

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 09 July 2020 FPOM meeting.

The meeting was held via teleconference. In attendance:

<b>Last</b>	<b>First</b>	<b>Agency</b>	<b>Email</b>
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## 1. Final decisions or recommendations made at this meeting.

### 1.1. June meeting minutes were approved.

- 1.2. Information on pelican abundance should be sent to Derek Stinson at [Derek.Stinson@dfw.wa.gov](mailto:Derek.Stinson@dfw.wa.gov) and Jason Fidorra at [Jason.Fidorra@dfw.wa.gov](mailto:Jason.Fidorra@dfw.wa.gov).

## 2. Action Items

### 2.1. NWW

2.1.1. [July 20] 20IHR003 - ACTION: Anderson will send out the historical reports and will look for the fall chinook FGE report that Conder referenced.

2.1.2. [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. *Status: If there is going to be a change, the project needs two weeks' notice to plan the work. There is flexibility in this date but advanced notice is required. Hockersmith went back through the historical study and the FFDWRG minutes. He reviewed the data with and without the TSW and did a modeling exercise to see what project passage would have been. Conder said that meets what he was thinking. He also suggests looking at the possible implications to adult ST overshoots and the timing of the studies. Hockersmith does have the timing of the study plus temporal components. No route specific temporal studies have been done just project passage with temporal components. Lorz said that 06 MCN might have some route specific information but it is old. Van Dyke suggested adding TDG and the spill pattern as variables for the time period being modeled. Hockersmith said that the model is not very involved. For the length of the season, the model includes the proportion that passed through a route, the survival through that route plus whether or not the TSW is in place. Setter suggested adding another column with the spill. In 2006, two new patterns were tested. In 2007, the TSW went in and the pattern evolved into one. Van Dyke understands the complications but thinks that all the information needs to be in the model to make the best management decision. Pending.*

### 2.2. NWP

2.2.1. [July 20] 20JDA05 MOC Spill bay 10 repair - ACTION: Grosvenor will find out which bays the flow went to and write in a spreadsheet.

2.2.2. [July 20] 18JDA02 MOC Trashrack replacement - ACTION: Royer will send the outage schedule to Bettin.

2.2.3. [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.

2.2.4. [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 Whooshh 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. *Status: Conder asked for a sample of the material. Whooshh could provide a sample but they had some restrictions so this will not be pursued any further. The project will continue to look for a new material.*

2.2.5. [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.*

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

- 2.3.1.[May 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. Status: No information was sent out but the spill was spread out over the other gates. The gate should be fixed by 18 June. Status: Lorz did not see the spill pattern and would like to know where the flow went. Grosvenor said that they can write a spreadsheet with the spill pattern. ACTION: Grosvenor will find out which bays the flow went to and write in a spreadsheet. Van Dyke stressed that he still would like to know what the pattern was. Lorz asked if the people who made the JDA pattern were consulted. Grosvenor said that Sean Askelson was consulted.
- 2.3.2.[May 20] BON PH1 ITS endgate** - ACTION: Derugin will get back to FPOM with more cost details. Status: The gate received funding at the Capital Work Group meeting.
- 2.3.3.[June 20] BON ROV Survey** – ACTION: Hausmann will write an MOC for FPOM review. Status: Completed.
- 2.3.4.[June 20] 20JDA06 MOC Line 1 Outage Bushing replacement** - ACTION: Fielding will track down data when units 1-4 were off and there was no additional attraction on the north and update the MOC. See Coordination/Notification section.

## **3. Updates**

### **3.1. NWW**

- 3.1.1. Upcoming maintenance/construction/research activities.**
- 3.1.1.1.** FPOM outages schedule (Setter) – The timing for the unit 3 runner install at IHR is the only change. The contractor is not back on site due to COVID so the construction is expected to go through Dec 2021.
- 3.1.1.2.** Doble Testing July 20-26 IHR
- 3.1.1.3.** Turbine oil replacement U4-6 IHR July 20-Aug 15
- 3.1.1.4.** Doble testing at LGS July 27-Aug 6. All units OOS and Unit 4 at SNL for station service on first and last day of testing, July 27 and Aug 6. Units 1-4 available the rest of the time.
- 3.1.1.5.** LMN Nav Lock wall emergency outage - Conder asked about the Nav lock floating wall. Setter is not prepared to discuss this topic today. Conder would like the proposal to start in February instead of March. Setter said that the group doing the work is in environmental compliance for major construction. As these requests come in, Setter would like to strengthen the relationship so that these topics come to FPOM in a timely fashion. Conder said that the ESA coverage in the Bi Op is contingent on FPOM concurrence and following the FPP guidelines. The temporary fix could move forward but the permanent fix needs to be coordinated. Setter will continue to work with this group and bring forward any topics necessary.
- 3.1.2.LWG Adult Trap operation (Ebel)** – NOAA has not operated the trap due to COVID since the spring. Due to the importance of the trap operations, IDFG has been working to resume trap operations with IDFG personnel. On 02 July, a 3-4 person skeleton crew started work. They are only handling ST not CH. The crews are taking scales, fin clips and PIT tagging. As fish numbers are down, they are getting experience working the trap. IDFG is working

with NOAA remotely. When fish numbers pick up, they will work with other groups to make sure that they are meeting the needs of the region and fish safety.

### 3.2. NWP

#### 3.2.1. Upcoming maintenance/construction/research activities.

- 3.2.1.1. 20BON16 MOC Mid-Season ROV WA SH inspection – The work occurs today. They are doing the collection channel.
- 3.2.1.2. 20BON23 MFR ODFW Overshoot study – The approval from BON project came through today. ODFW will start to set up and begin tagging next week. CRITFC is still sampling and ODFW will be working with them including during the high temperatures. Conder said that they will have the same restrictions as CRITFC in high temperatures and the take is covered by US V Oregon. Conder thinks that the study could have been presented to FPOM better. It was not clear that the high temperatures protocol was going to be the same as the AFF protocols. It could have prevented the knee jerk reactions from FPOM members. Another reason for better coordination is that had they coordinated with other groups and they may have been able to use the acoustic receivers at MCN. Conder would prefer protocol like the SRWG process for comments on research. Van Dyke thought they were trying to start the process early by presenting in April 2019. Bellerud had concerns about interference with the MCN overshoot study. He would like tighter coordination so there was no interference between studies. Bellerud is okay with concurrence.
- 3.2.1.3. 15TDA08 MOC Transformer Installation – working on T7 now and T1 still scheduled to come out in October.
- 3.2.1.4. 19TDA04 MOC Crane rail Replacement – no update
- 3.2.1.5. 20TDA03 MOC gatewell 18.1 – The project switched the gatewell to 18-1 but they don't have the data to see if it worked. They have moved the sluiceway back to 18-2 as per the FPP. There is only about 1 hour that they can see into the gatewells.
- 3.2.1.6. 18JDA02 MOC Trash rack replacement – no update – on track. Lorz asked about scheduling the outages together. Bettin said that Royer has not sent the schedule yet. **ACTION: Royer needs to send the outage schedule to Bettin.** There is another unrelated line 1 outage.
- 3.2.1.7. 20JDA04 MOC STS crane replacement – on track and on schedule
- 3.2.1.8. 20JDA05 MOC Spill bay 10 repair – The project will add in the information that Lorz requested into the after action item. The gear box repair did not work so they are operating the spill bay manually.
- 3.2.2. BON ITS gate – The expected contract award date is in December with delivery in March. The cost was \$750K but has now increased because they are doing both parts of the gate.
- 3.2.3. TDA F1 outage – F1 was OOS for a couple of weeks. It is repaired and back in service. The MFR has been updated.
- 3.2.4. TDA AWS – The AWS was operated during the F1 outage. The AWS was shut down to float debris off several times. The operation worked but they observed large pieces of wood on the inside of the trash rack. The project will use an ROV to see if the trash rack pieces are seated properly. The project was concerned about big pieces going under the diffuser gratings so they decided to reduce the run time at night. Originally, they were supposed to shut off the AWS for 10-12 hrs but they reduced the time to 4 hours as a test and it worked. Bettin thought the designers of the system might be concerned about heat buildup that required the longer shut down time. Cordie sent out an email to several people but only Schlenker replied and he thought it was a good idea. The hydraulic side suggested the time length; it was not a mechanical decision. **ACTION: Cordie will double check with the mechanical engineer.**
- 3.2.5. TDA trunnion pin – no update

3.2.6. JDA north pumps – 5 of 6 pumps are available. It won't be fixed until the IWW period. JDA has a big back log of maintenance.

3.2.7. JDA SCADA – Electricians are still working on the SCADA system and hoping to have it finished by the end of the fiscal year. JDA is going back to 90-95% staff next week. MCN, IHR and LMN are at 50% staff; LWG and LGS are back to full staff.

3.3. NWS (Seattle) – Cousins introduced herself and is listening in today. She will be coordinating issues mostly relating to operations at Chief Joe and possibly Albani Falls or Libby as well.

3.4. Research/FFDRWG updates.

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

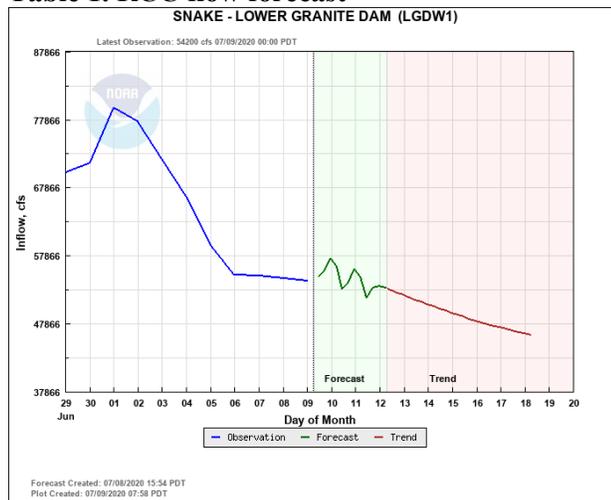
3.4.1. NWP FFDRWG - B2FGE contracting is close to solicitation for the gatewell modification of the first unit, MU 15. Concrete work would occur during the IWW period and hydraulic testing in the gatewell will follow in the spring of 2021. The next NWP FFDRWG is scheduled for Thursday, Aug. 6. Jake will send an agenda as it gets closer. Conder asked about MU11. Bettin said the plan is to do MU 11 in the IWWP. MU15 would be done this winter and test in the fall. MU 11 would be the next IWWP.

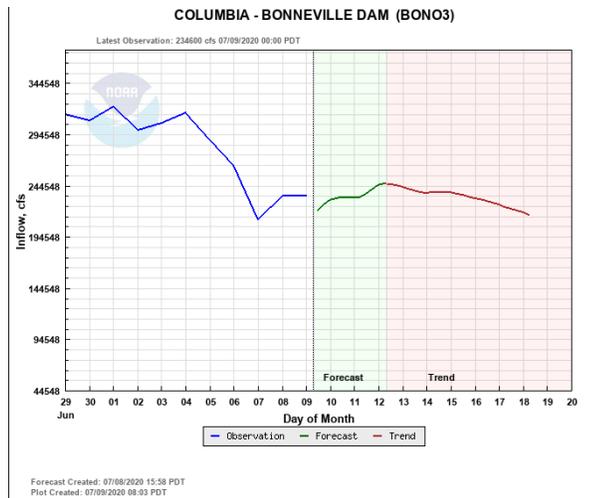
3.4.2. NWW FFDRWG – July 23. Norton requested that any topics be sent to him. He will be sending out the draft agenda next week.

3.5. RCC update

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Low/Peak (kcfs) and date.
LWG	55	52	46	46 (7/18) / 58 (7/9)
MCN	229	235	211	211 (7/18) / 242 (7/11)
BON	234	241	216	216 (7/18) / 246 (7/12)

Table 1. RCC flow forecast





**3.6. BPA update** – The outages will be posted after the meeting. Bettin asked if the LGS double testing is really 10 days long. Setter said she double checked with the person taking the outage and there was no update. The outage is for 12hrs on 27 July and 06 August from 0500-1700. The work be will updating the ISO phase bus work and other items. Bettin asked if it will it be brought back daily. The first and last day are the 12 hrs outages but the other days, units 1-4 will be in service. Bettin has an outage scheduled from 8/2-8/6 at LWG but Setter said it is not happening. Bettin will double check on their end. There is an ongoing outage that replaces a line from Cascade Locks to BON. If there is a failure, then they would need to use PH1. That outage has been ongoing since March and Bettin isn't expecting any failures. Conder asked about the 12 hr outage at LGS double testing to see if they could start later in the day for passage concerns. Setter said that they will be setting up the work for the whole outage and that the 12hr outage is just the first and last day. When Conder realized that the outage wasn't for the whole time, he was fine with it.

**3.7. Fish Count Program update (Peery, Wertheimer)** – The contract modifications are now in place. Peery received the normal annual request from WDFW to count tule fall Chinook salmon at Bonneville Dam. Typically this involves WDFW personnel coming into the count stations for some hours a day. This will not be possible this year because of COVID restrictions. Peery suggested to have a separate feed to provide video remotely to WDFW, which would also help CRITFC and the ST observations. FPC changed their website address. It is now <https://www.fpc.org>. Van Dyke said that there may be several steps involved because of the increased security. Morrill said that he had similar problems requiring security warnings yesterday but it is working today. Cooper said that the change is related to the hacking incident last year. The website has been updated since yesterday. Setter said on the Corps server, certain certificates and credentials are required. The website worked for some people and some people deleted the credentials. Cooper will continue to look into the situation. Van Dyke suggested going through your agencies IT department. Morrill asked what the QA/QC targets in the contract are. Peery said that counts are supposed to be 95% accurate with the blind QC counts. The Corps shoots for 95% on the QA. Every counter is checked one hour a month. Morrill brought up the shad/sockeye counting errors at IHR and wanted to make sure that attention was paid to that issue. Peery said that several additional procedures were put in place – extra training throughout the year on identification. Peery had a video conference with the contractor and went over old video to point out specific ID instructions. Peery gave an example of a counter misidentifying a ST as a sockeye.

**3.8. Pinniped update**

**3.8.1. BON** – No sea lions have been present since May. FFU is using motion detection cameras to monitor but will start daily observations soon. Tidwell expects sea lions to return in the

next week or two. He is also continuing to work on the hazing efficacy study for the fall. The final report will be in the fall.

**3.8.2. Willamette Falls** – no sea lions are present. The States are still working on permitting issues.

**3.9. Lamprey update** – The LPS at BON are functioning. FFU is monitoring the counters. Overall, counts are low compared to historic numbers. From 2008-17, the average number of lamprey that had passed up to this point is ~13,000, in 2018 the count was 28K and in 2020, the count is just under 5,000. These counts are daytime window counts but it can still be used as a relative index. Water temperature is increasing; the number of lamprey MFRs will be increasing as well. McClain said that if people want to compare MFR information from previous years, he can. The WA SH flume is not running. Hausmann is trying to get funding for the hatch repair. MacDonald said that he is aware of the outage schedule and is trying to get the work coordinated. Lorz asked if the wetted wall will be running this year. The recent Wetted Wall report shows that it passed fish. McClain said that lamprey are using it but it is hard to know if the fish are recycled or are moving past. Lorz cited 444 lamprey using the wetted wall from the NOAA report. McClain said that the monitoring was problematic and that the 444 is an expanded number for the whole season. Lorz said that the reports need to be better at explaining their message and the Corps should be demanding from the contractors to provide better reports. The wetted wall is not being used this year. Van Dyke said that most studies go through the SRWG process and asked if the objectives were laid out in the study design. McClain said it was a feasibility study. His criticism is on the amount of monitoring needed to expand the data out for the whole season not whether or not fish used the wall. McClain is not familiar with the SRWG study objectives but can look into it. MacDonald said that the study was problematic but they are looking at making the wetted wall into a trap for next year. Once it is a trap, they will be able to count the number of fish that use it. **UPDATE:** The actual numbers from the report were 444 observed lamprey passage events over the wetted wall. In the results section it said "By expanding these values to the entire operation season, we estimated that 1,713 lamprey used the wetted wall based on night counts or 1,207 used the wall based on total counts."

### **3.10. Avian updates**

#### **3.10.1. NWP**

**3.10.1.1. ESI** – FFU was on colony yesterday and coordinating with the civil air patrol. Three flights combined with people on the ground in blind will be used to enumerate the peak colony. Currently there are ~5K birds on colony and 1800 Caspian Terns (CT) outside of the colony. Outside the colony, 1200 scrapes were counted and an increase from previous weeks but it was after two days of no dissuasion. The one acre colony is behind – no nests with chicks or multiple eggs. Bald eagle activity is very high. FFU will continue monitoring and they can now do overnight trips. Lorz asked for an estimate of colony nests. Tidwell said ~2500 but noted that the actual counts will be coming out in a couple of weeks. The total count is ~6800 birds (5K on colony, 1800 off colony).

**3.10.1.2. Rice, Millar and Pillar** – FFU has been monitoring and actively dissuading at these islands. This work is part of the Channels and Harbor Navigation Bi Op requirements. Tidwell reminded the group that there is a new dredge material placement site on the western side of Rice Island. FFU has successfully dissuaded CT from this new site. Observations include: 0 scrapes, 12 CT below the deposition site, 0 CT on Millar and 0 CT on Pillar. The Millar pelicans have shifted to the Rice Island with a successful nest. FFU isn't required to count pelicans but noted >100 pelicans. Morrill wants to make sure that WDFW is aware of this colony. Van Dyke asked about counts on the Astoria-Megler bridge. DCC is discussed at a different bi-weekly AMT call. James Lowann from ODFW does the counts at the bridge. Lorz suggested

merging the AMT calls with FPOM to have a complete understanding of birds in the Columbia Basin. Van Dyke liked the idea and said that there are a lot of predatory birds that require management and need holistic discussions. Morrill said that the WDFW species diversity group was working with a group involved with West Coast bird populations to create a report. The report is still in draft form and will share once the information has been published.

- 3.10.1.3. BON** – a few cormorants and gulls; typical bird numbers.
- 3.10.1.4. TDA** – Pelicans numbers are increasing. The gulls are being bullied out by the pelicans. Cordie is reviewing Allen Evans’ study showing URB predation by pelicans in this reach. Cordie would like to see a stomach sample study on pelicans. Skiles asked if the pelicans are at the ladder exits. Cordie said that the pelicans are downstream of the spillway and hit the spill white water line in the tailrace. Skiles does the inspections of Grant PUD projects and has observed pelicans at the exits this year coinciding with the sockeye run. According to Evan’s report, Badger Island colony population has increased by 3x since 2005. Van Dyke asked if the RTR study was based on PIT tag collection. Skiles said that he thought that the study was based on PIT tag deposition at Pelican colonies but he wasn’t sure if this study is published yet. The researchers are working on the deposition rates. Van Dyke said that shad tagging would be the next step. Lorz said that tagging other species is not necessarily the next step. Scat and stomach samples can identify what was eaten. Lorz said that the Corps is supposed to incorporate all the studies into one report in SWRG and will remind MacDonald at the prioritization meeting. The report Cordie referenced is one from Allen Evans and RTR. Trachtenbarg said the report that Lorz referenced will be sent out this week. He said there are not that many studies in the Lower Columbia on pelicans. Parker said that it has been difficult to study the pelicans due to the ESA restrictions by WDFW. Morrill said that is correct but the five year population review will be coming soon. Any information on pelicans for the upcoming population review could help change the listing. Morrill will send the link for information to include in the minutes. Information on pelican abundance should be sent to Derek Stinson at [Derek.Stinson@dfw.wa.gov](mailto:Derek.Stinson@dfw.wa.gov) and Jason Fidorra at [Jason.Fidorra@dfw.wa.gov](mailto:Jason.Fidorra@dfw.wa.gov).
- 3.10.1.5. JDA** –lots of pelicans are present: ~500 on the island and ~220 in the tailrace zone. The avian grid has no effect on the pelicans. Pelicans can go right underneath the lines. Parker asked how hard it would be to haze those birds if the restrictions were lifted. Grosvenor said that the hazers are not allowed under the grid but it would be easy to haze outside the grid. Parker asked about the island. If the island wasn’t there, Grosvenor thought the pelicans would move down stream. Cousins recommended contacting her for additional ideas since she has experience with bird deterrents. Pelicans do disperse the gulls at JDA as well. Morrill said that the major concern for WDFW was interfering with breeding pairs especially at the MCN outfall since it is close to the colony. Morrill welcomed all information that can help WDFW make an educated review of the populations.
- 3.10.2. NWW** – MCN has fluctuating bird numbers that are typical for this time of year with ~60 pelicans. MCN built an exclusion device to keep pelicans out of the ladder which worked but there are about a dozen pelicans feeding outside the floating orifice gates. There are not enough gulls and cormorants to test the lasers out and noted very little activity at the outfall all year. Parker asked if the project is hazing the birds at the floating orifice gates. The birds are on the outside not inside the orifice and MCN is not hazing because pelicans are protected. It is a hard location to haze or observe in that area. The pelicans come and feed when the shad arrive but it is similar to sockeye timing as well. This is the second year of

having them right outside the floating orifice gates. There are very few birds at the other Snake River Projects, mostly cormorants and some gulls; only IHR has pelicans.

- 4. Invasive species discussion (Setter) awaiting response on shad disposal during sampling activity (Morrill, Van Dyke)** – Setter has not had any feedback yet from WDFW or ODFW. WDFW is in furlough mode and working at 80%. Van Dyke is continuing to bring up the conversation but isn't ready to share anything yet. Lorz asked if the Bi Op has any opportunity to add something on this topic. Setter said that it would have to go through Division and she has a list of higher priority items already. The invasive species team meets regularly but their discussions are not known at FPOM. Setter said it is late in the process to add anything to the Bi Op. The Tribes haven't seen even a draft of the Bi Op so Lorz doesn't feel it is too late. This topic hasn't gone anywhere in FPOM in a couple of years; adding something to the Bi Op may start the process. Conder said that the Tribes will be briefed next week on the conservation recommendations and recommends passing on any substantial comments to the policy folks at CRITFC. Setter said that there is an action for the LWG trap. There is consideration of a shad fishery in the lower river. Ebel asked if NOAA was briefing the entire region or just the tribes. NOAA will be briefing the tribes. There is no legal mandate for states to review prior to publishing. Due to the expedited schedule, there has been less review on this Bi Op. Conder suggested discussing with policy folks and requesting a briefing. Lorz said the tribes only got a briefing due to the Trust Responsibilities and the Accords language.
  
- 5. Coordination/Notification forms (need concurrence/discussion)**
  - 5.1. 20 LWG 04 MFR-Barge Direct Load Mortality
  - 5.2. 20 LWG 05 MFR-Juvenile Subyearling Chinook Mortality
  - 5.3. 20 LGS 06 MFR –Flume Mortalities
  - 5.4. 20 LGS 07 MFR-Unit priority to remove debris
  - 5.5. 20 LGS 08 MFR-Modified ASW operation
  - 5.6. 20 LGS 09 MFR-Transport Fish Released to River
  - 5.7. 20 LGS 10 MFR Adult Ladder Cooling Pump Late Start
  - 5.8. 20 LGS 11 MFR - Additional Fish Transported
  - 5.9. 20 LGS 12 MFR - Backflush Air Supply Orifice 1C1
  - 5.10. 20 LMN 03 MFR-Mechanical Brush failure in Primary Dewatering Structure
  - 5.11. 20 LMN 04 MFR-Delayed Opening of RSW
  - 5.12. 20 LMN 05 MFR-Unit Priority Deviation for Troubleshooting Alarm
  - 5.13. 20 IHR 05 MFR - North shore AWS pumps turned off to clear debris
  - 5.14. 20 MCN 03 Unit Priority during line outage
  - 5.15. 20 MCN 04 MFR Pelicans in OR Fishway
  - 5.16. MCN screen cleaning issue- Setter thought the situation was completed but Hockersmith said he received an email after FPOM started saying that there are additional problems with the screen cleaners. Mechanics need to replace two more limit switches. The limit switches are burning out quicker than expected. The whole system was updated two years ago. The problem is mostly electrical and MCN is looking for better limit switches. Lorz asked if the project would wait until the IWWP to change the switches out. Setter thought it would be this winter but will keep the topic on the agenda. Lorz suggested sending the topic to FFDRWG. The rehab was CRFM funded. Setter said that the project is trying to work out several issues like work crews, spare parts and better limit switches.
  - 5.17. 20JDA06 MOC Line 1 Outage – Bushing replacement – Grosvenor said that last year, there was a contingency plan to add spill to the north if MU5 was not in service. Since it never actually went out of service, there was no additional spill. After reviewing the data from last year, Grosvenor doesn't think that spill is necessary. He offered to add a clause if MU5 were to go out of service but it is not expected to. Lorz asked for the information on adult passage that he

asked for last month. Grosvenor said there was information in the MOC on last year's passage. Lorz still needs to deliberate on the information. Pending.

5.18. 20TDA04-8 MFR

5.19. 20BON17-33 MFR

5.20. Bettin said that there will be an outage at BON in October but no MOC was written yet. Mackey said that it will not be discussed until it has been submitted and distributed to FPOM.

6. **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/>

6.1. **Pending Change Forms: none**

6.2. **New Change Forms:**

6.2.1.20IHR003 – Operating Gates Position (Anderson, Hockersmith) –At IHR, the head gates are set in the raised position and operated by telescoping cylinders. He gave a brief explanation that NWW would like to replace the cylinders with single stage instead of telescoping for multiple OM reasons. The effects of the single stage cylinder change are in the attached white paper and there has been several discussions with the region in other forums. Hockersmith said that based on the discussion at a special FFDRWG some additional information on the flow condition for the summer migrants at LMN, a description of the head gate position and the benefit to fish was added to the white paper. Hockersmith believes that the benefit to fish is during an oil spill. When there is an oil spill those units have to be out of service. Thompson was not present today at the meeting so Conder can't make a decision. Conder asked what the timeline is. Anderson said that they were hoping to have a decision before December. He will discuss the timeline with the PDT and we can revisit next month. Conder is finding it difficult to follow the change in opinion on some of the research work that was done in the 80s and 90s. Since there was a benefit to the raised position, he is unclear why that doesn't matter anymore. Lorz reiterated that this change form is asking them to change a protocol that they believe is a benefit to fish. In the new operation, IHR will be spilling less in the summer and sub yearling were the species that would benefit from the raised gates. Conder tried to go back and look at the studies. He thought that he remembered a specific benefit to summer migrants but couldn't find that study. Conder asked Anderson if he could remember the study that showed a point benefit of the gate in the raised position in the summer. Anderson couldn't remember the specific study and said that the studies were mostly at LMN with the ESBS so the benefits can't be directly translated. He has more confidence in these later studies because of the number of fish used. Conder needs a focus on the summer period with the results from all the studies including both STS and ESBS. He can't understand why Ledgerwood's results are no longer considered valid. Cooper added that there was a request for more information and only one study was sent out. Anderson referenced the studies in the white paper. The Corps no longer maintains the library and the studies are difficult to find in an online search. The region would like the studies resent out for review. Conder said that there are potential benefits but he needs more information before making a decision. Morrill said his comments were not addressed in the updated white paper. Anderson said that it was included in the second update. During the FGE study at LMN, Barnes did not see increased mortality. The gatewell velocities might be different with ESBS screened projects. Lorz doesn't want the decision of single stage cylinders to be okay at all projects. Morrill thought the cost and engineering was explained well but there is a tradeoff for fish and the biological impact was not captured correctly. Conder pointed out that depending on the project and the study, there are different results and some with a benefit. Conder thought that Morrill meant fish guidance efficiency not PIT PH in his comments and Morrill agreed. Hockersmith listed several differences of the operations and migration timing at the projects

since the Ledgerwood work. Conder is looking for a study at the later part of the season. It could be the 2013 report that Hockersmith referenced but the draft version. Morrill said he used the current situation not the previous studies to make his comments. Ebel said that there is a connection between the calculation of PIT PH and the FGE. **ACTION: Anderson will send out the historical reports and will look for the fall chinook FGE that Conder is looking for. PENDING.**

## 7. Task Group Updates.

8. **LMN Descaling** - Conder said that descaling at LMN is higher than the rest of the Snake River projects. Setter will look into it. **Email response from Hockersmith 200709** – “FPOM, NOAA asked during the July 9th FPOM meeting about the recent elevated descaling at Lower Monumental Dam and suggested the project staff examine the orifices for debris issues.

The descaling was 0.0% on July 5th and 6th, 8.4% on July 7th and 6.1% on July 8th. The preliminary descaling estimate for today's sample (7/9) at Lower Monumental Dam was 2.8%.

Due to the sudden increase in descaling the Project Biologist and a maintenance worker inspected all sections of the JBS on July 7th for potential issues including orifices, dewatering structure, sections of the flume with access hatches, the separator, sampling gates etc. No issues were found. Debris loads have been minimal this year and gatewells are clear. Trash racks were last cleaned on June 15th. The descaling on July 7th and 8th did not appear to be fresh and may have occurred prior to fish passing Lower Monumental Dam. Project staff will continue to monitor the situation.

Eric Hockersmith”

9. Morrill said that he would like the staff at PTAGIS to have the opportunity to revisit the work at LGS adult channel in the IWWP. There is some new technology that can improve detections. Setter recommended discussing with Scott St. John directly.