CENWP-OD 28 January 2016

MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 28 January 2016 FPP change form meeting. The meeting was held at the USACE Division offices, 1201 NE Lloyd Blvd, Portland OR. In attendance:

|  |  |  |  |
| --- | --- | --- | --- |
| **Last** | **First** | **Agency** | **Email** |
| Bailey | John | NWW | [John.C.Bailey@usace.army.mil](mailto:John.C.Bailey@usace.army.mil) |
| Baus | Doug | NWD-RCC | [Douglas.m.baus@usace.army.mil](mailto:Douglas.m.baus@usace.army.mil) |
| Benner | Dave | FPC | [dbenner@fpc.org](mailto:dbenner@fpc.org) |
| Bettin | Scott | BPA | [swbettin@bpa.gov](mailto:swbettin@bpa.gov) |
| Conder | Trevor | NOAA | [Trevor.conder@noaa.gov](mailto:Trevor.conder@noaa.gov) |
| Cordie | Bob | NWP-TDA | [Robert.p.cordie@usace.army.mil](mailto:Robert.p.cordie@usace.army.mil) |
| Fone | Ken | NWW-IHR | [Kenneth.R.Fone@usace.army.mil](mailto:Kenneth.R.Fone@usace.army.mil) |
| Filardo | Margaret | FPC | [mfilardo@fpc.org](mailto:mfilardo@fpc.org) |
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| Petersen | Christine | BPA | [chpetersen@bpa.gov](mailto:chpetersen@bpa.gov) |
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| Royer | Ida | NWP-BON | [Ida.M.Royer@usace.army.mil](mailto:Ida.M.Royer@usace.army.mil) |
| Setter | Ann | NWW | [Ann.L.Setter@usace.army.mil](mailto:Ann.L.Setter@usace.army.mil) |
| van Dyke | Erick | ODFW | Erick.s.vandyke@state.or.us |
| Wright | Lisa | NWD-RCC | [Lisa.s.wright@usace.army.mil](mailto:Lisa.s.wright@usace.army.mil) |
| Zorich | Nathan | NWP-FFU | [Nathan.a.zorich@usace.army.mil](mailto:Nathan.a.zorich@usace.army.mil) |
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Hausmann, Filardo, Fone called in.

**January birthdays include: Conder and Wright**

**HAPPY BIRTHDAY!**

**1. FPP change forms approved.**

**1.1. 16BON001 – Table BON-1 Spill Values.**

**1.2. 16BON002 – PH2 Mid-Range Operations.** *Approved with language inserted saying that PH2 units will be operated above the mid-range infrequently, consistent with previous years.*

**1.3. 16BON003 – PH2 Lower 1% Operations.**

**1.4. 16TDA001 – Ladder Crowding.** *Approved with language inserted to notify control room and to coordinate with BPA, and with ‘fish’ defined as adult salmonid. Also language to coordinate with FPOM as long as issue continues.*

**1.5. 16TDA002 – Trashracks.**

**1.6. 16TDA003 – Water Temperatures.**

**1.7. 16TDA004 – Entrance Criteria.**

**1.8. 16TDA005 – Reporting.**

**1.9. 16MCN001 – Figure MCN-1 Open FOGs.**

**1.10. 16IHR001 – Doble Testing.**  *Approved – language with general time frame will remain in the main body of the FPP with language inserted directing folks to look for specific dates in Appendix A. Language with specific dates and justification will be placed in Appendix A. The Doble testing portion of Appendix A will always come to the change form meeting.*

**1.11. 16IHR002 –Winter Unit Priority.**

**1.12. 16IHR003 – Min Gen Standardized Language.**

**1.13.** **16IHR004 – Cold Weather Standardized Language.**

**1.14. 16IHR005 –Low Flow Spill Patterns.** *Approved with language inserted stating that the operation is for on or after 21 June (start of summer spill), and for when the average daily outflow is forecast to remain below 30 kcfs for more than 3 days and declining. Table language was also modified.*

**1.15. 16IHR006 – Condition Sampling.** *Approved with the sample rate language removed, language inserted stating no more than 4 hours of sampling each day and reporting ‘sent’ instead of ‘posted’ within 12 hours.*

**1.16. 16LMN001 – Doble Testing.**  Withdrawn and *moved to Appendix A. FPOM would like to see justification for chosen dates.*

**1.17. 16LMN002 – Min Gen Standardized Language.**

**1.18.** **16LMN003 – Cold Weather Standardized Language.**

**1.19.****16LMN004 – Low Flow Spill Patterns.** *Approved with edits as for IHR for criteria to close RSW.*

**1.20. 16LGS001 – Min Gen Standardized Language.**

**1.21.** **16LGS002 – Cold Weather Standardized Language.**

**1.22. 16LWG001 – Gatewell Orifices.**  *Will be revisited as the new facility comes online*.

**1**.**23.** **16LWG002 – Min Gen Standardized Language.**

**1.24.** **16LWG003 – Doble Testing.**  *Approved with edits as for IHR. Yearly specific dates will be kept in Appendix A.*

**1.25.** **16LWG004 – Cold Weather Standardized Language.**

**1.26.** **16LWG005 – Low Flow Spill Patterns.**  *Approved with edits as for IHR for criteria to close RSW.*

**1.27.** **16LWG006 – Delete Outdated Language.**

**1.28. 16AppB001 – Miscellaneous Changes.** *Approved with specific sample start times removed from the FPP and with LMN inserted in the list of dams.*

**1.29.** **16AppG001 – BON Lamprey Collection Temperature.**

**1.30*.* 16AppJ001 – MCN Temperature.** *Approved with added decimal place in the temperature.*

**2. FPP change forms still pending, or approved with action items.**

**2.1. 16LGS003 – Low Flow Spill Patterns.** *Not posted for FPP meeting. Generally approved with the edit of TSW closure criteria of 35 kcfs changed to 50 kcfs, Wright will send out for review.*

**2.2. APPENDIX A – Special Project Operations & Studies.** *Sections 7-9 Approved, Section 6 Pending. Verbiage with IHR turbine testing and dates will be clarified by Brian Vorheis and form will be resent for review.*

**3. FPP change forms withdrawn.**

**3.1. 16TDA006 – PUD Trashraking.**

**BONNEVILLE DAM**

**1. 16BON001 – Table BON-1 Spill Values. *Approved***. Dec 17, 2015.

**2. 16BON002 – PH2 Mid-Range Operations**. *Submitted Dec 17, 2015. FPOM requested more time to review along with results from B2 FGE study.* Fredricks said he generally agrees, but with eliminating the last part pertaining to Aug-Oct operation. Something needs to be inserted that the PH2 units should be operated as much as possible in the mid-range. Until the units are modified with flow-control plates, he’d prefer they be operated in the 13-15 band. Bettin said the problem is you bring in really large dead bands, 1 k difference could mean a whole new unit. They can watch in-season and issue a teletype. It’ll only be for next summer. Fredricks said he still would like that language. Bettin said tinkering with the change form would make it worse and to leave it as-is. All that matters is that the operator understands what to do. **Approved, with language inserted saying that if practical, PH2 units will be operated within the mid-range.**

**3. 16BON003 – PH2 Lower 1% Operations.** *Submitted Dec 17, 2015; FPOM requested more time to review.* **Approved**.

**THE DALLES DAM**

**4. 16TDA001 – Ladder Crowding.** *Final draft posted online Dec 22, 2015*. Rerecich said that subsection 2 should better define the timeline involved in implementing an emergency spill operation, and to insert the word immediate. Fredricks said that let’s make sure that once the trigger is reached, the Project Biologist knows to take immediate action. Cordie asked if that means they take action and then notify people, or vice versa. Bettin said immediately notify, because spill may not be operationally possible. He asked if the project bio should contact RCC. Wright said it’d be RCC or the project bio who issues notification. Bettin asked if it’d be via teletype. Wright said probably. Baus asked what the process would look like. Fredricks said it’d have to be an emergency of some sort. Bettin said it’s not a trigger like BON. Fredricks said the number of 35k [fish ladder count] is negotiated, the point is if you see a crowding problem and you see fish dying, you have to do something. Bettin said one mortality might not be an issue, Condor said one dead fish means there’s more. Cordie said the process would be they contact control room. The control room would contact the necessary people. van Dyke asked if there’s actions for fish mortalities elsewhere in the FPP, Wright said it’s covered under the MFR coordination. Rerecich also requested language that FPOM coordination occur daily during operation. **Approved with language inserted to notify control room and to coordinate with BPA, with ‘fish’ defined as adult salmonid, and that coordination with FPOM will occur as long as the issue continues.**

**5. 16TDA002 – Trashracks. *Approved.*** *Dec 17, 2015.*

**6. 16TDA003 – Water Temperatures. *Approved*** *Dec 17, 2015*.

**7.** **16TDA004 – Entrance Criteria. *Approved*** *Dec 17, 2015*.

**8.** **16TDA005 – Reporting. *Approved*** *Dec 17, 2015*.

**9.** **16TDA006 – PUD Trashraking.** *Submitted Dec 17, 2015; FPOM requested revisions to include timing for raking. Revised and posted online Jan 11, 2016*. Cordie said he looked at the graph and there’s no good time really to rake. He looked at other activities they do that don’t affect fish. Fredricks said there’s no proof, there’s no data to support that there’s no effect on fish. Cordie said that years ago they went out and observed the count station brushes, which are really loud, and there was no impact on fish egress. They interviewed counters and they said there was no issue. Fredricks said that what bothers him is that if you keep adding things like this, where do you draw the line. Cordie said the PUD rake is 80 ft away from the fish exit. Fredricks said that he still wants to have it occur when there’s not a lot of fish, Cordie said there’s not really such a time. Fredricks said if they can’t find a time because there is no good time, that’s fine, but bringing in the examples bothers him because it’s anecdotal. Condor said based on the diel graphs the best time looks to be between noon and 1600. Bettin stated they’ve been cleaning screens for many years and there’s no documented impact. Fredricks said no change to the FPP. **STATUS: Withdrawn**.

**JOHN DAY DAM**

**None**

**MCNARY DAM**

**10. 16MCN001 – Figure MCN-1 Open FOGs. *Approved*** *Dec 17, 2015*.

**ICE HARBOR DAM**

**11. 16IHR001 – Doble Testing.**  *New. Posted online Dec 21, 2015*. Moody said they’ve been doing Doble testing the past few years, it used to be a blanket section in Appendix A, and now it’s moving to the FPP project-specific chapters for all dams on the Snake River. They’re trying to find the time where the least fish are passing, and this change form provides the justification for the time of testing. Testing occurs every second or third year, usually in conjunction with other work. NWW was asked to put things that were routine into the main text of the FPP. Appendix A now just has the research stuff. Wright said that having specific dates in the main body of the FPP is unusual, and asked if folks were ok with that and where do they want those dates. Fredricks said don’t list it by year, but as long as a range of dates are agreed upon, then just leave the general language in there. Condor said the main body of the FPP could have a general time frame, and list the yearly dates someplace else. Fredricks said it’s nice to have the dates ahead of time so people are aware. Condor said this change form has a nice justification with it, it’s nice to be able to see the reasoning. Fredricks asked if there could be a change form every year for Doble testing dates planned for that year at all projects with rationale behind the specific dates selected and concurrent fish passage data for all species. If there’s any discussion then that could occur. Bettin said you have to look at things as a package because there’s one guy doing the testing every year. Setter said that there could be one change form every year for all projects. Wright said an MOC would do provide justification, Setter said they don’t want to do an MOC for Doble testing. Wright said that the purpose of Appendix A was to have yearly dates. Bettin said the research held up the operational information, why not have Appendix A1 and A2. **Approved. Language with general time frame will remain in the main body of the FPP with language inserted directing folks to look for specific dates in Appendix A. Language with specific dates and justification will be placed in Appendix A. The Doble testing portion of Appendix A will always come to the change form meeting.**

**12.** **16IHR002 –Winter Unit Priority.**  *New. Posted online Dec 21, 2015*. **Approved**.

**13.** **16IHR003 – Min Gen Standardized Language.**  *New. Posted online Dec 21, 2015*. **Approved**.

**14.** **16IHR004 – Cold Weather Standardized Language.**  *New. Posted online Dec 22, 2015*. **Approved**.

**15.** **16IHR005 –Low Flow Spill Patterns.**  *New. Posted online Dec 29, 2015*. Condor said that the issue with the criteria used for removing the RSW is that the outflows can bounce around a lot. Condor asked what ‘automatically interpolated’ means. Wright said the generated values aren’t always exact and so the numbers will have to be adjusted for other forebays and spill. **Approved with language inserted stating that the operation is for on or after 21 June (start of summer spill), and for when the average daily outflow is forecast to remain below 30 kcfs for more than 3 days and declining**. **Table language was also modified.**

**16.** **16IHR006 – Condition Sampling.** *New. Posted online Jan 28, 2016*. Condor just submitted this form, Setter said they might want some adjustment with the wording. The temperature issue last June meant no sampling and she wasn’t comfortable taking that language out. Condor said that was covered under permitting, Setter and Fredricks said they wanted the language left in. Condor said there’s a current issue with too many days between sampling and also with reporting. This has been discussed in the Smolt Monitoring Task Group, but for IHR there’s consistent agreement that these issues need to be dealt with. Setter said the 100 fish were sometimes hard to get, a 4-hour period is typically used and sometimes that can be very little fish. Setter didn’t like the 10% portion as well. Fredricks said that this could be for all projects, Setter said that the other projects have different setups and she isn’t comfortable agreeing with that today. Also the contractor sends the data out but it may not be posted in 12 hours. Fone said that there’s more than three days between Thursday and Monday, Condor said Fri-Sun are three days so it’s not an issue. Bailey brought up the issue of holidays, Fone said they could work the holidays. van Dyke asked why the temperature limit for sampling wasn’t 68, there might be a continuity issue across projects. Condor didn’t want to change it for IHR this year. **Approved with the sample rate language removed, language inserted stating no more than 4 hours of sampling each day and reporting ‘sent’ instead of ‘posted’ within 12 hours**.

**LOWER MONUMENTAL DAM**

**17. 16LMN001 – Doble Testing.**  *New. Posted online Dec 21, 2015*. **Withdrawn and dates moved to Appendix A. FPOM would like to see justification for chosen dates**.

**18.** **16LMN002 – Min Gen Standardized Language.**  *New. Posted online Dec 21, 2015*. **Approved**.

**19.** **16LMN003 – Cold Weather Standardized Language.**  *New. Posted online Dec 22, 2015*. **Approved**.

**20.** **16LMN004 – Low Flow Spill Patterns.**  *New. Posted online Dec 29, 2015*. **Approved with edits as for IHR**.

**LITTLE GOOSE DAM**

**21. 16LGS001 – Min Gen Standardized Language.**  *New. Posted online Dec 21, 2015*. **Approved**.

**22.** **16LGS002 – Cold Weather Standardized Language.**  *New. Posted online Dec 22, 2015*. **Approved**.

**23. 16LGS003 – Low Flow Spill Patterns.** *Not posted*. Wright will send it out for review.

**LOWER GRANITE DAM**

**24. 16LWG001 – Gatewell Orifices.**  *New. Posted online Dec 21, 2015*. **Approved**. Will be revisited as the new facility comes online.

**25.** **16LWG002 – Min Gen Standardized Language.**  *New. Posted online Dec 21, 2015*. **Approved**.

**26.** **16LWG003 – Doble Testing.**  *New. Posted online Dec 21, 2015*. **Approved with edits as for IHR. Sentence referencing Aug-early Sept time frame will be removed.**

**27.** **16LWG004 – Cold Weather Standardized Language.**  *New. Posted online Dec 22, 2015*. **Approved**.

**28.** **16LWG005 – Low Flow Spill Patterns.**  *New. Posted online Dec 29, 2015*. **Approved. Criteria will be revised as for IHR**.

**29.** **16LWG006 – Delete Outdated Language.** *New. Posted online Jan 26, 2016*. **Approved**.

**APPENDICES**

**27. APPENDIX A – Special Project Operations & Studies.** *Draft posted Jan 25, 2016*. Condor said that section 6.1.2 should specify ‘turbine testing’ and not a ‘performance test’ which sounds like fish survival testing. He suggested getting turbine testing done by April 31 to prevent testing conflicts. Setter said timing depends on when they start and they haven’t started yet. **Section 6.1.2 Pending**. Verbiage with turbine testing and dates will be clarified by Brain Vorheis, IHR Chief of Ops. **Sections 7 through 9 approved**; those sections will be coordinated through FFDRWG and SRWG at a different date.

**28. 16AppB001 – Miscellaneous Changes.**  *New. Posted online Jan 11, 2016*. Bailey said the language referencing sample times are inconsistent. There was discussion about times listed in the FOP. **Approved with specific sample start times removed from the FPP and with LMN inserted in the list of dams.**

**29.** **16AppG001 – BON Lamprey Collection Temperature.**  *New. Posted online Dec 17, 2015*. **Approved**.

**30.** **16AppJ001 – MCN Temperature.**  *New. Posted online Dec 21, 2015*. Setter said they’re required at MCN to conducted annual temp monitoring. She said that Johnson had been working at MCN for some time and thinks he’s noticed that changes started occurring around 68 degrees. Fredricks said he understands the intent of the change form and the added consistency, but it means you’d miss more days of observation during the season. It was generally agreed that MCN is different temperature-wise than other dams. **Approved with added decimal place in the temperature**.

**POTENTIAL CHANGE FORMS AND OTHER TOPICS FOR DISCUSSION**

**31. Digital Governor Testing – Ongoing.**

**32. BON Forebay Operation when UMT is Closed.**  See FPOM MOC 15BON06 CI Fish Valve Repair. **Ongoing**.

**33. BON Minimum Spill.** Pending Task Group review of Ebner report and ERDC modeling.

**34. Appendix A – Special Operations & Studies.** Draft posted Jan 25, 2016. Last year, FPOM noted several operations in Appendix A where coordination procedures (including anticipated biological effects of actions) could be improved. Take-aways:

* + - Special, non-routine O&M that may impact fish will be coordinated with FPOM via MOC.
    - Routine O&M (e.g., Doble testing) will be added to the FPP project-specific chapters.

Need to define what, if any, O&M needs to be included in Appendix A. Yearly dates for nav lock outages; MCN forebay for waterfowl nesting; long-term headgate maintenance programs at MCN, LMN; etc.

**35. Appendix B – Transport Plan.** Revise truck transport minimums if supported by data analysis to determine likely effects, including frequency and duration. Wagner will request NOAA Montlake to analyze data.

**36. Appendix C – Load Shaping Guidelines.** Needs to be updated and aligned with project-specific sections on turbine ops.