

Memorandum for the Record

SUBJECT: DRAFT minutes of Willamette FPOM January meeting

The meeting was held at USACE NWP HQ, Block 300. Portland, Oregon. In attendance:

Last	First	Agency	Email
Brown	Jeff	NMFS	Jeffrey.Brown@noaa.gov
Burchfield	Stephanie	NMFS	Stephanie.burchfield@noaa.gov
Couture	Ryan	ODFW	ryan.b.Couture@state.or.us
Dishman	Diana	NMFS contractor	
Garletts	Doug	NWP-OD-V	Douglas.F.Garletts@usace.army.mil
Grenbemer	Greg	ODFW	Greg.A.Grenbemer@state.or.us
Helms	Chad	NWP-OD-V	Chad.K.Helms@usace.army.mil
Hudson	Mike	USFWS	michael_hudson@fws.gov
Khan	Fenton	NWP-PM-E	Fenton.o.khan@usace.army.mil
Kovalchuk	Erin	NWP-OD-TF	Erin.H.Kovalchuk@usace.army.mil
Mackey	Tammy	NWP-OD-TF	Tammy.M.Mackey@usace.army.mil
Sharpe	Cameron	ODFW	Cameron.sharpe@oregonstate.edu
Taylor	Greg	NWP	Gregory.A.Taylor@usace.army.mil
Traylor	Andrew	NWP-OD-TF	Andrew.W.Traylor@usace.army.mil
Walker	Chris	NWP-OD-TF	Christopher.E.Walker@usace.army.mil

On the phone: Brown, Couture, Garletts, Grenbemer, Helms, Hudson, Kovalchuk, Sharpe, Taylor and Walker.

1. Final actions – September meeting minutes were approved in October.

2. Action Items

- 2.1. [Jan 2017] ACTION: Greg Taylor will provide information regarding how often outside of the 2 degree C° difference criterion for fish releases.
- 2.2. [Jan 2017] HMT Updates. ACTION: NOAA needs to provide their list of low cost suggestions for the Foster ladder so they can be incorporated into the study design.
- 2.3. [Jan 2017] 16BCL03 - ACTION: Walker will discuss minimum gate openings with dam safety for February.
- 2.4. [Oct 2016] HGMP updates. Sharpe asked about implementing one the components of the sufficiency letter which was the integration of wild fish into the hatchery broods. ACTION: Chane said that he will follow up with the Office of Counsel to find out if it is possible before the HGMP is finalized. *Status: The components can't be implemented in pieces. All actions need to wait until the HGMPs are finalized. It is unknown when this will happen.*
- 2.5. [Oct 2016] 16DET06 MFR Minto Fish Facility Power Issues. ACTION: Hall will check with electricians about the breaker setting levels. *Status: The power analyzer has been installed. In order to understand the problem, the event would have to happen again. The maintenance crew doesn't have the capacity to investigate or complete moving the breaker. Most of the solutions involve a contract which makes it difficult. A hoist may be a good interim solution. This should be CRFM funding since it is a design deficiency.*
- 2.6. [Oct 2016] 16DET06 MFR Minto Fish Facility Power Issues. An engineer from Portland has been included on all of the email and Hall will follow up to make sure that the electricians

and engineers are working together. ACTION: Hall will contact the engineer to learn the status.

3. Updates

- 3.1. HMT Updates – Introducing new pathogens and diseases to Marion Forks hatchery is one concern ODFW raised with releasing winter steelhead above Detroit. (The lack of safe downstream passage at Detroit and Big Cliff are another reason not to place listed winter steelhead in this upstream habitat, as voiced by NMFS and ODFW). The water supply treatment facility at the hatchery would be very expensive. At Foster, the COE is working with Chris Caudill for a study design to evaluate different ways to increase fish attraction to the ladder. The suggestion to light up the tunnel leading to the ladder was rejected. All suggestions need to go through the COE so that the proposal is accurate and the study is valid. **ACTION: NOAA needs to provide their list of low cost suggestions for the Foster ladder so they can be incorporated into the study design.** Most fish health is very good this year.
 - 3.1.1. North Santiam
 - 3.1.2. South Santiam – High culling rate for IHN but will still make goal.
 - 3.1.3. McKenzie
 - 3.1.4. Middle Fork
- 3.2. HGMP updates – The HGMPs are being reviewed by NOAA right now and the comment period is open till the end of the month. Traylor still has several to do for summer steelhead and trout hatchery production.
- 3.3. Research/FPT updates – Currently, the FY 17 study proposals are being finalized. Most studies will not affect operation except at Foster and will request the same operations as the last few years. The PIT antennas at Foster and Minto need to be modified for lamprey passage. The researchers have the parts to make the modification but the ladder outages need to be coordinated so the contractors make one trip. Minto is planning on doing the ladder inspection at the same time and can do it anytime. The first winter steelhead passed Bennett on Jan. 19th. Foster sluice gate repair construction is back on schedule, with parts expected to arrive by Jan 30. The coordination for PIT antenna modification will hinge on Foster's schedule. Electricians will also address the safety concerns during this outage. No research going on in the N. Santiam and there is a juvenile reservoir survival study at the Middle Fork but no special operations are needed. The JSAT study at LOP will be in March. NOAA requested the Corps plan to provide spill for this study in March and April at LOP, because the study of fish passage and survival at the dam has little value if the fish have to dive over 100 feet to find an exit route. At McKenzie, Taylor is working with PSMFC for a study but the details are not worked out. This will be discussed at RM&E.
- 3.4. Water Quality Updates – High TDG in N. Santiam (discussed below in the MOC section)
- 3.5. Flow update - The reservoirs should be filled by February 1st and hoping for a lot of water.
- 3.6. BPA updates – No update
- 3.7. Cougar Fish Facility – Shut down for winter.
- 3.8. Fall Creek Fish Facility – Shut down for winter. Construction poured post-sort facility slabs and columns.

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

- 4.1. 16BCL03 MFR turbine unit outage – Big Cliff one was scheduled the other two were forced. All three times high TDG was reported. Comments were received on all three. The dam is really old and it is unclear what structural solution can be made. The Corps noted that NMFS and ODFW put fish into this habitat each year knowing that the habitat is not ideal. From the Corps' perspective, since the long term plan in the Biop is to put fish above Detroit, investing in this reach doesn't make a lot of financial sense. Burchfield pointed out that this habitat will

- still be used after passage is improved at Detroit/Big Cliff, and she asked the Corps to begin evaluating alternative structural solutions, such as flip lips, to reduce TDG. The TDG/structural issue is a FFDRWG decision. Taylor suggested parceling spill out over multiple gates to minimize TDG. Big Cliff has three spill gates. This used to be the spill method but no longer because of the minimum gate opening. The minimum gate opening requirement is due to safety and wear and tear on the gates. At Foster, the hydraulics section won't allow going below the minimum gate opening due to vibration and dam safety concerns. **ACTION: Walker will discuss minimum gate openings with dam safety for February.** Taylor will provide documentation of this previous operation to Burchfield so that NOAA could fully understand this operation.
- 4.2. 17BCL01 MFR turbine unit outage – BPA had to do line maintenance and coordinated with operators outside of the outage schedule. A meeting was held with the dam operators so they are aware of the outage schedule and its importance. BPA is now aware of the outage schedule also.
 - 4.3. 17BCL02 MFR turbine unit outage
 - 4.4. 17BCL03 minimum flow- Comments are due Feb 1st. There was a 5.8% deviation from the minimum flow. The Big Cliff flows are released at a much faster rate and Detroit has more gradual flows. Walker looked into this and will add to the MOC. If there is a more preferable method either the faster or gradual flows, then this should be applied to both dams.
 - 4.5. 17FOS01 MOC Foster Fish Facility Outage- The construction is back on schedule. Parts will arrive on time.

5. **Fish Operations Plan:** WFOP homepage: http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Willamette_Coordination/WFOP/

- 5.1. Status of the 2017 WFOP. – Comments were due at the end of the year.
- 5.2. Change forms
 - 5.2.1. 17OVE001 – Approved.
 - 5.2.2. 17OVE002 – Approved.
 - 5.2.3. 17OVE003 – Approved.
 - 5.2.4. 17OVE004 – Approved. Walker will add a spreadsheet with several tabs that will change over time in the appendix.
 - 5.2.5. 17OVE005 – Approved.
 - 5.2.6. 17OVE006 – Approved.
 - 5.2.7. 17OVE007 – Approved.
 - 5.2.8. 17OVE008 – Approved but not sure which section it is going into.
 - 5.2.9. 17OVE009 – Approved.
 - 5.2.10. 17OVE010 – Approved.
 - 5.2.11. 17OVE011 – Approved.
 - 5.2.12. 17OVE012 – Approved.
 - 5.2.13. 17OVE013 – Approved.
 - 5.2.14. 17OVE014 – Pending – need to know exactly what language is changing
 - 5.2.15. 17OVE015 – Pending – unclear exactly what is wanted hear.
 - 5.2.16. 17OVE016 – Pending – this is similar to one from NMFS. Parties will discuss and come up with appropriate language
 - 5.2.17. 17OVE017 – Denied. The details of hatchery production should not be in here.
 - 5.2.18. 17OVE018 – Pending - also do not include the place of the meeting since sometimes it changes.
 - 5.2.19. 17OVE019 – Pending - add a reference to where the migration period and predetermined locations are located in the document.
 - 5.2.20. 17OVE020 – Redundant - need to combine with the NOAA change form for the same issue.

- 5.2.21. 17NS001 – Approved.
- 5.2.22. 17NS002 – Pending – add language that indicates holding fish if the release water is too warm water. ODFW currently does this. Tempering language is already in the WFOP.
- 5.2.23. 17NS003 – Approved.
- 5.2.24. 17NS004 – Approved.
- 5.2.25. 17NS005 – Approved.
- 5.2.26. 17NS006 – Approved.
- 5.2.27. 17NS007 – Denied. This issue should be added to the WFPOM, HMT and WFFDRWG agenda to address options of getting fish fully out of the truck.
- 5.2.28. 17NS008 – Pending. This language is very vague and could be changed to “hatchery managers use their best judgement”.
- 5.2.29. 17NS009 – Approved.
- 5.2.30. 17NS010 – Pending. Test results do not go to into this document. Walker will remove the last two sentences and will add the elevations when the RO can be used.
- 5.2.31. 17NS011 – Denied. This issue will be in an MOC this year and if it works then a change form will be submitted.
- 5.2.32. 17NS012 – Pending. The justification is about temperatures but the comments are about TDG. This form needs to be rewritten. BPA needs to comment on this issue too.
- 5.2.33. 17NS013 – Approved.
- 5.2.34. 17NS014 – Denied. The language in the change form is for an MFR in an emergency situation.
- 5.2.35. 17NS015 – Approved first two; #11 – pending change to “coordinated with hatchery staff”; #12 – pending proposed language in 2 gallons of water per 1lb of fish with the equivalent of number of fish; #14 – pending change to “minimize use” of the antibiotic. If this is not required the take it out. 5.2.2.1 – Pending HMT; 5.2.2.6 – pending contact is always available via email; 5.2.2.10 – pending. Stopping here and moving these over to HMT.
- 5.2.36. 17NS016 – Pending – clarify that it is the facility operators. Contract will explain exactly what should be inspected.
- 5.2.37. 17NS017 – Comments noted. Part 1 – it will be clarified by the previous change form. Part 2 – provide an inspection sheet to the group and the completed forms should be sent back to Chris.
- 5.2.38. 17NS018 – Approved. The COE can provide a template.
- 5.2.39. 17NS019 – Comments noted. Orifice flow means turning off AWS water. Walker will add a rough definition of orifice flow in the definition section.

The change forms for the North Santiam that carry over to the South Santiam can be approved and the editorial ones will be approved. Walker will sort out the change forms for HMT and bring the pending ones back to the February meeting.

6. Task Group Updates.

6.1. Active Task Groups.

- 6.1.1. North Santiam temperature targets (Walker) 2017 – The TG met in October and came up with recommendations. An MOC will be written so that people who were not on the task group can comment and see if the suggestions work. If the recommendations do work out, then a WFOP change form will be written. These would then be implemented on a test basis in 2017 before making a permanent change to WFOP.

Burchfield requested the Corps make sure the Detroit PDT and WFFDG include these new target in the design of the new temperature/fish passage tower at Detroit.

- 6.1.2.** Flow task group/workshop (Piaskowski) – This group is busy with main stem flows.
- 6.2.** Not yet Active Task Groups.
 - 6.2.1.** Summer Steelhead (Traylor/Taylor)

Next meeting will be February 22nd in Portland.