

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 12 February 2015 FPOM meeting.

The meeting was held at the CRITFC offices, Portland OR. In attendance:

Last	First	Agency	Email
Bailey	John	NWW	John.c.bailey@usace.army.mil
Benner	Dave	FPC	dbenner@fpc.org
Bettin	Scott	BPA	swbettin@bpa.gov
Conder	Trevor	NOAA	Trevor.conder@noaa.gov
Cordie	Bob	NWP-TDA	Robert.p.cordie@usace.army.mil
Doumbia	Julie	BPA	jadoumbia@bpa.gov
Fielding	Scott	NWW	Scott.d.fielding@usace.army.mil
Filardo	Margaret	FPC	mfilardo@fpc.org
Fone	Ken	NWW	Kenneth.r.fone@usace.army.mil
Fredricks	Gary	NOAA	Gary.fredricks@noaa.gov
Gersbach	Bill	NWW	William.J.Gersbach@usace.army.mil
Hausmann	Ben	NWP-BON	Ben.j.hausmann@usace.army.mil
Heller	Stan	NWW	Stanley.g.heller@usace.army.mil
Hevlin	Bill	NOAA	Bill.hevlin@noaa.gov
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
Klatte	Bern	NWW	Bernard.a.klatte@usace.army.mil
Lorz	Tom	CRITFC	lor@critfc.org
Mackey	Tammy	NWP	Tammy.m.mackey@usace.army.mil
Morrill	Charles	WDFW	Charles.morrill@dfw.wa
Scott	Shane	PPC	shane@sscottandassociates.com
Setter	Ann	NWW	Ann.L.Setter@usace.army.mil
Skalicky	Joe	USFWS	Joe_skalicky@fws.gov
Spurgeon	Bill	NWW-LMN	William.f.spurgeon@usace.army.mil
Trumbo	Brad	NWW	Bradly.a.trumbo@usace.army.mil
Van Dyke	Erick	ODFW	Erick.s.vandyke@state.or.us
Wertheimer	Bob	NWP	Robert.h.wertheimer@usace.army.mil
Wright	Lisa	NWD-RCC	Lisa.s.wright@usace.army.mil
Zorich	Nathan	NWP-FFU	Nathan.a.zorich@usace.army.mil
Zyndol	Miro	NWP-JDA	Miroslaw.a.zyndol@usace.army.mil

Doumbia, Filardo, Fone, Gersbach, Heller, Hockersmith, Johnson, Kiefer, Skalicky, and Trumbo called in.

**February birthdays include: Moody, Lut, Wills (retired), Dykstra (NWD)
HAPPY BIRTHDAY!**

1. Decisions made at this meeting.

1.1. January meeting minutes approved.

1.2. Condition Monitoring. FPOM will continue to have discussions regarding monitoring at the dams and how that ties in with Smolt Monitoring. Fredricks said he does not want to see additional handling of fish. FPOM would like to see the RFP so they can better understand what is being requested by the contractor. Bailey will mail to FPOM

1.3. FPOM agrees with both BON and TDA providing involuntary spill first through the surface passage routes before going to the spillway.

1.4. Coordination Forms

1.4.1. **14BON84** PH1 ITS end gate and WG1 repair. FPOM concurred with waiting until August.

1.4.2. **15BON01** UI hydraulic analysis in BI serpentine weirs. **Pending until the MOC is re-written.**

1.4.3. **15TDA01** TDA-E 1400cfs test. **FPOM approved with a start time after noon.**

1.4.4. **15IHR001** Ice Harbor Turbine Intake Characterization Study – Trumbo. Trumbo said alternatives are still being explored. He should be able to get back to FPOM with some options by next week. **Pending.**

1.4.5. **15IHR002** – Ice Harbor Appendix A Doble Testing. Fone said the date has changed to 20-24 July. **FPOM concurred with this MOC.**

1.4.6. **15IHR003** Unit 5 head gate cylinder replacement. **FPOM concurred with this MOC.**

1.4.7. **15LWG001** – S. Fielding. **FPOM concurred with this MOC.**

1.5. FPOM and FPAC request that the rolling winter counts continue. NWW and NWP are in agreement.

1.6. Change forms - 2015:

1.6.1. **15BON002** – Turbine Start Up Operation. *Approved with the explanation included in the main body of the FPP.*

1.6.2. **15BON003** – Table BON-7 DSM Orifice Control. *Approved*

1.6.3. **15BON006** – PH2 Mid-Point Operation Dates. *Pending.*

1.6.4. **15TDA001** – Table TDA-4 Unit Priority. *Approved*

1.6.5. **15TDA003** – Fish Lock. *Approved,*

1.6.6. **15OVE001** – FPOM Coordination. *Generally approved unless FPOM provides Wright with more comments.*

1.6.7. **15TDA004** – New Table of ITS Operations. *Approved.*

1.6.8. **15AppB00315** App B 003 – Notification Criteria. *Approved.*

1.6.9. **15AppB00415** App B 004 – Collection Facility Operations. *Pending adding minimum collection numbers, which would be consistent with the Columnaris number.*

2. The following documents were provided or discussed. Documents may be found at <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

2.1. *Agenda, Fish Passage O&M Coordination Team.*

2.2. *Cooling Water Strainers Lamprey Counts.xls.*

2.3. *Coordination/Notification Forms (NWW/NWP)*

2.4. *FPP change forms. (NWW/NWP)*

3. Action Items

3.1. NWW Action Items.

3.1.1. [Jan 15] 14DWR01 Unit 3 rehab. **ACTION:** Lorz said FPAC will discuss the TDG issues and work on the hatchery concerns. **STATUS:** *Setter said there have been meetings. It was agreed to that DWR will work to avoid TDG issues. Skalicky provided additional comments from USFWS via email (still need edited resubmitted). He also asked about forecasting and working with the forecasts. Setter said there are weekly forecasts and do in-season management. Skalicky asked about the new pipe*

to supply water to the hatchery. It appears that project has not gone any further at this time. Setter said there will be on-going dialogue with the hatchery as the year progresses and we get closer to the rehab.

- 3.1.2. MOC's and Outages-requested by Bill Hevlin. **STATUS:** NWW provided two documents that include outages and MOCs. These documents include events expected to happen later in the year. Including MOCs for some of these activities is new for NWW. In the past these might have just been included in Appendix A or discussed at the FPOM meeting. Setter asked FPOM to review the information and bring questions back to the March FPOM meeting. Hevlin agreed with looking over the information and coming back to March. Lorz was also in agreement.
 - 3.1.3. [Feb 15] Long range outages. **ACTION:** FPOM will review the two documents from NWW and bring questions to the March FPOM.
 - 3.1.4. [Feb 15] MCN Debris Management Plan. **ACTION:** FPOM will write up comments and send them to Setter.
 - 3.1.5. [Feb 15] NWW condition monitoring. **ACTION:** Bailey will send the RFP to FPOM as soon as it is released. **STATUS: completed.**
- 3.2. NWP Action Items.
- 3.2.1. [Jan 15] Pinniped meeting. **ACTION:** Hausmann will send out the information to Wertheimer and van der Leeuw. **STATUS: completed.**
 - 3.2.2. [Feb 15] Wertheimer noted that BON had involuntary spill. He said the B2CC should be the first facility opened during spill operations. **ACTION:** Wright will work on a change form stating the B2CC will be opened first during involuntary spill.
 - 3.2.3. [Feb 15] clipped and unclipped jack counting. Necessity of differentiating clipped versus unclipped jacks. Wertheimer asked FPOM how this information is being used and is it needed. Lorz said this is a TAC question. Wertheimer pointed out that gathering this information is not really feasible. Fredricks suggested this should be sent directly to TAC by Wertheimer. **ACTION:** Wertheimer will send an email to TAC and get this sorted out where it belongs.
- 3.3. Completed Action Items or to be discussed later in the agenda.
- 3.3.1. [Dec 14] MCN debris. **ACTION:** Fredricks asked MCN to develop a debris management plan for 2015. **STATUS: this will be discussed at the 12 February FPOM meeting.**
 - 3.3.2. [Jan 15] 14DWR01 Unit 3 Rehab. **ACTION:** NWW will update the MOC and re-distribute to FPOM for comments. All comments must be back to NWW by 22 January. **STATUS: complete.**
 - 3.3.3. [Jan 15] 14BON84 ITS end gate and WG1 repair. **ACTION:** Hausmann will need to update the MOC with more information – this should include a risk assessment of what flows could be, powerhouse capacity, ability to reduce the schedule.
 - 3.3.4. [Jan 15] Avian hazing effectiveness evaluation. **ACTION:** FFU will continue to work on developing a method to evaluate hazing effectiveness at each project. **STATUS: to be discussed under Avian Updates and the Avian Task Group meeting.**
 - 3.3.5. [Jan 15] Avian hazing effectiveness evaluation. **ACTION:** Klatte will talk to Environmental Planning about looking at lethal take again. **STATUS: to be discussed under Avian Updates and the Avian Task Group meeting.**
 - 3.3.6. [Jan 15] BON Ops Task Group. **ACTION:** Bettin and Wright will work on updating the change form and getting it back to FPOM before 22 January. **STATUS: complete**

4. Updates

4.1. NWW Updates.

- 4.1.1. Upcoming maintenance/construction/research activities.
- 4.1.2. MCN Washington fish ladder leak. The leak is in the bottom left-hand corner of the fish count window. MCN is going to continue to monitor the leak. Right now it isn't a significant leak. The hope is that the seals will warm up, soften, and re-seal.
- 4.1.3. IHR ogee construction delay. Hockersmith said the schedule is slipping. The contractor is not allowed to work on the deflector while IHR is spilling. IHR is currently under involuntary spill and will likely continue to spill until Saturday. The contractor will get back in once spill has ended. Conder said one of the issues will be if people are comfortable spilling over the ogee without a balloon release prior to spill season. Lorz said the concern would be if spill starts and concrete sloughs off. FPOM recommended looking at contingencies for a study since time is getting tight. There are a couple of options for getting fish condition but there will need to be a lot more discussion before deciding anything. Conder noted that a reduced concrete dry time could increase risk to concrete integrity. Setter said there were conversations on Wednesday to determine what levels of spill might be acceptable to still allow contractors to work. The spill levels were very low. Lorz suggested maybe not using the RSW the first week of spill to allow the concrete more cure time, if needed. This will remain an update until the work is completed.
- 4.1.4. LWG trap requested by T. Lorz. Lot of on-site work currently occurring. Related to the sewage system, there has been a lot of pounding work. About ten days ago LWG personnel noted a shift in concrete in a construction joint. The area was monitored and no further shift has been seen. Setter said since there hasn't been any further shift, NWW feels pretty comfortable with the construction and it will proceed as expected, however, LWG will go in and fill all of the construction joints. There will be an effort to water up early to double check the joints. Lorz noted he was uncomfortable with the way he received the information. He didn't receive any notice from NWW; he received it through a circuitous route. Setter said she was also in the dark about the issue. She said there was a breakdown in communication. NWW believes the NOAA researcher who operates the trap should have contacted NWW directly rather than raise alarm within the region. Lorz suggested the NOAA researcher acted in a manner that was reasonable. FPOM was in agreement that we have communication and transparency issues and need to improve in these areas.
- 4.1.5. LWG Unit 1 update. Crane work still on schedule?-request by T. Lorz. Setter said the crane schedule has slipped. There is no solid new schedule because of changes on a daily or weekly basis. The wrong parts were delivered, leading to the delay. This issue will be covered in a separate MOC. Setter said NWW expects the permanent ladder fix to be in place this year, as well as rental pumps on-site. This delay shouldn't cause any disruption that can't be handled operationally. Kiefer expressed concerns about the JFF channel mining and the concurrent Unit 1 work returning it to Kaplan. . Setter said the outage schedule may be in error. Bettin said the question is whether the two projects will conflict and he said he didn't think they would since one is inside the powerhouse and one isn't; they use different cranes.
- 4.1.6. LMN PLC Programming-request by T. Conder. Bailey reported the PLC's are expected to be in service by the time the adult ladders return to service. Spurgeon said it is the same person who programmed the PLCs at IHR. Everything looks good.
- 4.1.7. Snake River condition monitoring – request by T. Lorz. Lorz asked about the condition sampling in NWW. He said there has been no sign of an RFP yet and time is getting short. He also asked why NWW went Small Business with this contract and why we would have two groups in the traps, doing the same work. Setter said NWW tried to do a sole source but was unsuccessful. Contracting has the lead, Bailey is the COR. The RFP will go out this week and be out for two weeks. Setter

said there is a federal law that may allow continuity since the new contractor will need to offer jobs to the existing personnel. Lorz expressed concerns about overlap in space, adequate training, time for permits, etc. He stressed the importance of standardized reporting, which was a hard fought battle in FPOM in past years, and making sure dewatering at one dam equals dewatering at another dam. Setter turned the conversation over to Bailey. Bailey said this is the second time the work has gone out to open bid. The first time was in 2010 and PSMFC was the only bidder. He said NWW is working hard to make sure we have the services we need. He explained the monitoring program was split between BPA and NWW. BPA paid for FPC and the Smolt Monitoring Program (SMP), NWW paid for the condition monitoring as related to transport. That won't change, but if the contractor won't be able to work under the existing permit, then the contractor will need to get their own permit. Fredricks expressed concern about increasing the numbers of fish being examined and with handing fish from one person to another. He said he doesn't understand the need for two groups of people doing the same work and getting two permits concerns him. Bailey said the two groups will need to work in a collaborative manner and share resources. Fredricks said it may be that the new person just needs to look over the shoulder of whoever is gathering information and then report it up. Bailey said there will not be any change in past practices. Fredricks noted that he would like to see condition monitoring protocols included in FPP Appendix J so this can be included in contracts as well. Conder asked how soon guidance is needed. NWW will go forward with the contract based on the existing work plan. The guidance for minimum monitoring would take longer to develop. Setter said the contract would be awarded with one base year and four option years. Option years are not used unless there is successful performance. Mods to the contract may be made as new guidance is provided. Morrill noted that the SMP staff has not changed since 2008 and a new contractor could disrupt the current staffing by eliminating the ability to have year-round positions, as what is currently possible with the combining of the two programs. Bailey said the NWW funded contractor would only be required to collect the information needed by NWW. The contractor would likely collaborate with FPC staff but would not be required to enter information into the FPC databases. Any functions required through the SMP would need to be completed by FPC staff. Setter asked that everyone start with the same understanding that NWW intends to provide condition monitoring of similar quality as before. Bailey said NWW's obligation is to provide one person to collect information related to transport. Lorz said there are only three projects that transport so what happens at IHR and MCN. Bailey said the transport program no longer funds the person at MCN; MCN had to provide funding for that person on their own. Setter said the Project Bios play an important role in providing mentoring and guidance for whoever does the work.

FPOM will continue to have discussions regarding monitoring at the dams and how that ties in with Smolt Monitoring. Setter said the work statement hasn't changed since 2008. If there have been duties taken on since 2008 that have not been captured in the 2008 work statement, then we may have some issues. Filardo said FPC would not hold a permit for a contractor. Once the fish leaves the FPC staff's hands then those fish need to go on a contractor or researcher permit. Fredricks said he is trying to understand why there would be a need for another permit if data can be transferred instead of fish. Setter said the NWW monitor and the FPC monitor may not be working the same day but in the past they have worked together and exchanged information in the past. It is expected they will do that in the future. Fredricks said he does not want to see additional handling of fish. **FPOM would like to see the RFP so they can better understand what is being requested by the**

contractor. Filardo said SMP staff decreases under the new contract. FPC isn't sure how everything will work until the contractor is on-site. Setter said the hope is the new contractor will hire the existing personnel and they will continue to work seamlessly with FPC as before. **ACTION: Bailey will send the RFP to FPOM as soon as it is released.**

4.2. NWP Updates

- 4.2.1.** Upcoming maintenance/construction/research activities. Includes already coordinated MOCs.
 - 4.2.1.1.** 14BON82 T11 and T12 outages.
 - 4.2.1.2.** 14BON83 WS Fish View Building roof.
- 4.2.2.** BON Unit 11 update. The unit will be slow rolled later today. RTS is still March.
- 4.2.3.** BON Fish Unit trashrake. Expected 1 April.
- 4.2.4.** BON DSM2 Orifice Flushing. Project is continuing to work on the orifices.
- 4.2.5.** TDA north fishway rock wall repairs. PDT site visit on the 19th. PM assigned and funds are available. Lorz asked when the assessment will be completed. Cordie said there is no schedule yet.
- 4.2.6.** TDA spill bay 9 trunnion pin. Klatt reported there will likely be a PM assigned, though it could go Small Projects. The project is larger than originally anticipated. There need to be HSS inspections on the gate and an assessment of the bearings to make sure it is just the trunnion pin. Bettin asked if the pin is properly stored. Cordie said it is on-site and covered.
- 4.2.7.** TDA-E fishway log boom installation. Cordie said the log boom will be delayed until next winter season. The boom is on-site and ready to go next winter.
- 4.2.8.** JDA spill bay 15. Zyndol reported that there is a structural weakness in tainter gate 15. JDA will perform the repairs and should have everything completed by the start of spill season.

4.3. Research/FFDRWG updates. www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html

- 4.3.1.** JDA-S Weirs. Zyndol reported on the lower three unneeded weirs in the south ladder. HELCRABS recommended removal in 2004. This would mirror the north fishway weir removal. This will be addressed through the F&W budget or included in the Critical Infrastructure list.

4.4. RCC update.

Table 1. RCC flow forecast.

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)	Projected Peak
LWG	84	72	66	75 on 2/13
MCN	255	245	232	248 on 2/17
BON	267	255	249	260 on 2/18
IHR	88	73	66	75 on 2/13

- 4.4.1.** IHR is currently in an involuntary spill operation. U1 returns to service by Saturday and involuntary spill will end.
- 4.4.2.** Wertheimer noted that BON had involuntary spill yesterday. He said the B2CC should be the first facility opened during spill operations. **ACTION: Wright will work on a change form stating the B2CC will be opened first during involuntary spill.** Cordie asked if the same would apply for the ITS at TDA. Bettin asked about maintenance impacts. Hausmann and Cordie said any issues could be worked around. **FPOM agrees with both BON and TDA providing involuntary spill first through the surface passage routes before going to the spillway.**

- 4.5. Lamprey updates. Zorich said planning meetings were earlier this week at BON. Zorich said the tribes are going to try to bring someone in to operate the AFF lamprey traps for their translocation program. This is needed because there is no lamprey research in the CRFM budget this year.
- 4.6. Avian. **Avian Task Group meeting on 12 February, after FPOM.**
 - 4.6.1. Hazing/performance standards.
- 4.7. Critical Infrastructure. Schedule a meeting in August. NWP and NWW would be split. Setter said it is difficult to get Project Bios into a meeting right now. Fredricks said NOAA can't travel either and this isn't a good meeting for a conference call. We will need to meet face to face. Setter suggested getting more complete lists and meeting later in the summer or early fall. FPOM recognizes they cannot force change but they do want to be more effective in advocating for getting priority infrastructure funded to maintain reliability.
- 4.8. BPA updates. Over the next 12 days (2/17-29) there will be a large outage at BON that will result in more spill.

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

- 5.1. **14BON84** PH1 ITS end gate and WG1 repair. Fredricks said understanding the impacts of WG1 and WG2 being left until August is important. FPOM generally agreed August was a better timeframe since operating PH1 is undesirable. Bettin clarified that the request to spill, rather than operating PH1, did not include a request to spill above the gas cap. Hausmann said an ROV inspection would require the ITS and several units be OOS so it hasn't been done yet. **FPOM concurred with waiting until August.**
- 5.2. **15BON01** UI hydraulic analysis in BI serpentine weirs. **Pending until the MOC is re-written.**
- 5.3. **15TDA01 (MOC coming)** TDA-E 1400cfs test. **FPOM approved with a start time after noon.**
- 5.4. **15IHR001** Ice Harbor Turbine Intake Characterization Study – Trumbo. Conder expressed concerns about the fish passage with the units out. He provided a couple of other options to improve fish passage during the Unit 1 outage. One stop spill may not be an option while the contractor is still in the spillway. Trumbo said alternatives are still being explored. He should be able to get back to FPOM with some options by next week. **Pending.**
- 5.5. **15IHR002** – Ice Harbor Appendix A Doble Testing. Fone said the date has changed to 20-24 July. U5 would be out from 5-30 July. **FPOM concurred with this MOC.**
- 5.6. **15IHR003** Unit 5 head gate cylinder replacement. **FPOM concurred with this MOC.**
- 5.7. **15LWG001** – S. Fielding. Completion date of 25 March for U2. Hevlin asked was the consequences would be if U2 isn't completed by 25 March. Fielding said the contractor will not be given U2 until U3 is completely operational. U1 will be fixed blade but available for fish passage. **FPOM concurred with this MOC.**
- 5.8. **LMN U1 (MOC coming).** Unit 1 is OOS. The return of U1 is questionable. U2 is available.

6. Fish Counts.

- 6.1. Necessity of differentiating clipped versus unclipped jacks. Wertheimer asked FPOM how this information is being used and is it needed. Lorz said this is a TAC question. Wertheimer pointed out that gathering this information is not really feasible. Fredricks suggested this should be sent directly to TAC by Wertheimer. **ACTION: Wertheimer will send an email to TAC and get this sorted out where it belongs.**
- 6.2. Winter counting schedule. Benner talked to the FPC memo to FPAC. Setter suggested this discussion fits in better when Moody brings the fish count contract to FPOM for further discussion. FPOM input on the contract, and what is needed, would be helpful. Setter did caution that there is delicate balancing between winter maintenance and the count contract.

FPOM was reminded that we have winter counts rolling between TDA – LGS so there are counts available that are relatively recent. BON and LWG are counted in the winter every year. NWW and NWP do not intend to end the rolling winter counts. 2015 does not have any other counts other than BON and LWG. **FPOM and FPAC request that the rolling winter counts continue. NWW and NWP are in agreement.**

7. **TDA ITS winter operation.** Cordie and Fredricks explained that the idea was to open TDA ITS a couple of weeks early to allow 15 Mile Creek and Mill Creek steelhead a downstream passage route. Fredricks asked for more information as to what sort of plan has been discussed. Cordie said the initial thought was one gate. Fredricks suggested getting a proposal on the table. Mackey explained that there had been a coordination form put together but it got held up in NWD. NWP had a call with NWD and the recommendation was to put together a full argument with the data and rationale. **FFU is currently working on that document. If the paper is ready, this will be brought forward to FPOM for the March meeting. Fredricks said the paper needs to include hydraulic recommendations and assessment of what the channel looks like with just one gate open.**
8. **MCN Draft Debris Management plan.** Gersbach provided comments on the management plan. Fredricks said he thought section 2B, C, and D were a problem. He has several comments. He said this is a good first draft and he appreciated the effort put into it. He will send his comments to Setter. He would like to see schedules for long-term fixes. Bettin asked if the TSWs could be used to move debris. Setter said it takes a day to install the TSWs if they are not currently in operation. Fredricks and Lorz discussed ways to use the spillway to move debris. Benner provided specific comments on sections. FPOM would like individual species cited by year. Fredricks urged NWW to complete purchase of the boat as soon as possible, to help deal with the sockeye descaling. **ACTION: FPOM will write up comments and send them to Setter.**
9. **Fish Passage Plan:** The 2015 FPP draft sections and change forms are online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2015/index.html>. New change forms have been added since the last FPOM meeting.
 - 9.1. Change forms - 2015 (pending further review):
 - 9.1.1. **15BON002 – Turbine Start Up Operation. *Approved with the explanation included in the main body of the FPP. STATUS 29-Jan-2015:*** Hausmann provided more details: “...of that hour, less than 20 minutes are outside the 1% band. There is no "speed-no-load" component to this testing. The units are always loaded.”
 - 9.1.2. **15BON003 – Table BON-7 DSM Orifice Control. *Approved with the recommendation that the table be replaced with a paragraph describing how the system was designed to operate. STATUS 30-Jan-2015:*** Hausmann added language to the change form as requested.
 - 9.1.3. **15BON006 – PH2 Mid-Point Operation Dates. *Pending. ACTION ITEM:*** Lorz said he would ask Chockley to take a look at any data that may be available and see how often units ran in the upper end of 1% and if there is a difference in descaling. **STATUS 30-Jan-2015:** Wright provided FPC (Benner) with 5-minute outflow data for Units 1-18 in years 2006-2012. **STATUS 4-Feb-2015:** Bettin revised the change form to add the lower 1% range during the period April 1-July 31. **STATUS: Feb** **FPOM:** Bettin said he would like to get the whole range. Lorz said Chockley hasn't looked at if there is upper 1% data available. Chockley hasn't started looking at data yet but should have an analysis by the March FPOM. Fredricks said he has concerns about the lower end 1% conditions in the turbine/draft tube. Many decisions are waiting on PNNL's final report. Fredricks said the ERDC work will be summarized in a report, but the report won't be available until the summer. Bettin suggested the summer is a bit late. Fredricks and Lorz expressed a desire to wait until the reports

are available the data can be considered when making a decision. Fredricks said he will not stand in the way of the lower end for the summer but he does not want to see any changes for the spring.

- 9.1.4. **15TDA001 – Table TDA-4 Unit Priority. *Approved as long as there are not transformer issues. STATUS 4-Feb-2015:*** Cordie created a table of ITS operations (see new change form **15TDA004**). No transformer issues.
- 9.1.5. **15TDA003 – Fish Lock. *Approved, pending more info on fish lock hydraulics. ACTION ITEM:*** Cordie will provide FPOM with the requested info. **STATUS:** *Cordie hasn't found the additional information yet. Approved.*
- 9.2. New FPP change forms (since last FPOM meeting):
 - 9.2.1. **15OVE001 – FPOM Coordination. *Generally approved unless FPOM provides Wright with more comments.***
 - 9.2.2. **15TDA004 – New Table of ITS Operations. *Approved.***
 - 9.2.3. **15AppB00315 App B 003 – Notification Criteria. *Approved.***
 - 9.2.4. **15AppB00415 App B 004 – Collection Facility Operations. *Pending adding minimum collection numbers, which would be consistent with the Columnaris number.***
- 9.3. Potential FPP change forms.
 - 9.3.1. BON split flows. Additional trigger to operate more units at PH1.
 - 9.3.2. Appendix B – Transport. Revise truck transport minimums if supported by data analysis to determine likely effects, including frequency and duration. Wagner will request NOAA Montlake to look at the data.
 - 9.3.3. Appendix C – Load Shaping Guidelines. Needs to be updated and reconciled with project-specific sections of the FPP.
 - 9.3.4. Appendix J – Smolt Monitoring Protocols. Should include protocols for smolt condition monitoring at all projects. Fredricks said he would like to see an evaluation of the condition data collected to determine if we are doing the minimum monitoring effort to satisfy the requirements of the BiOp. Fredricks said this would be a new Task Group with Lorz as the chair. This group should include FPAC, FPC, and FPOM. The goal would be to provide recommendations as to the minimum monitoring effort. It may not be daily, but could be every other day, once a week, etc. This would be separate from the SMP sampling, which includes sampling for indexing.

10. Task Group Updates. Klatte said there are no updates for this section this month.

- 10.1. AFF mods (BON Fisheries). Team members include: Benner, Fredricks, Lorz, Mackey, Meyer, Rerecich, Royer, and Whiteaker.
- 10.2. Avian Hazing (Zorich). Team members include: Conder, Fredricks, Lorz, Mackey, Setter, Wertheimer. **Meeting on 12 February to discuss hazing effectiveness evaluation.**
- 10.3. BON Ops. (Lorz) Team members include: Benner, Bettin, Fredricks, Hausmann, Lut, Mackey, Meyer, Rerecich, Skalicky, Wertheimer. Met after January FPOM. Change form still pending review and approval.
- 10.4. Noise impacts task group. (Setter and Conder). Team members include: Conder, Cordie, Fredricks, Hevlin, Lorz, Mackey, Setter, and others as needed. **Change forms approved.**
- 10.5. Pinniped Task Group. (van der Leeuw). Presented at the January FPOM meeting.
- 10.6. TDA split flows. (Cordie) Team members include: Bettin, Cordie, Fredricks, Klatte, Lorz, Mackey, Rerecich. Two new docs posted to the task group folder (**150212 TDA Adult east vs. north thru sept 10** and **150212 EAST ladder observations**).