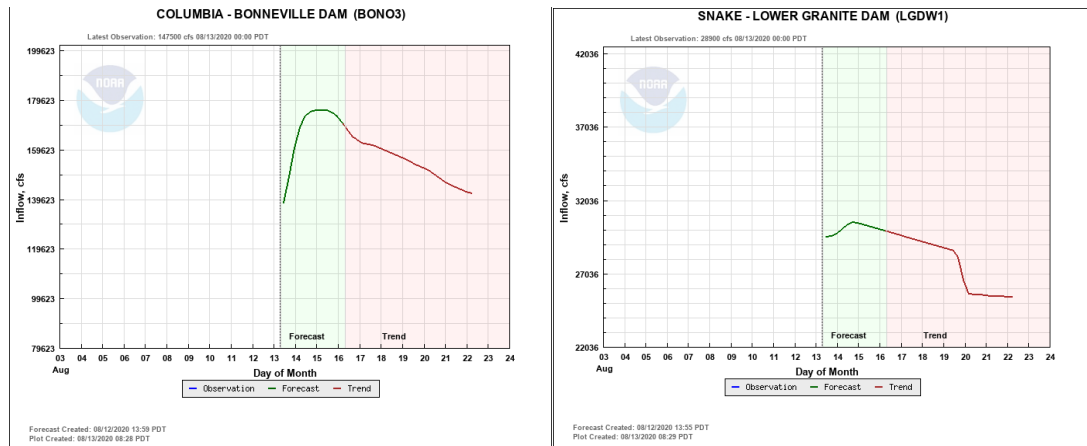
4.4.1. NWP FFDRWG – There was a meeting last week. A new PDT was started to look at different alternatives to prevent rocks from entering the BON spill stilling basin.

4.4.2. NWW FFDRWG – Next meeting October 22, 2020

**4.5. RCC update**

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	30	30	25	25 (8/22) / 31 (8/14)
MCN	147	158	137	137 (8/22) / 183 (8/14)
BON	146	162	142	141 (8/22) / 176 (8/15)

**Table 1. RCC flow forecast**



**4.6. BPA update – [Outage Schedule]** The transmission outages are posted to the website. There was supposed to be a JDA line 1 outage on Monday for BPA that was postponed. Line 3 can't come back to service yet because they are still investigating the failed equipment. There is a line replacement at BON that is running on schedule but if there is a problem then PH1 units will come online. The proposed October outage at JDA is discussed under the MOC section (See 8.14).

**4.7. Fish Count Program update (Peery, Wertheimer)** – The video has confirmed that sockeye counts are correct at IHR. WDFW tulle counters have been given access to stream video due to a fiber optic line installed at BON. Artificial intelligence is being tested to process the night time video at LWG. A fish passing will trigger the camera to take several pictures. A counter comes in the morning to process the pictures. If it is successful, it will be implemented at other projects. At IHR, a counter has retired who had some poor QC scores. Swank asked if lamprey are recognized as a fish by the AI camera. Peery said yes, it does count lamprey. The AI pictures are compared to the video counts for QA and the counter is still subject to QC.

**4.8. Pinniped update**

**4.8.1. BON** – Periodic pinniped monitoring started in August. The trigger for monitoring full time (above 20) was reached and will start on 17 August. USDA will start hazing 7 days a week on 17 August until 31 October.

**4.8.2. Willamette Falls** – ODFW is not seeing any sea lions and doesn't expect to see until November. ODFW has observed CSL in Astoria. Van Dyke did not have update to share about the permitting situation for SSL.

**4.9. Lamprey update** – All four LPS are operational. The run size is lower than previous years (1/3 of ten-year average). Current total count at BON is 10,568. McClain sends out a monthly update.

**5. NWP Oil spill reporting requirements (10:00)** – Ken Duncan is at the District Office as the environmental compliance and energy sustainability program manager. He is also the regulatory POC for the district. For hydropower facilities, oil is used as lubrication of the turbines and insulating oil for the transformers. The Clean Water Act has many requirements that the dams must follow. Spill prevention and counter measure plans are required for any facility holding large quantities of oil in proximity to a navigable US waterway. All the dams have detailed plans on how to prevent oil spills and all spills are reported. Oil accountability is another requirement because the facilities can lose oil without a sheen. The Corps is required to report first to the National Response Center operated by the Coast Guard. On the Columbia, spills are reported to Oregon and Washington emergency response centers and any potential downstream water users. The Willamette Valley Bi Op requires notification to regional fish managers. There is an informal agreement with CRITFC/CRITFE. The Columbia River Keepers are notified one business day after the spill per the lawsuit settlement. The Corps is an active participant with the regional response team. They run drills for potential crude oil spills from a



train and fuel spill from barges coming up the river. MU 18 spill was identified not by a sheen but by the oil accountability program noticing missing oil. Small spills are addressed by in house resources; big spills would be addressed by a contractor. Lorz asked about fines. Federal agencies are not subject to fines under the Clean Water Act but they are under other laws. In 2009, the TDA spill had a criminal investigation by EPA for who transferred the spare transformer without proper spill protection. Lorz asked about less toxic lubricants. All greases on the Columbia have been changed out to an Environmentally Acceptable Lubricant (EAL). In response to the lawsuit, they were able to replace all the greases. There a couple of situations where the EAL won't work like a wire rope going into the river because it breaks down too quickly. Transformers have no PCB oils anymore but there are some residues left. Conder asked what a reportable spill and amount of spill is that would shut down a unit. Any oil loss is reportable. Missing oil is reported as a spill. Oil accountability allows the Corps to measure oil and detect any changes. Any amount of oil loss would shut down a unit; MU 18 was shut down because of unexplained missing oil. Grease is considered a regulated discharge and not subject to the same oil reporting requirements.

## **6. Avian updates (10:30)**

- 6.1.1.NWW – MCN** –only a handful of pelicans, not much feeding going on. The project is still waiting on the second laser to arrive. The pelican presence does appear to follow the adult shad migration but there are still concerns that they opportunistically feed on other salmonid species. The pelican presence at the outfall has been low this year but previously, pelicans have hit the outfall hard. **LMN** – not much avian activity, gulls appear to be eating shad. Pelicans showed up in late May and left in the beginning of August but there were never very many. The concern is even if the pelicans are eating adult shad, they would still be in the position to predate on sockeye and out-migrating salmonids. The avian counts are in the annual reports and are posted to the website. **LGS** – bird numbers are low and would expect to increase in September and October. Pelicans have been very light, max 2 per day. **LWG** – very few pelicans at the dam and they are usually at the islands roosting.
- 6.1.2.JDA**- Significant decrease of pelicans from the peak of 500 per day to 50-60 at the island and tailrace. Boat hazing stopped at the end of July. Only pelicans are left; no gulls are present.
- 6.1.3.TDA** – Similar drop as JDA from 200 to 50 average pelicans per day and not actively foraging. Gull numbers are high 10 – 80 per day. DCC numbers are steady.
- 6.1.4.BON** – very few birds: a few cormorants and a couple of gulls.
- 6.1.5.Estuary – Rice, Miller and Pillar** –There are less than 20 Caspian terns per daily observation. The Corps is complying with the Navigation Bi Op. There is also a drop in cormorant numbers. Pelicans have moved to Rice Island and nesting was confirmed. The nest is outside of the dredge placement so monitoring will be inconsistent. Due to low bird numbers, monitoring has ended for the season. The de-mob process will wait until after the fishery at the buoy 10 ends. De-mob includes all the passage dissuasion, equipment and four wheelers. McDowell asked if they observed pelican fledglings. FFU never saw live fledglings but did find dead chicks and saw nest predation. The pelican colony that used to be on Miller moved to Rice. The pelican nests were on Rice.
- 6.1.6.ESI** – This year, there no successful fledglings or nests on colony. Birds are starting to leave, average of 800 birds down from 1100 birds on the south colony. Scrapes are down as well, average of 593 down from 689. FFU isn't doesn't have accurate counts because they can't find a printer with high enough resolution, but they are still trying to find one. General observations from the blind are 2500-3500 Caspian terns, down from 5500-6500. Bald eagle presence and harassment has been high. Bald eagle presence is unusual for this time of year. The plan is to go back down the first week of September and assess the colony.



7. **Invasive species discussion (Setter) awaiting response on shad disposal during sampling activity (Morrill, Van Dyke) – no update**
  
8. **Coordination/Notification forms (need concurrence/discussion)**
  - 8.1. 20LGS14 MFR - 6C2 Orifice Liner
  - 8.2. 20LGS15 MFR – Spill gate 2 Motor Failure
  - 8.3. 20LGS16 MOC Powerhouse Roof Repair – comments are due 27 August.
  - 8.4. 20LMN06 MFR - Fish Pump Outage
  - 8.5. 20LMN07 MFR - Early Closing of RSW
  - 8.6. 20LMN08 MOC Floating Guide Wall Cable Emergency Repair – Repairing the cable to the floating guide wall will not interrupt unit priority or spill operations. Dredging is required because the cable is buried under sediment. The work will take a couple of weeks and be completed by the end of September. This repair is the permanent fix. The RSW is already closed. The work will start as soon as the dive is contracted. The dredging won't start for a couple of weeks, but they still expect to be completed by the end of September. Conder has concerns about turbidity during the dredging. Part of the dredging contract is water quality control. The sediment will be removed and put on a truck. The guide wall is concrete to the river bottom. Sediment would have to go around the wall to get to the ladder. Conder asked if flow from the nav lock could be added to push any plume of turbidity away from the ladder. Lorz asked if there was trigger of turbidity to increase mitigation measures. Shelin said that state water quality standards will be required to be met during the contract and compared to the background. By using clam shell, they believe they will be able to reduce turbidity. If standards are not met, the contractor will have to slow down or stop the dredging until they meet standards. Conder asked if they could monitor the ladder exit. Shelin said it is not in the contract and another monitor would have to be found. Conder would like at least visual inspection. Barnes said they can look at the turbidity throughout the operation. The work is on the south side of the project. Van Dyke asked if 1-2 weeks is for the entire operation. Barnes said that the old cable will be removed while the dredge is being mobilized. The dredging and cable installation should take 1-2 weeks. Conder asked if the project will be work around the surface weir spill operation in October per the new Bi Op. Setter was not sure when the new Bi Op spill would be required. Conder said that he has had confirmation that it will be enforced this October. Setter is still waiting until the ROD is signed. Baus asked about forebay requirements for this operation. Neither Hockersmith nor Barnes has not heard of any forebay requests. Shelin said that a forebay requirement is not common for a dredge operation. **ACTION: Barnes will double check that no forebay restrictions are required.** Conder wants to resolve the surface weir spill from the Bi Op. The spill starts in October so it should be past this work. Bettin suggested asking the divers if the RSW could be open during this work just in case. Barnes said that divers have worked in the spillway with the RSW going before. Baus asked about the new spill operations. Beginning October 01, all Snake River projects and MCN will have four hours of spill for overshoots. Setter asked Conder for an update next month on the new spill operation. Conder cited the new Bi Op: Surface oriented spill will be provided from 01 Oct -15 Nov in the Fall and 01-30 March in the spring at the five Snake River dams at least three times each on non-consecutive days. The spill will occur in the morning between 0500- 1100. **Page 1400.**
  - 8.7. 20IHR06 MFR Gatewell 3B temporary orifice closure
  - 8.8. 20MCN06 MFR - Missed Sampling due to dewatering valve failure – another valve failed in August that caused two more missed sampling days.
  - 8.9. 20MCN07 MFR - Spillway Crane 6&Hoist15 – The overshoot study can still be supported. Bay 20 requires a crane and bay 19 uses a hoist. Johnson clarified that 20 had a hoist and they might put one back on it.
  - 8.10. 20JDA10 MOC Line 1 Outage to install spacers – Bettin said that this is cancelled.

- 8.11. 20JDA11 MOC Line 3 outage to install spacers – this outage will most likely be extended. These are units that are low on the priority.
- 8.12. 20JDA12 MOC Spill bay 2 attraction flow – The new summer spill pattern did not include any additional attraction flow to the north ladder. Lorz thinks it is a good idea. Bellerud agreed and would not want to be without spill without modeling results. From September – Nov there is 1.6kcfs from bay 2 during daylight hours. Van Dyke doesn't think that a decision can be made here because the agreement was made from the flex spill work group. The plan is to add the one stop during daylight hours not to try to move spill from the TSW. Bettin agreed to this spill. Van Dyke said he would be okay with the addition but was trying to stick to the agreed upon decision. Wright needs agreement from Askelson to change the FPP patterns. Mackey would like the FPP changed like the pattern from BON where 1 and 18 are on for adult attraction. **FPOM concurred.**
- 8.13. 20JDA13 MFR Spillway Climbing Inspections
- 8.14. 20JDA14 MOC Line 1 outage – BPA transmission work – Unit 5 will be running. The work was supposed to be piggyback on the Corps outage. The Corps' outage is now canceled. Lorz said that he will be watching the counts and will request additional spill at the north shore, if necessary. Van Dyke would like to discuss the issue offline with Bettin and will send in comments. Bettin said that the equipment is very old and needs to be updated. The outages are very long (3 months) and there are 30 coming up. The idea is to have all the outages completed by early 2022. Bettin needs to confirm that the problem with line 3 is not a design flaw which would cause a delay to this work.
- 8.15. 20TDA09 MFR PL Mort MU22
- 8.16. 20TDA10 MOC PUD Smolt Bypass Extended Outage – The PUD is building a new facility and are looking to have an extended outage of the bypass pipe to have 5 months to build. The outage is a maximum of 5 months and they will try to do it in less. Adults can't fit through the spacing of the trash rack so they would not be affected by this outage. Bellerud would like a phone call to follow up to discuss the MOC. Conder asked if there would be a PIT detection system installed. The PUD didn't have money for an antenna. They only get a few hundred smolt per year, mostly fry (80% of the sample). The current collection tank is very turbulent. Sampling requires a forebay restriction. There are also some safety concerns associated with the current sampling. A better sampling facility would improve accuracy of passage numbers. Swank asked how confident that any fish trapped in the area would survive. Martinson did not have a lot of confidence, but they may have to evacuate shad more often than anticipated. Comments are due on 26 August.
- 8.17. 20BON69 MOC PH2 outage for electrical work – The work requires a complete outage for 10 days. There is a void in the transformer, and it is a significant concern. A lightning strike would cause major problems. Lorz asked if they could push it back to late October. Hausmann thinks that there is some flexibility. Bettin said that originally it was scheduled for December but TDG increases plus there is rock removal scheduled at the same time. Bettin said that it is close to the end of October. Lorz asked how long the project has operated with this void but it is not known. Lorz asked about the corner collector. Mackey said that the corner collector opens first according to the FPP. Lorz said it is not in the MOC currently and needs to be included. Conder prefers the end of October. SSL presence is high then too. **Van Dyke is supportive of December.** He asked if there are any other factors that could change this date. Hausmann said that there are no other factors but needs solid dates for a contract for the LFS hatch. The comment period ended at this meeting. Bettin asked what the main biological concern is. Lorz said it is entrances not having flow with high SSL presence. The entrances will be open. No flow going to PH2 will mean very few fish going over there. The fish will go to the PH1 but if they are wondering a bit then they can be eaten by a sea lion. Bettin said that this is just the opposite of what normally occurs with no flow coming from PH1. There will be hazing going on by USDA. Bettin asked when CRITFC hazes by boat. CRITFC hazes in the spring and usually CSL. Lorz can ask if they

would like to haze. Van Dyke said that this operation will impact fish passage and appreciates the mitigation concerns. Bettin, Hausmann, Mackey and Kovalchuk need to have special call after this meeting.

**8.18.** 20BON 37-68 and 70-80 MFRs – Conder asked why there has been so many mini jack MFRs. Hausmann doesn't know why. Picketed leads are raised for lamprey and sockeye can get passed but Hausmann isn't sure if mini jacks can as well.

**8.19.** 20BON81 MOC Hydro-survey for Rock Removal – This hydro-survey has been done many times previously. The team has scheduled the survey for 01 September. It is usually a half day of work but the issue is always the HECF clearance procedure. Bay 1 will be open while bay 18 is closed and vice versa. Swank said that he noticed the impacts said “none” for lamprey, but impacts would be like the other upstream migrants. Hausmann said that the project typically lower flows for lamprey entrances and it is tricky to figure out what the impacts are for lamprey. Hausmann will update the lamprey impacts. Swank would like a reasonable explanation for the lamprey impacts written down, especially when the impact says none or minimal, to make sure lamprey were considered.

**9. Fish Passage Plan:** The final 2020 FPP went into effect March 1 and is available online at:

<http://pweb.crohms.org/tmt/documents/fpp/2020/>

**9.1. Pending Change Forms:**

**9.1.1.** 20IHR003 – Operating Gates Position (Anderson, Hockersmith) – Anderson would like to schedule a special FFDRWG before the next FPOM meeting to address the questions he has received. Lorz asked one of the options was to refurbish the telescoping weirs and now that is not one. He wants clarity on why. Anderson will investigate the option. Usually there is a 30, 60 and 90 report but that wasn't done this time. Cooper has not received the data that was requested at the last meeting. Anderson sent out the email on 09 July. He will re-send the email to the group. Morrill requested the hourly data. **Pending.**

**9.1.2.** 20AppG003\_LWG-Dewatering (Peery, Holdren) The protocol is a result of the mortality event MFR that came out in April. Holdren is updating the language to reflect the lessons learned from that event. **Pending.** Van Dyke asked for the schedule for the FPP meeting. The annual meeting is the 3<sup>rd</sup> Thursday in January. Getting FPP forms in season is appreciated. Mid-December is date that forms have to be submitted to Wright.

**9.1.3. New Change Forms:**

**10. Task Group Updates.**

**10.1.** Avian Task Group meeting – This group will reconvene, and the chair is Bob Cordie. Kovalchuk and Cordie will discuss offline about the task group.