

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 15 February 2019 FPOM meeting.

The meeting was held as a conference call. In attendance:

| Last | First | Agency | Email |
|-------------|-----------|---------|--|
| Anderson | Karl | NWW | Karl.R.Anderson.usace.army.mil |
| Baus | Doug | NWD-RCC | Douglas.m.Baus@usace.army.mil |
| Bellerud | Blane | NOAA | Blane.Bellerud@noaa.gov |
| Bettin | Scott | BPA | swbettin@bpa.gov |
| Conder | Trevor | NOAA | trevor.conder@noaa.gov |
| Cordie | Robert | NWP-TDA | Robert.P.Cordie@usace.army.mil |
| Eppard | Brad | NWP | Mathew.B.Eppard@usace.army.mil |
| Hausmann | Ben | NWP-BON | Ben.J.Hausmann@usace.army.mil |
| Hockersmith | Eric | NWW | Eric.E.Hockersmith@usace.army.mil |
| Johnson | Bobby | NWW-MCN | bobby.johnson@usace.army.mil |
| Kiefer | Russ | IDFG | Russ.kiefer@idfg.idaho.gov |
| Kovalchuk | Erin | NWP | Erin.H.Kovalchuk@usace.army.mil |
| Lorz | Tom | CRITFC | lor@critfc.org |
| Lundell | Tina | NWP | Tina.M.Lundell@usace.army.mil |
| Mackey | Tammy | NWP | Tammy.m.mackey@usace.army.mil |
| Morrill | Charlie | WDFW | Charles.Morrill@dfw.wa.gov |
| Peterson | Christine | BPA | chpetersen@bpa.gov |
| Schneider | Dan | Whooshh | dan.schneider@whooshh.com |
| Scott | Shane | NWPA | shane@sscottandassociates.com |
| Sullivan | Leah | BPA | lssullivan@bpa.gov |
| Swank | David | USFWS | David_Swank@fws.gov |
| Thompson | Josie | NOAA | Josie.Thompson@noaa.gov |
| VanDyke | Erick | ODFW | erick.s.vandyke@state.or.us |
| Wertheimer | Robert | NWP-FFU | Robert.H.Wertheimer@usace.army.mil |
| Willard | Caleb | NWW | Caleb.M.Willard@usace.army.mil |
| Wright | Lisa | NWD-RCC | Lisa.S.Wright@usace.army.mil |
| Wright | Albert | NWP | Albert.W.Wright@gorge.net |
| Zyndol | Miro | NWP | Miro.A.Zyndol@usace.army.mil |

1. Final decisions or recommendations made at this meeting.

- 1.1. January meeting minutes were approved.
- 1.2. FPOM recommends closing the ITS while the B2CC is open (except for passing debris) but opening the ITS with deeper gates during the dredging and switching back to the B2CC after the dredging is completed.
- 1.3. Whooshh – FPOM had several suggestions on the design. Conder will engage Meyer in the discussion. A site visit will be necessary for final approval of the design. BON will move forward on the paperwork.

- 1.4. TDA Fish unit breakers - If the fish units are not back in service by 01 March and the back-up AWS is available, the back-up AWS will be run. If the back-up AWS is not available, there will be a conference call to discuss spill.
- 1.5. FPOM recommends conducting the forebay temperature string study for a second year.
- 1.6. MOC
 - 1.6.1. 16LGS16 Discharge Pipe Plug & Unit 1 Valve Rotation – No comments.
 - 1.6.2. 18JDA08 MOC Line 1 outage – Bushing Replacement – No additional comments were received.
- 1.7. FPP change Forms
 - 1.7.1. 19BON001 PH2 Mid-range Operation - Approved as originally written for the 2016 operation for the printed copy; Bettin's additions are still pending as in-season management decisions.
 - 1.7.2. 19MCN004 MCN – Approved
 - 1.7.3. 19IHR002 – Lamprey Structure Operation – Approved
 - 1.7.4. 19LGS005 – Unit Priority – Approved as revised to 1, 6, 2, 3, 4 and 5.
 - 1.7.5. 19LWG002 – Close FOGs – Revised to 4 & 7 closed and 1 & 10 open. Approved with revisions.
 - 1.7.6. 19AppI001 – New DWR section – Approved
 - 1.7.7. 19AppL001-005 Avian Plan Updates – Hazing dates were updated but Setter pulled the other changes.
 - 1.7.8. 19AppL006 Add hazing table – Approved. Table was added no wording was removed.

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 (NWW)*
- 2.3. *BPA outages (BPA)*
- 2.4. *SLED Extensions (NWP)*
- 2.5. *SLEDS for Sockeye (NWP)*
- 2.6. *2018 Preliminary John Day Dam Walleye Pilot diet summary v2 (ODFW)*
- 2.7. *2017 BON Spillway ROV Inspection Report (NWP)*
- 2.8. *2018 BON Spillway ROV Rock Inspection Report (NWP)*
- 2.9. *2018 Temp Profile Study LCOR Forebay Final Feb 2019 (NWP)*
- 2.10. *TDA steelhead EvN March for TDA FU breakers discussion*
- 2.11. *Coordination Forms (MOC/MFR)(NWW/NWP)*
- 2.12. *FPP Change Forms (NWW/NWP)*
- 2.13. *Whooshh Scanner at AFF, Supplemental Pictures and Diagrams, v4.*
- 2.14. *TMT LGS Adult Chinook Passage for 19LGS005 discussion*

3. Action Items

3.1. NWW

- 3.1.1. **[February 19] MCN – ACTION:** After the avian deterrent laser is mounted, Johnson will provide pictures.
- 3.1.2. **[February 19] MCN - ACTION:** A laser effectiveness study plan will be sent out to FPOM for comments.
- 3.1.3. **[February 19] MCN - ACTION:** Setter will send out a brochure from the laser company.
- 3.1.4. **[September 18] LWG - ACTION:** Holdren will investigate the possibility of changing the bulbs in the channel. Status: Pending. Spider webs might be causing the light problem. The project will try spraying to be more effective against spiders. *Status: Spider webs were removed and the mirror has been lowered. All lights are on and visible in the mirror.*

3.2. NWP

3.2.1.[February 19] Whooshh - ACTION: Conder will engage Meyer on the design.

3.2.2.[February 19] Rock Removal - ACTION: Kovalchuk will find out if the ROV report is final.

3.2.3.[December 18] TDA dam angling Catch Results - ACTION: Morrill will ask Winther for data to be broken down by month. *Status: Morrill said to expect the final report before the next FPOM.*

3.2.4.[July 18] SLEDS Extensions - ACTION: Hausmann will look into the feasibility of modifying the SLEDS. Status: Hausmann will get a cost estimate for the short bulkhead. *Status: Hausmann had hoped to get a ball park estimate from the FOG bulkheads but the method of cost per pound of steel doesn't work in this case. Engineering will need to make a cost estimate.*

3.2.5.[July 18] SLEDS timeframe- ACTION: Hausmann will write a change form and an MFR on the SLEDS. Status: BON needs to know before June. *Status: Still pending.*

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

4. Updates

4.1. NWW

4.1.1. Upcoming maintenance/construction/research activities.

4.1.1.1. FPOM outages schedule (Setter) – [Handout] LGS – Setter added the installation of permanent electricity for the fish ladder cooling pumps in the next in-winter work period to the schedule. LMN - unit 1 and 4 should return 01 March. MCN - new leaf gates were added. The contract will be awarded in April and will be discussed at the next FFDRWG. The work on outfall should be completed by the next juvenile season. Morrill asked if there was an update on the green laser. Johnson said the laser system has been ordered. It will be installed on the Nav Lock wing wall so the laser can shoot across the outfall. **ACTION: After the laser is mounted, Johnson will provide pictures.** Lorz suggested a block study instead of comparisons of bird numbers between years. Setter said that this laser system was purchased because the water cannon was damaged so if it was turned off, the laser would not be an effective deterrent for birds. Johnson isn't sure of how to turn it on/off yet. The laser does have an emergency power button and is automatic with 16 auto settings. **ACTION: A laser effectiveness study plan will be sent out to FPOM for comments.** **ACTION: Setter will send out a brochure from the laser company.** Conder suggested doing more than one count per day. Johnson is concerned that this study is more than his group can handle. Morrill suggested video monitoring. He worked with PSMFC on the pelican monitoring. Bettin asked what work will be done in the contract. The broken walkway, hand rails and the cannon are being removed. The outfall pipe was not secure at the last pillar and will be reattached. Bettin asked if there will be any change of operation for this work. Setter did not think so. LWG – spill way PIT work for 18/19 winter has been completed including the core drills and the side seal replacement.

4.1.1.2. Transport discussion (Hockersmith) – TDG monitoring for 2019 will be similar 2018 focusing on the 2000 and 8000 series barges and adding one raceway monitor at each of the three dams. The monitoring equipment has not been acquired yet. Morrill asked if the TDG monitor in the forebay could be read for the facility. Hockersmith said it is easily readable but it is a point location and not applicable to the raceway. Conder asked about GBT monitoring for fish in the raceways. Hockersmith said that fish going over the separator bars are sampled but the raceways are not. There is staff but it is a different program (SMP). Sampling would be very challenging considering the depth of the raceways. The TDG monitoring will not be real time. Morrill

commented that Marsh worked out of the east raceway for years and hadn't mentioned any problems. The TDG monitoring can an evolving conversation for the future.

- 4.1.1.3.** LMN Unit 6 – Water was found in the hub of Unit 6. The maintenance will have to hydraulically lock the blades at 25° just below the top end of 1% within the week. It will remain a fixed blade unit until August when it will go out of service for double testing and blade seal repair and then return to Kaplan. Unit 6 is last in priority. The angle for unit 2 will be changed on the 20th and unit 4 will be done this week. Index testing will be completed to make sure the units are operating within the 1%. Units 2 and 6 are fixed blade, 3 and 5 are Kaplan and the others will come back as Kaplan. Conder said that the FPP language needs to be updated. Wright said that LMN003 updated the language. Setter would like to see the draft language and there is a draft section with draft language. Van Dyke reminded Setter that the change form includes units that have not returned as Kaplan yet. This language was discussed at FPP meeting and was decided to be included. Van Dyke asked why a unit is at the top of 1% rather than mid-range or lower end. Setter said the preference is for maximum generation. The turbine survival program indicated that survival would be better above 1%.

4.2. NWP

4.2.1. Upcoming maintenance/construction/research activities.

- 4.2.1.1.** BON rock removal (19BON02) – Spillway attraction water was turned off on 11 February for a hydro-survey and remained off for the rock removal which started on 13 February. The rock removal is ahead of schedule and the fish unit dredging should start on 16 February. Lorz requested that the COE check to see if the report on the website is the final report. **ACTION: Kovalchuk will find out if the report is final.** Due to safety concerns, the B2CC will be off during the dredging. The sluiceway has partially returned to service with the three auto gates open and the last two deep gates are closed. Bettin said the ITS should be off while the B2CC is running. Only one surface route is required at this time of year. Lorz said that since PH1 is priority, the ITS should be open but since it isn't back to full open the B2CC should be open as well. BON was using the ITS to pass debris. Bettin said the ITS used to be 700cfs but the flow was doubled after the upgrades. Since this route is for adults, Conder suggested opening the gates deeper. Hausmann will have to check if it is possible. The dredging will take about three days since it is 24hrs a day. Mackey suggests opening the ITS during the dredging and switch back to the B2CC after the dredging. **FPOM recommends closing the ITS while the B2CC is open (except for passing debris) but opening the ITS with deeper gates during the dredging and switching back to the B2CC after the dredging is completed.** Lorz and Van Dyke are apprehensive but will agree. Lorz wants to change the FPP to have a surface route running over priority powerhouse.

- 4.2.1.2.** Whooshh installation (18BON67) – Hausmann sent out the new proposal and diagrams for review before the meeting. There is a significant change since the last proposal involving the curve of the exit pipe. Lorz asked how close the pipe will be to the wall. Sneider described the new layout saying the outside diameter of pipe 1 will be ~20" from the wall tilted towards the wall. Lorz suggested going a little closer to the wall and titling the other way. The pipe extends past the scanner by ~6". The scanner and pipe #2 should be almost the same slope. The new green walkway will be installed for maintenance. Sneider said that if the Whooshh exit pipe becomes unusable then the other exit pipe can still be used. Hausmann pointed out that currently both pipes are being used so if one pipe is out of service than this would impact the researchers; it is not a redundant system. Hausmann is not expecting any issues but wanted to point out the language is not accurate. Conder asked when the

pipe would be ready for review. Sneider thinks by 01 March. A similar scanner is used in the Willamette. Conder pointed out that the fish used in this system have a higher listed status. Lorz suggested Meyer should take a look. Conder asked if at this point, Whoosh can adjust their pipe design. Sneider will have to see the joint range when the pipe is removed or they will have to add a spacer. Conder recommended curving away from the wall. Hausmann asked if there could be a small transition pipe or if any of the removed pipe could be used but there is a problem with the thickness. There is a back-up spacer that was planned for. **ACTION: Conder will engage Meyer on the design. A site visit will be necessary for final approval of the design. BON will move forward on the paperwork.**

- 4.2.1.3.** TDA Fish Unit Breakers (18TDA14) –There are two separate projects to be updated the Back-up AWS and the fish unit breakers but they are intertwined. The project discovered a crack in the housing of the 10' valve of the AWS back-up system and is currently tagged out. The fish unit breaker is scheduled to be commissioned the last week of February and turned over to the project before the 01 March start of fish season. After the breaker work is completed, the project requires a week of testing until the fish units can be used. The back-up AWS system will be run in place of the fish units if it is available. The project and contractor are reviewing the AWS system valve crack and checking to see if it can be manually opened. Wright will send out an update to Mackey on the status of the valve. The north ladder is back to service and only one fish ladder is required during the winter period. Since the project rushed the north back to service, there is still brush removal that was not completed. Spill of 15kcfs increases passage to the north ladder but that flow was studied when the east ladder was running. Fish could still be attracted to the powerhouse flow. Lorz is concerned about fish going towards the powerhouse and not finding an entrance. **If the fish units are not back in service by 01 March and the back-up AWS is available, the back-up AWS will be run. If the back-up AWS is not available, there will be a conference call to discuss spill.** If one unit comes back sooner, then the AWS and one unit could be used. *A conference call to discuss the fish unit breakers is scheduled for Monday February 25, 2019 at 1400.*
- 4.2.2.**BON fish unit trash rack repair/replacement/cleaning – The upper racks have been cleaned and waiting on dredging to remove the lower racks.
- 4.2.3.**BON CI subsidence – BON has not received the final report on the core drilling. PSMFC has a preference to move the detection site to the UMT. The new location is good but Cascade Island exit opens every other year.
- 4.2.4.**BON ITS – see 4.2.1.1.
- 4.2.4.1.** Kelt Trigger – Not ready yet
- 4.2.5.**Forebay Temperature Strings (Lundell) – The report was posted on 12 February. Several tables were added comparing the sites that was not in the AFEP presentation. BON and TDA had very little stratification but JDA did. Lundell felt that the focus should be on John Day for next year. Van Dyke would prefer two years of data since one year is just a snapshot and might not show a complete picture. Morrill agreed with Van Dyke. Conder noticed the depths at TDA and BON were shallower compared to JDA and wondered if they are the deepest locations. The bathymetry was reviewed to find the best locations. BON and TDA are shallow but they looked for the deepest locations that are near the ladder. Conder noticed that there is missing temperature data from JDA on the FPC website. Zyndol will look into the data gap. Conder asked about interest in MCN. Setter would need to have a separate discussion. This study was looking at potential locations for pulling cooler water in the event of high differentials from the forebay to tailwater within the ladder. Ryan Loughery did a study project but it might not have included MCN. This topic should go to FFDRWG. **FPOM recommends conducting the forebay temperature string study for a**

second year. Lundell suggested omitting the TDA-N string and adding one at JDA but Van Dyke would like the study to remain the same. The installation dates will be similar to last year assuming the funding comes through.

4.2.6. Dam Angling (WDFW/ODFW) – [Handout] Van Dyke provided a summary of the results from the pilot program of walleye stomach samples conducted at John Day Dam. The handout provided catch and effort, pilot collection information, and diet characterization for John Day dam angled Walleye. Based on last 9 years of John Day Dam angling data both Northern Pikeminnow and Walleye catch trended upward. Catch-per unit was generally greater than two Northern Pikeminnow per hour angled while Walleye were largely less than or equal to one walleye every six hours. Northern Pikeminnow were more likely to have empty stomach than Walleye that contain a food item in every sampled fish. Although the probability of salmon or trout in the diet was higher for Walleye than Northern Pikeminnow (0.214 vs 0.133, respectively) the relative catch of Walleye was orders of magnitude lower than Northern Pikeminnow and as such appears to be consistent with earlier findings that the expected consumption of salmon or trout by Walleye would be less than that anticipated by Northern Pikeminnow in the tailwater of John Day Dam. Verification of this relationship would require developing consumption index for Walleye which is not currently available. Bettin asked if there were any bass/walleye in the Pikeminnow stomachs but Van Dyke did not look into this. Siberian prawns were frequently found in the walleye diet. The dam angling program is targeting pikeminnow and Van Dyke thinks that angling specifically for walleye might yield a different result. Bellerud thinks the data might be more certain with more fish but the results show that walleye are eating salmonids. Van Dyke said that without a consumption index for walleye the exact relationship is not known. The handout shares diet evaluation that shows angled walleye were eating other things than salmon. I was particularly surprised that invertebrates (primarily Siberian prawns), not fish were the primary diet item identified in John Day Dam angled Walleye sampled. Lorz said that the fish being targeted (pikeminnow) are known to be in the area for smolt consumption then wouldn't the walleye be there for the same reason. Walleye unlike pikeminnow or sea lions are not native. Bellerud said that the positive results of presence of salmonids and catch records from past years dam angling show an important problem. Van Dyke said the bigger picture is knowing if removing walleye would have a significant effect. Morrill feels that this study is a snapshot and not enough data to make a policy change. Cordie asked what probability of salmon in the diet of walleye (0.2 in the report) would be considered too much by the States. Van Dyke said that is the number alone is not what they are considering. There are several factors. Lorz said that the data indicates that walleye eat salmonids but that this decision on walleye may be a policy issues and not a science driven decision. Van Dyke would like to know if the study should be continued next year. Morrill doesn't feel that he has enough technical science to take back to his agency to change policy on removing bass and walleye. Bellerud recommended allowing TDA to remove the walleye and conduct diet analysis. Swank and Kiefer think a larger study including TDA should be planned to look at impact of the walleye/bass. Wertheimer suggested including if removing bass/walleye would affect their overall population as part of the study. Morrill summarized that there is a consensus from FPOM to remove walleye but the data is not complete to change policy from his agency. Walleye and bass are still game fish but the bag limits have been relaxed over the last few years.

4.2.7. Annual Maintenance activities

4.2.7.1. BON – A lot of sand was removed. STS are going in next week. A total of 2500lbs of material (mostly sand) was removed from the AWS.

4.2.7.2. TDA – North ladder is back in service and brush removal was not completed. A cable one of the EFL removable weirs broke and should be fixed this week.

4.2.7.3. JDA – The south ladder is out of service for annual maintenance. An ROV inspection of diffuser gratings was completed on 31 January and the gratings looked good. The SCADA update has to be delayed by one year. The electrical panels will be pre-assembled during the season and installed during the winter. The JBS will be in service on 01 March with four screened units and more as available.

4.3. Research/FFDRWG updates.

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

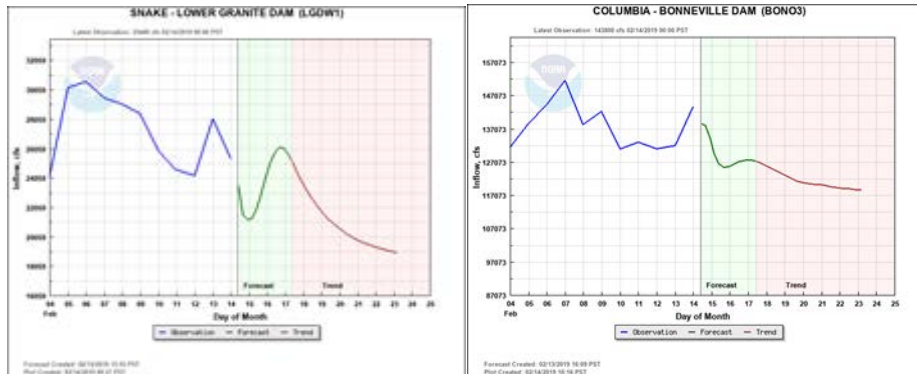
4.3.1.NWP FFDRWG – All BON PH2 gateway plates have been removed. Teletype is in place for mid-range.

4.3.2.NWW FFDRWG - The next meeting is 28 February at 1:00pm in Walla Walla.

4.4. RCC update

| Project | Previous day average (kcfs) | 5 day forecast average (kcfs) | 10 day forecast average (kcfs) | Projected Low/Peak (kcfs) and date. |
|---------|-----------------------------|-------------------------------|--------------------------------|-------------------------------------|
| LWG | 27 | 23 | 19 | 19 (2/23) / 26 (2/16) |
| MCN | 129 | 113 | 107 | 107 (2/23) / 133 (2/14) |
| BON | 137 | 125 | 119 | 119 (2/23) / 137 (2/14) |

Table 1. RCC flow forecast



4.5. BPA update – No update

4.6. Fish Count Program

4.6.1.Next 5-year adult fish counting contract – The protest was settled. The new contractor has started working and they will still need the four months to get everything ready. Perry will send out an FPOM update after the contractor is more certain of their timeline. The COE is hiring short term personnel for the counting positions until the contractor can start. Lorz suggested sending out a PAO memo.

4.7. Pinniped update -

4.7.1.TDA pinniped hazing (Cordie) - The COE does not have approval to haze pinnipeds at TDA this year. The RPA specifically says talks about Bonneville not TDA. The main sea lion that had been coming to TDA for the last couple of years has been removed but several others have been observed over the years. Conder suggests the NWP attorney talk with Robert Anderson from NOAA who is a Marine Mammal Act Specialist. TDA pinniped hazing will be in the new Biological Opinion which should be active April 01.

- 4.8. Chum update** – The tailwater of BON is continuing at a minimum of 11.3'. Morrill said that there are concerns about weather and spawning for chinook at St. Ives Island. Bettin said that the 11.3' constraint keeps the redds under water.
- 4.9. Lamprey update** – No update
- 4.9.1. BON LPS pumps** - No update
- 5. Coordination/Notification forms (need concurrence/discussion)**
- 5.1. 16LGS16 Discharge Pipe Plug & Unit 1 Valve Rotation** – No comments.
- 5.2. 19LMN01 MOC FGE Study Unit Priority and Headgate Position Changes** – No comments. Thompson said she was still on furlough during this comment period but was okay with this path. If there are just units 3 & 4 then there could be adult attraction issues.
- 5.3. 19IHR01 MFR Dewatering S. Fishway** – No comments
- 5.4. 19MCN01 MFR North Fishway Dewater** – No comments
- 5.5. 19MCN02 MFR South Fishway Dewater** – No comments
- 5.6. 18JDA08 MOC Line 1 outage – Bushing Replacement** – No additional comments were received.
- 5.7. 19JDA01 MFR Steelhead Mortality in JBS dewatering** – No comments
- 5.8. 19JDA02 MFR MU1 Tail Logs 96hrs** – No comments
- 5.9. 19BON02 MOC Spillway Attraction Flow Outage for Rock Removal**- This work is currently ongoing.
- 6. Fish Passage Plan:** Change forms approved at the meeting on February 7 and February 14 will be included in the final print version of the 2019 FPP, which goes into effect on March 1. All 2019 FPP change forms and draft chapters/appendices are posted on the FPP website:
<http://pweb.crohms.org/tmt/documents/fpp/2019/changes/>
- 6.1. 19BON001 PH2 Mid-range Operation (Rerecich, Wright)** – Conder discussed this proposal at FPAC. The main concern about going over 1% is when the sub-yearlings are passing. Spring Creek has a release in early April and then subs or sockeye aren't around until May. Conder/FPAC would be more comfortable doing an in season management operation than give blanket authority for the spring. Bettin would like to separate the comments into two different topics: carry reserves above the mid-range but still in the 1% when the juvenile trigger is in affect and 150k spill max. Carrying the reserves lasts about an hour and is very infrequent. Wright explained that there is a hard constraint during this time period where BPA would not be able to carry reserves without this provision or an in-season decision. Conder asked if they could put a limit on the number of times they do this action but that would be too complicated. Bettin said the situation arises ~3% of the time. Wright said the last time this operation was implemented during a high spill situation, there were no instances of going above 1%. Spring Creek is easy to avoid but the other releases are harder to know when they occur. Conder would be okay with this operation in April avoiding the Spring Creek released fish but the language would still need to be worked out. Wright said that the constraints on this operation are difficult to articulate and need to be easily understood by the control room. **The “carry reserves” operation is not approved as written but will be considered as in-season management decision.** Swank asked if the 150k spill cap is already part of the flex spill operation. The question is when involuntary spill is in effect, should the extra water go through the spillway or go above the mid-range constraint. Currently, the water would go through the spillway since the turbines have a hard constraint. The mid-range constraint is for gatwell conditions but the spillway above 150k cfs will bring in rocks and damage the spillway. The 150k spill cap is a case by case scenario. Conder would be okay with the cap when no smaller fish are present. **The 150k spill cap will have to be an in season management decision. Approved as originally written for the 2016 operation for the printed copy; Bettin’s additions are still pending as in-season management decisions.**
- 6.2. 19MCN004 MCN** – Approved.

- 6.3. 19IHR002 – Lamprey Structure Operation (Juhnke) – Swank is okay with dates now. Dates are July 1-October 1. **Approved.**
- 6.4. 19LGS004 – Channel Velocity (St. John)- Lorz suggests taking some velocity readings in the new location and compare them to the old location to make sure they match. The old location was picked because it was the most challenging section and it wouldn't be good to move to a location that is in criteria all the time. The location needs to be an adequate representation of velocities. **Pending.** Add to the next FPOM agenda.
- 6.5. 19LGS005 – Unit Priority (Conder) – Conder discussed with Van Dyke to incorporate his concerns. Conder would like to modify the change form to priority 1, 6, 2, 3, 4, and 5. Unit 6 is Kaplan. This is just for spring spill. **Approved as revised.**
- 6.6. 19LWG002 – Close FOGs (Holdren) – Revised to 4 & 7 closed and 1 & 10 open. **Approved with revisions.** Conder mentioned that he was surprised that the entrance is out of criteria that often. The number of occurrences should be summarized in the annual report.
- 6.7. 19AppL001 – New DWR section (Setter) – Conder would like the COE to continue to look for a physical exclusion in the tailrace. The scoping report will be sent out soon and the alternatives will be in there. Swank asked about the hatchery section and if a section should be added about contacting hatchery staff for water elevation concerns. Setter said that there was a special meeting about that situation where they developed a prioritized calling list. This could be another change form in the future. **Approved.**
- 6.8. 19AppL001 – MCN Avian Plan Updates- Setter would like to update this section with more recent data and add a chart or graph for each species. Conder said that 2013 could be a baseline year that was chosen for a reason. **Setter would like to pull L001-005 but the hazing dates need to be accurate.**
- 6.9. 19AppL002 – IHR Avian Plan Updates
- 6.10. 19AppL003 – LMN Avian Plan Updates
- 6.11. 19AppL004 – LGS Avian Plan Updates
- 6.12. 19AppL005 – LWG Avian Plan Updates
- 6.13. 19AppL006 – ADD HAZING TABLE Avian Plan Updates – Cordie wanted the table to replace the write –up section because those section were so out of date. Setter doesn't think that a table alone would adequately address the RPA. The new table will be added but no wording will be removed. Updating Appendix L and trigger discussion will go to the task group. **Approved to add table.**

7. Task Group Updates.

- 7.1. Avian Task Group (Cordie) – Cordie asked NWD for an update and they said there is no united policy. Bill Sharpe is looking into putting dredge material on the gap between the island and the rocks.