

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 11 February, 2016 FPOM meeting.

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

<b>Last</b>	<b>First</b>	<b>Agency</b>	<b>Email</b>
Bailey	John	NWW	<a href="mailto:John.C.Bailey@usace.army.mil">John.C.Bailey@usace.army.mil</a>
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Brenner	Dave	FPC	
Conder	Trevor	NOAA	<a href="mailto:trevor.conder@noaa.gov">trevor.conder@noaa.gov</a>
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Mensik	Rosanna	BlueLeaf	
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Bailey, Ballinger, Hausmann, Johnson, Kiefer, McCann, Martinson, Mensik, Meyer, Moody, Pinney, Shane, and Trachtenberg called in.

**February birthdays include: Love  
HAPPY BIRTHDAY!**

Documents may be found at: <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

## 1. Decisions made at this meeting

- 1.1. January meeting minutes pending Lorz lengthy review.
- 1.2. Coordination/Notification forms (need concurrence/discussion)
  - 1.2.1. **16BON02** MOC Bradford Island crowder mods for lamprey\_updated. **Approved.**
  - 1.2.2. **16BON03** MOC Blown AWS grating at PH2CC diffuser C4\_updated. **FPOM agrees to leave C4 as-is and closed until next winter maintenance.**
  - 1.2.3. **16BON05** MOC Spillway ROV. **Approved.**
  - 1.2.4. **16BON06** MOC B2CC opening date. **Retracted.**
  - 1.2.5. **13 LWG 17** Juvenile Fish Collection Channel Upgrade – Update 08Feb2016. **Approved.**
  - 1.2.6. **15 LWG 025** LWG Lower JBS Primary Outfall Construction – Revised 08Feb2016. **Approved.**
  - 1.2.7. **16 LWG 02** Lower Granite Dam Adult Ladder Return to Service Date. **Approved.**
- 1.3. FPP change forms (see details in section 5 below)
  - 1.3.1. **16LGS003** – TSW Close Criteria. **Not approved. This will move to COP.**
  - 1.3.2. **16AppA001** – Doble Test Schedule. **Approved.**
  - 1.3.3. **16AppB001** – LMN and LGS Pre-Transport Condition Sampling. **This will be discussed at FPAC and brought back to FPOM.**
- 1.4. TDA under-roadway and count station lighting. **Cordie will leave the under-road lights out.**

## 2. Action Items

- 2.1. NWW Action Items
  - 2.1.1. [Feb 16] LWG diversion gate update. **ACTION:** Pinney will resend the hydraulic evaluation of the PIT-tag antenna installation. NWW will provide an update next FPOM and try to have some alternatives for operation.
  - 2.1.2. [Feb 16] MCN ladder permanent closure. **ACTION:** Trachtenbarg will send out an MOC.
  - 2.1.3. [Feb 16] LGR using JDA screens. **ACTION:** Morrill will write something up for distribution. The study will currently move forward as planned.
  - 2.1.4. [Jan 16] MCN FOGS. **STATUS: Completed.** Setter said one caveat is that MCN may come back next year to request completing the final six FOGs.
  - 2.1.5. [Jan 16] DWR degassers. **STATUS: Completed. Topic will get moved to TMT.** Baus said USACE committed to have some models run for the May TMT process meeting. Updates will be provided to FPOM.
- 2.2. NWP Action Items.
  - 2.2.1. [Feb 16] Unit priority for PH1 when the main unit breaker is OOS. **ACTION:** Fredricks will pick a time and send out a notification.
  - 2.2.2. [Feb 16] BON Weir 68 Bleed-off. **ACTION:** Hausmann will insert cautionary language in the BON dewatering plans with a note to conduct a test in the future.
  - 2.2.3. [Feb 16] BON BI count station lamprey mods. **ACTION:** Hausmann will send out photos when the mods are completed.
  - 2.2.4. [Feb 16] JDA-S AWS pump #1. **ACTION:** Zyndol will send Bettin an email stating funding need. Zyndol will update FPOM on status of JDA-S AWS turbine pump #1.
  - 2.2.5. [Feb 16] NWP Oil spill plans. **ACTION:** FPOM will review for next FPOM.
  - 2.2.6. [Feb 16] BON FOG rehab. **ACTION:** Rerecich will look into previous studies investigating biological FOG use and send that to Fredricks.

- 2.2.7. [Feb 16] 16BON03 MOC Blown AWS grating at PH2CC diffuser C4\_updated. **ACTION:** Hausmann will update the MOC to address hydraulic impact, size of the chamber, and concerns of flow in the diffuser when it's closed.
- 2.2.8. [Jan 16] Unit priority for PH1 when the main unit breaker is OOS. Hausmann will set up a visit for FPOM to observe PH1 operations in early March. **ACTION:** Fredricks will pick a time and send out a notification.
- 2.2.9. [Jan 16] BON CI subsidence. **STATUS: Completed.**
- 2.2.10. [Jan 16] BON Weir 68 Bleed-off. Lorz asked if the use of this valve would negate forebay requirements. Hausmann said it depends on ladder velocities. Lorz said they may want a reference to that in the dewatering plans, Hausmann said they may want to leave the language vague. Fredricks said they could run a test the next time the UMT is out and develop an operating table with valve openings and forebay levels. **ACTION:** Hausmann will insert cautionary language in the BON dewatering plans with a note to conduct a test in the future.
- 2.2.11. [Jan 16] BON BI count station lamprey mods. **STATUS: Mods are almost completed. Hausmann will send out photos when completed.** Bettin asked about putting the hatches on the WA NDE LFS. Hausmann said he wasn't sure when they were wanting to do it. Bettin said if they did it during the T12 outage then the entire powerhouse would be OOS. Hausmann said Schlenker had figured out a pattern for the divers to work in the PH2 tailrace.

### 3. Updates

#### 3.1. NWW Updates.

- 3.1.1. Upcoming maintenance/construction/research activities. FPOM OUTAGES schedule available on the web site.
  - 3.1.1.1. No changes this month. Setter said the bridge crane at LGR is being worked on, Unit 1 will start after that. Bettin asked if the roof repairs could go on the color chart. Setter said Bettin brought to her attention that there's a plan to do a roof repair in 2018 at LGS. They'll be coming back to do coordination for that in the future.
- 3.1.2. Wasco PUD at MCN. (Martinson) Martinson put together a simplistic version that hasn't been reviewed by Gittiger or Johnson. Setter said they'd like a more flushed-out version, they aren't in a rush for info. **STATUS: Martinson will provide FPOM updates as they occur.**
- 3.1.3. LWG diversion gate update. (Holdren, Pinney) Setter said Moody set up a meeting for the users of the gate for next week. They'll have more ideas for operational changes after that. Long-term Holdren put in a scoping request for a design, that wouldn't be implemented this season. Condor asked if the mechanism that moves the gate is also in good operating order, Pinney said yes. Lorz suggested adding this to the site visit to LWG. Trachtenbarg said that would be included. Lorz asked about the PIT-tag reader for adults, it looks like they raised the weir height 2" and if they had any hydraulic information. Pinney said they talked about it in FFDRWG, the effect was very minute. **ACTION: Pinney will resend the hydraulic evaluation of the PIT-tag antenna installation.** Kiefer said the noise study was approved in SRWG and the vision was that because there's a lot of sampling (~15% of fish) 80% of the fish would be going through when they're not sampling which could be used to evaluate if sound vibration has a significant impact on passage. It sounds like now that would change, according to what was sent out the only unimpeded passage is when the water is too warm to work and we shut off the loop that goes through the sort by code (SbyC) detectors. They've been operating with that loop for years, they should want to evaluate if sound effects fish with that configuration. Condor said

they aren't concerned with making the study work, they're concerned with volitional passage and would like to improve it so fish can choose to move up or down the ladder when they're not trapping fish. Data indicate that once fish go up the false weir, 90% of the fish can no longer go back down the ladder and are stuck in a warm ladder. Kiefer said a lot of work will be wrapped up this winter to improve the temp conditions, also they do a lot of SbyC work, collection of a few specific adults, and that can't be completed without those fish moving through the SbyC detectors. He's concerned they'll be making research more difficult. He doesn't see evidence that there's a significant problem with the temp improvements and he doesn't want the fish to move back down the ladder. Lorz said BON have a lot of restrictions at the AFF due to fish health concerns, the situation at LWG is much worse condition because the fish can't move out. Let's look at the studies that will be affected and see if it's worth a change, over 90% of the steelhead had to go through this sample gate. Setter said why don't they wait until after their meeting next week and they'll try to develop some alternatives to bring back. Kiefer said that after they spent all the money on temp modification this is the first he's heard the SbyC detectors are now a concern. Setter said there's an opportunity long-term for some remedies. Hevlin said they were trying to determine the effect of vibration, the purpose of the PIT detectors in the ladder was to answer that. What he's heard is that passing fish through the loop outweighs the impact of the drilling on these fish. If fish can't get back up and down the ladder then they can't really isolate the effect of noise on fish. Kiefer said they would be able to tell. Fredricks said the implications of the noise study are greater than LWG. Setter said the study is important to the Corps to establish the validity of assumptions that noise impacts the behavior of fish. She wasn't sure if there was another place in the ladder they could do this study, at this point most construction of the JBS is above-ground. Kiefer said he approved the study to use PIT-tagged fish in an existing system while noise was going on to see if it impacted their passage, not to figure out how to change the ladder so they could test a new condition at LWG, it was the existing condition. Now because he approved a study they're going to be spending money and time. Lorz said in FFDRWG the researchers themselves came forward and said because of the time the fish were taking in the sample loop they weren't comfortable with the results. They're trying to make the study better to get a true evaluation. **ACTION: NWW will provide an update next FPOM and try to have some alternatives for operation.**

**3.1.4.** LGS temperature monitoring. (Pinney)

**3.1.4.1.** Setter said Pinney doesn't have a study plan to do anything different than this year, he doesn't have the funding. They'll have the scroll case temps. They have HOBOS to put at the ladder exit and entrances. They believe they have enough HOBOS to put in place by June. Lorz asked where the data would be, SMP might be a possibility. Setter said they don't download the HOBOS unless it's an emergency at this point. After last year they did gather historic data into an Excel file, but there are a lot of caveats. It's been a haphazard program in the past, they're working towards consistency across projects. Cordie asked about the NWP projects, they just do count stations right now. Fredricks said that will be coming out of the report anyway.

**3.1.4.2.** Setter said Ivy's come up against some issues with the LGS cooling water pumps. They'd pushed off using diesel or hydraulic pumps due to oil spill concerns. They looked into a centrifugal pump, they were planning to rent one but found out they could only purchase one and it took a 3-4 month lead time to manufacture. Additionally, they're

working through if there's adequate power to support the centrifugal pump. At this point they're on hold. For FY16 they don't have anything that's going to work by just going with the electric pumps. van Dyke asked about getting a pump from surplus, Setter said she'll make the inquiry but in the past they've been told they couldn't go to surplus due to reliability concerns. Lorz asked about getting reliable power over there, Setter said that's a long-term investigation.

- 3.1.5.** Log bronc at MCN. (Setter) Setter said CRFM did fund some parts. They expect the parts to arrive on 1 March, the staff is ready to work on them. Hopefully a few weeks after that everything would be functional, in time for spill season. Morrill asked if the Z-drive was a new manufactured part, Setter said yes.
- 3.1.6.** MCN ladder permanent closure. Pinney said that Nov-Dec of 2016 they'd like to get an early outage of the WA shore outage, which hasn't been dewatered for ~10 years because they needed bulkheads. They've gotten bulkheads now in the past few weeks and so they can dewater. They've had stoplogs in the #4 entrances on the spill side of MCN both in the WA ladder and the north powerhouse entrance pool on the OR ladder. They'd like to permanently enclose those in concrete, which requires being dewatered for 60 days. They can't isolate the OR pool and so they're requesting a 60 day outage for each ladder, starting with WA first. Setter said they don't need to have a lot of discussion now, folks can review the MOC. They needed to start with WA due to the juvenile system operating until Dec 15 because the excess water from the juvenile channel comes in at a location there. Pinney said one ladder would be up the whole time. The OR side would come out at the regularly scheduled time of Jan. Fredricks said he'd like to review it with the JBS outage MOC. Pinney said the lamprey work would likely be shifted to occur during the outage. **ACTION: Trachtenbarg will update the MOC and get it out.**
- 3.1.7.** JDA screens at LGR. Morrill said he talked with Holdren about gatewell dipping in the A slot. He suggested a way to do the study without handling fish is go ahead with the installation and just look at descaling at the fish facility. If there's no change in descaling using the A slot versus other slots, you can tell if there's a negative impact. Condor said that would only work if you're using one unit, Morrill said it'd be relative to background. Condor said it'd be difficult to pick out differences. Morrill said there's more homework to do on how to set it up. Lorz said it'll be flow-related, there'll be a really small window to do that, Morrill said that as long as you're consistent there's not an issue. If you can just switch between units 2 and 3, the others will be background. Lorz said there'd have to be really bad impacts to detect them. Setter said they could do the gatewell dipping for a week and get the data out after a day or two. Bettin asked if you could put in all three JDA screens in three A slots. Setter said the question is what would you compare it to, if you have a bad year then you wouldn't be able say what caused bad fish condition. Setter said she's they want an answer this year, she's concerned if they do a big-picture study and don't get an answer, they'll have a delay. **ACTION: Morrill will write something up for distribution. The study will currently move forward as planned.**

### 3.2. NWP Updates

- 3.2.1.** Upcoming maintenance/construction/research activities. Includes already coordinated MOCs.
- 3.2.1.1.** 15BON87 PH1 main unit breaker replacement. ***Retracted. Schedule will be posted to the website.***
- 3.2.1.2.** BON winter maintenance update. (Hausmann) FV4-3 is repaired, FV1-1 repaired, WG-1 is back in and operational. 4N entrance gate motor is

reinstalled. A-branch diffuser gates repaired. They're wrapping things up. Fredricks requested they remove all blackberries from the ladder.

- 3.2.1.3.** TDA winter maintenance update. (Cordie) N ladder was dewatered only for an hour, the lower section looks good via ROV. The count station diffuser valve drive was replaced. Misc count station lighting mods were done for video testing. At the exit trash rack they removed a vein for sturgeon passage. E ladder they removed a HD-PIT antenna, addressed vibration issues. The remaining entrance weirs are getting plastic wheels. Lifting beams will be recessed in the guides. E exit control panel is being replaced, TDA will connect it when funding comes through, during winter maintenance.
- 3.2.1.4.** JDA winter maintenance update. (Zyndol) N ladder winter maintenance completed in Dec. AWS pumps are improved, they have 5 pumps. JBS maintenance is ongoing with no issues. S ladder – turbine #1 has a bad pump bearing. It's being assessed, the equipment is obsolete and replacement has been awaiting funding. Maintenance crews are working on it, procuring a new bearing may take a while but they may be able to come up with a different solution. Pump #3 was replaced, but pump #2 is just as old as #1. **ACTION: Zyndol will send Bettin an email stating funding need. Zyndol will update FPOM on status of JDA-S AWS turbine pump #1.**
- 3.2.2.** NWP Project oil spill plans – FPOM website under Jan 2016. **ACTION: FPOM will review for next FPOM.**
- 3.2.3.** BON CI subsidence. (Hausmann) No update. Morrill expressed concerns about the PIT tag room. He'll talk with PSMFC.
- 3.2.4.** BON FOG rehab. (Hausmann) One of the 12 is always out for rehab. Temporary sea lion deterrents have been installed on the top of the FOGs, the middle two FOG slots have been bulkheaded. Hausmann said they haven't been keeping track of which FOGs have been rehabbed, Fredricks said he doesn't care. Fredricks would like to see an investigation of biological FOG use, with looking at permanently closing the middle two FOG slots. Hausmann said if they do close the middle FOG slots, Schlenker did recommend changing the use of the PH2CC diffusers. **ACTION: Rerecich will look into previous studies investigating biological FOG use and send that to Fredricks.**
- 3.2.5.** TDA trunion pin 9. Cordie said there hasn't been any work done unless the PDT becomes fully funded. Mackey said that it's no longer in her office but at the project. It hasn't fallen off the radar.
- 3.2.6.** TDA under-roadway and count station lighting. (Cordie) Cordie said some lights burnt out under the road deck, at that spot in the fishway a lot of fish passage is over the top of the weirs versus under the orifices lower in the ladder. Fredricks said the idea is to keep the ladder lit the same the whole length. van Dyke asked if there was any data suggesting passage delay, Cordie said no. Meyer said the issue was an abrupt light transition and that's what triggers jumping. **STATUS: Cordie will leave the under-road lights out.**
- 3.2.7.** JDA-S void assessment. (Zyndol) Zyndol said the location is in the 90-deg corner. This area is a remnant of the 1964 construction, there was a fish bypass with the coffer dam and now the concrete patch/filling is dissolving and there's a void. They covered it with plating and it's being investigated, it's in engineering but they are understaffed. If this continues unabated the wall of the fishway could collapse. He hopes the plating area will be fixed next winter. Also, on the parking lot side of the fishway, the lot is sinking, he estimates ~6". The parking lot sinking may also impact

the columns supporting the JBS. **STATUS: Zyndol will provide FPOM with updates when they occur.**

**3.3. Research/FFDRWG updates.** [www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html)

**3.3.1.** The next FFDRWG will be scheduled for some time in March. Rerecich will send out a Doodle poll.

**3.4. 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	22	44	58	63 (2/18)
MCN	148	133	202	202 (2/20)
BON	149	156	225	225 (2/20)

**3.5. Pinniped Update.** Zorich said sea lions (SLs) have been jumping over the BON FOGs into the PH2CC. BON has installed temporary plywood barriers on top of the FOGs. A sea lion was captured in the BON forebay and released in Astoria, one more is at The Dalles marina. Bettin asked when the next take permit will be written, if there a way to instantly include any animals above BON, Condor said they're working on it. Zorich said there's an average of 7 SLs in the tailrace. From 4 Jan – 8 Feb 85 STH predated (confidence interval of 51-119) with only 374 STH passing during that time (18.5% of population). Only 3 sturgeon predated thus far. Condor asked how much the plywood dropped the FOGs, Hausmann said hardly at all. He doesn't believe the SLs displaced them that much when they went over. Fredricks asked if they've looked into permanent metal structures, Hausmann said yes. It'll be another step for operations when they're doing work on the FOGs. Bettin asked if he knew about the cost, Hausmann said no, not until they know a design.

**3.6. Lamprey updates.** BON passage estimate has been revised and will be out tomorrow. They've had negative numbers this past season. The good news is that they passed a lot of fish this past year. ~1/4 of passed lamprey used the LPSs this past year. They're planning on orifice cutting at WA shore ladder in 2017.

**3.7. Avian.**

**3.7.1.** TDA avian lines. (Cordie) They're fabricating a new pole, they'll install it in the same location. They looked at the spillway one on the island, that one looks good. They saved 20 of the 26 lines. They're looking at using some of the failed JDA lines at TDA.

**3.7.2.** JDA avian lines. (Zyndol) 12 lines are missing and they need money for replacement. The current estimate is \$200k to replace them. Most of the missing lines attach to the Nav Lock wall. Zyndol said the birds don't seem to take advantage of the missing lines. Lorz asked about long-term maintenance. Mackey said CRFM has agreed to take this item back. This will go on the FFDRWG agenda.

**3.8. BPA updates.** Nothing to report.

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

**4.1. 16BON02 MOC Bradford Island crowder mods for lamprey\_updated. Approved.**

**4.2. 16BON03 MOC Blown AWS grating at PH2CC diffuser C4\_updated.** Hausmann said ideally the project would like to wait. Lorz asked what hydraulic impact that would have, Hausmann said Schlenker said it would be minimal. To totally negate any effect you could install a FOG bulkhead, which has already been done [due to the sea lion issue]. Lorz asked why it happened, Hausmann said it wasn't a debris issue but the condition of the grating. They could spend \$35k to fix this one grating or wait until the winter and fix them all. Lorz asked how

big the diffuser chamber is, he's concerned for lamprey. Hausmann said lamprey can get in with the grating in place. The chamber is ~10 ft down with two chambers out to the side mostly filled with sand. He said normally when there's debris loading you'll see debris jammed in the grating, during the ROV survey they were clean. Lorz suggested leaving the diffuser off but setting the grating back on to close it off. Fredricks said he doesn't have an issue leaving it if they can guarantee no flow through that diffuser and that the chamber isn't big enough to trap fish. **STATUS: Hausmann will update the MOC to address hydraulic impact, size of the chamber, and concerns of flow in the diffuser when it's closed. FPOM agrees to leave C4 as-is and closed until next winter maintenance.**

- 4.3. 16BON04** MFR Fish unit floating times for December 2015. Lorz said if the amount of trash raking continues past December, that this should maybe go back to CRFM. Hausmann said the trash rake works great, it's a matter of having crews working 24/7. Lorz said he doesn't know where or how it'll get solved, but it can't continue. Hausmann said it is an anomaly, Lorz said we'll see what January brings. Fredricks said we need something that works in the face of climate change. Mackey said the technology hasn't caught up to the current need. There's not an automated rake that goes deep enough.
- 4.4. 16BON05** MOC Spillway ROV. Mackey asked if they have the survey from MacDonald, Hausmann said yes. Rerecich asked if it was a visual inspection or SONAR, Hausmann said the Dive Office has both. **Approved.**
- 4.5. 16BON06** MOC B2CC opening date. Bettin said long-term they'd like to scale back monitoring. Filardo said there were conversations and the contract will move forward as written, for 24 hr a day this year. Lorz said that until there's a change in BON being an index site they need to do 24 hrs a day. Filardo said BPA is open to bring information to FPAC. Mackey said this issue had been under discussion several months ago but BPA hadn't brought everybody on board yet. Fredricks said anything you want to change has to start ahead of time and include all the agencies. Bettin asked what the correct forum is to discuss this issue. Fredricks said FPAC. Fredricks said the BiOp requires monitoring at the index sites, and indexing requires 24-hr monitoring. **STATUS: Retracted.**
- 4.6. 13 LWG 17** Juvenile Fish Collection Channel Upgrade – Update 08Feb2016. **Approved.**
- 4.7. 15 LWG 025** LWG Lower JBS Primary Outfall Construction – Revised 08Feb2016. Lorz suggesting looking at spill patterns when he and other travel upriver. Bettin said he's OK with it for now. **Approved.**
- 4.8. 16 LWG 02** Lower Granite Dam Adult Ladder Return to Service Date. Trachtenbarg said on the phase 1e contract, the roller bar supports has just been delivered and are being painted today, there was a delay in delivery from the manufacturer. The project would re-water the 22<sup>nd</sup> or 23<sup>rd</sup> as opposed to the 18<sup>th</sup>. Kiefer asked on the JBS, the FPP says that starts on 25 March. Setter said they start putting screens down in the middle of the last week. Trachtenbarg said they're planning to water up on the 21<sup>st</sup> and put screens in, so they'll likely be detecting fish before the 25<sup>th</sup>. **Approved.**

**5. Fish Passage Plan:** The Draft 2016 FPP and Change Forms are online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/>.

**5.1.** Pending FPP Change Forms.

- 5.1.1.** 16LGS003 – TSW Close Criteria. Kiefer said this is based upon not meeting requirements for summer migrants at LGS. There's an issue with this at low flow across the basin. He questions whether this will solve the problem, there's no planned evaluation of the change. Setter said this stemmed from ERDC modeling, they brought in Mulligan from LGS, it's a hydraulic evaluation, there's no fish data. Condor said it's also based upon the performance testing results. Kiefer asked how we got into a bulk spill pattern, now you're going to change one mortality problem for another. He wants to see a study showing fish survival at flows below 50 kcfs, he

could support a study looking at the current and this proposed pattern. He does not support this change form. Condor asked where they discuss those issues then. Setter said the rule of thumb is that 1 stop opening is about 1.7 kcfs. Condor said there is a chance that you don't make the standard at this level. They'll evaluate it during the next performance test. Bettin said they already took a risk going with what appears to be too low. Setter said the hydraulic engineer feels strongly that this is the right way to go for project survival, added with strong support from Hevlin. She said 50 might be a better risk for adult passage. Baus said the intent of this meeting wasn't to rehash the form, so the question is where to go from here. Kiefer doesn't want to make this change without evaluating it, he doesn't want to wait until the performance testing. Lorz said this is a COP discussion. **Not approved.**

- 5.1.2. 16AppA001 – Doble Test Schedule. Draft distributed Feb 8. **Approved.**
- 5.2. New FPP Change Forms.

- 5.2.1. 16AppB002 – LMN-LGS Condition Sampling. Condor said this is to establish a minimum. Lorz asked what the current sampling is. Setter said at LGS in the past it's been every 5 days. LMO was twice a week. Filardo said in 2015 the recommendation by FPAC was every-other day sampling at LGS. Setter said that was only for 2015, they're trying to determine what the minimum is at these projects. She said there's some staffing issues to bring technicians on. They don't have an issue with the language. She asked if the ground rules are still the same, Condor said yes. Lorz asked if NWW would do things differently then from last year, Setter said what they implemented last year at the project level wasn't supported. van Dyke asked if this is being viewed as a minimum or maximum, Setter said in order to meet all the mandates, you essentially don't do more than you have to. If more needs to be done then determining who funds it might be a question. van Dyke said this form is intended to be flexible and it's not viewed by all that way, Setter said that this is providing a legal standard. Setter clarified that if there's a problem then the project would likely conduct further sampling to identify the problem. Kiefer said they need to bring it to FPAC and discuss it there first. **STATUS: This will be discussed at FPAC and be discussed next FPOM.**

- 5.3. Potential FPP change forms.

- 5.3.1. Digital governor testing.

## 6. Task Group Updates.

- 6.1. New Task Groups.

- 6.1.1. BON minimum spill to maintain good B2CC egress. (Fredricks and Lorz). Team members include: Bettin, Ebner, Hausmann, Mackey, Rerecich, Wright. Report from Laurie, waiting for ERDC information

- 6.1.1.1. They will meet after the March FPOM.

- 6.2. Active Task Groups.

- 6.2.1. TDA adult flows. (Cordie) Team members include: Bettin, Cordie, Fredricks, Lorz, Mackey, Rerecich, Skalicky, Wertheimer. <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20TDA%20split%20flows/>

- 6.2.1.1. FPP change form submitted for FPOM concurrence.

- 6.3. Groups that have been moved to inactive status:

- 6.3.1.** Adult counting. (Wertheimer/Zorich and Moody) <http://www.nwd-we.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Fish%20Counting/>
- 6.3.2.** Condition monitoring. (Lorz, Conder). Team members include: Benner, Bettin, Chockley, Fredricks, Mackey, Morrill, Setter. <http://www.nwd-we.usace.army.mil/tmt/documents/FPOM/2010/Task%20Groups/Task%20Group%20Condition%20Monitoring/>
- 6.3.2.1.** This is going to FPAC and will come back as a change form.