

## MEMORANDUM FOR THE RECORD

Subject: FINAL Minutes for the 14 August 2008 FPOM meeting.

The meeting was held in the Bonneville Dam Auditorium. In attendance:

Last	First	Agency	Office	Email
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Wills	Dave	USFWS	360-604-2500	<a href="mailto:David_wills@fws.gov">David_wills@fws.gov</a>

Bill Hevlin, Jerry McCann, Larry Swenson and David Wills called in.

1. Reviewed the agenda and approved the June and July FPOM minutes.
2. Action Items
  - 2.1. [long time ago] BON PH1 Grizzlies. **ACTION:** Hausmann will investigate options for modifying the PH1 draft tube drains.
  - 2.2. [Jun 08] BON FOG lifting beam status. **ACTION:** Hausmann will inquire about completion time and send to FPOM. **STATUS:** *this has been moved to Small Projects. BON will fabricate the beam in September.*
  - 2.3. [Jul 08] BON spillway drilling. **ACTION:** Schwartz to follow up with Don Erickson. **STATUS:** *Currently on hold. There may not be money to award the contract at this time.*
  - 2.4. [Jul 08] BON spill patterns with Bay 15 closed. **ACTION:** Schwartz and Lee will get a memo discussing the GDACS patterns to FPOM by 15 July. **STATUS:** *Completed.*
  - 2.5. [Jul 08] BON spill patterns with Bay 15 closed. **ACTION:** Fredricks will talk with Paul Wagner about getting BON higher on the spill priority list. **STATUS:** *Completed.*
  - 2.6. [Jul 08] AFF trapping protocols when water temperatures reach 70°F. **ACTION:** CRITFC will look PIT tag data for travel time from the AFF to BO3.
  - 2.7. [Jul 08] Water Quality ad-hoc committee. **ACTION:** Klatte will convene the meeting to discuss water quality testing protocols and needs.

- 2.8. [Jul 08] McNary dewatering screen monitoring. **ACTION:** Swenson will put together a memo detailing the recommendation.
- 2.9. [Jul 08] LGS back flushing of orifices. **ACTION:** Hevlin will meet with NWW to discuss options. He will present findings and report to FPOM in September.
- 2.10. [Jul 08] FPC descaling criteria. **ACTION:** Benner to check on status of FPC memo. It'll include all the information requested by FPOM such as descaling criteria and determination; need a central SMP brain, which should be FPC; and reporting criteria. **STATUS:** *McCann said he decided not to write a memo and instead just talk to FPOM. He talked with USACE and figures there isn't a problem. There hasn't been any change in sampling criteria; there was a site specific issue of reporting descaling as "old" or "new" descaling. Fredricks asked if a standard set of criteria have been developed. McCann said no. FPC tried to standardize the reporting, but ran out of time to standardize the monitoring metrics. The different sites have their own definitions for each metric. They may provide a standardized metric for collection during the off-season. Fredricks wants something in place for the 2009 fish passage season. He would like to see the criteria go through FPOM. Action Item- FPC will develop criteria and work with site bios then bring it to FPOM. This will occur before January.* Dykstra added that there are two sources of funding for the transport and the SMP programs. He discussed the fin pinkness issue and showed a photo of fins with some hemorrhaging in the ventral fins. McCann said he thinks this type of fin pinkness is an injury and that is should be dealt with. Dykstra responded that he has no issues with making the information public and reporting it, but he would like to see fin pinkness separated from more critical injuries such as head injuries. He would like to get Dave Hurson's input on how to best report these differences. Hurson's contract expires in mid-September. Fredricks agreed that was needed. Get all those with experience talk about what the best set of criteria would be and how to make it useful. **Action item-A new task group was formed, with Dykstra as the Chair. The group will meet at NWW in early/mid September.**
- 2.11. [Jul 08] FPP coordination actions. **ACTION:** Mackey to develop alternative POC list. **STATUS:** *This will be completed with the FPP changes.*
- 2.12. [long time ago] Switchgate seals at BON and JDA. **ACTION:** JDA will move forward with the airbladder seals. NOAA worries about fish being able to access areas under the gate. BON will continue moving forward with reducing leakage around and under the gate. **STATUS:** *JDA has turned the task over to the Small Projects team at RDP. Mike Adams is the POC.*
- 2.13. [Jun 08] JDA PIT tag detection in the SMF bypass flume. **ACTION:** JDA Project will establish criteria for shutting down the facility. Cordie will get final approval for leaving the flume running until 30 November. **STATUS:** *Cordie sent the following plan for operating through 30 November. FPOM agreed to this plan.*
- 2.13.1. Winterize all flush water plumbing and maintain flume flow only Nov 1-30
  - 2.13.2. Switch gate open to river Sept15-Nov30 (no flow from switch gate to building)
  - 2.13.3. Re energize flush water prior to dewatering entire facility on Nov 30
  - 2.13.4. Provide 16hr/day staffing Sept 15-Nov30
  - 2.13.5. Maintain updated forecast and shut down ASAP as needed (~<25F)
  - 2.13.6. Forecast staffing for shutdown as needed (requires 6 people)
  - 2.13.7. Shut down Mon-Thu to assure maintenance staff available
  - 2.13.8. Routine winter maintenance on SMF from crest gate down Nov 30 - Mar 30
- 2.14. [Jul 08] Jack length. WDFW recommends two criteria for determining jacks, one measurement for Spring chinook and one for Fall chinook. **ACTION:** Fryer will look at jack length and come up with a sensible recommendation. **STATUS:** *FPOM wants*

time to review the memo and to discuss this in September. Fredricks said the change could have far reaching implications. The recommendations need to be carried beyond this group. WDFW/ODFW will need to carry any recommendations forward after FPOM has a chance to discuss it in September. FPOM will ask S. Richards how he would like to handle this.

- 2.15. [May 08] NWW fish release site at BON. **ACTION:** Dykstra will draft up the SOP for draining the flushing water line after each fish release. The flushing will be done by the truck drivers. **STATUS: To be discussed under agenda item #7.**
  - 2.16. [May 08] TDA grating replacement. **ACTION:** Cordie will look at the cost of water chemistry testing. **STATUS: to be discussed under agenda item #8.**
  - 2.17. [Jul 08] JDA MU1 annual maintenance. **ACTION:** Cordie will need to look at the 2004-2007 passage numbers in October by JDA. Cordie will prepare a memo and send that to FPOM. **STATUS: To be discussed under agenda item #10.**
  - 2.18. [Jul 08] FPC descaling criteria. **ACTION:** Moody and Dykstra will review the reporting requirements in the SMP contract. They will take action to make sure the injuries are accurately reported in the SMP and USACE reports. They will report back at the August FPOM. **STATUS: To be discussed under agenda item #15.**
  - 2.19. [Aug 08] FPC descaling criteria. **ACTION:** McCann will provide a schedule for the development of the criteria, to FPOM by 11 September and have criteria drafted by January 2009.
  - 2.20. [Aug 08] SMP task group. **ACTION:** Dykstra will send out an invitation for the task group to meet prior to Hurson leaving.
  - 2.21. [Aug 08] Kaplan Blade Study. **ACTION:** HDC (Rod Wittinger) will notify FPOM when the study is at a good point for FPOM review.
  - 2.22. [Aug 08] Bradford Island transformer pad. **ACTION:** Mackey and Schwartz will get more information as to the critical nature of getting the pad done now as opposed to November or winter maintenance season.
  - 2.23. [Aug 08] JDA MU1 outage. **ACTION:** Cordie will need to look at the spill and see if attraction flow might be provided to reduce passage delay. If the Project will swap MU1 with MU3, then this won't be an issue.
  - 2.24. [Aug 08] Non Native fish issues. **ACTION:** Mackey to send Wills the Predation Workshop announcement. **STATUS: completed on 20 August.**
3. **Updates.** (Klatte/Dykstra)
- 3.1. BON Main Dam bay 15. Hausmann reported that everything is good. Bay 18 is still dogged at two dogs (2.9'). Repairs will cost \$110K and a 32 week lead time. Bay 18 will remain dogged at two dogs until the end of spill, then it will go to one dog (1.8') until B-Branch goes down for winter maintenance.
  - 3.2. NWP ROV inspections. BON-8/25 (cancelled. New suggested date 9/10), TDA- 8/5, JDA- 8/6. The rescheduling of the BON ROV has created some problems. An Official Coordination e-mail was sent by T. Mackey on 13 August. The recommendation is to not do a mid-season ROV inspection due to 10 September falling at the historic peak of the Fall chinook run. There are no reasons for concern about the grating or fishway condition at this time so BON Fisheries is comfortable waiting until the winter ROV inspection. **FPOM approves cancelling the mid-season ROV inspection at BON.**
  - 3.3. BPA outage on 25 August. All units, except units 1, 2, and 10, will be out of service for twelve hours (0700-1900) on 25 August for maintenance. Schwartz recommended shutting down PH2 early to allow fish to find the ladders at PH1. **FPOM recommends switching PH priority at midnight on 25 August.**

- 3.4. Water temps and sampling. Update on how each facility is operating. JDA SMF is operating normally. BON JMF is operating normally. BON AFF is operating with modified sampling protocols.
- 3.5. BON returned to non-shad passage mode early. Due to limiting factors regarding personnel and workload, there was an inadvertent failure to send a written request for coordinating the return to non-shad passage mode in the ladders. There are very low numbers of shad passing the dam. BON maintenance crews were extremely efficient and got the change over complete faster than expected. Mackey apologized for the lack of coordination. Lorz wants to make sure that whatever numbers are used are good numbers.
- 3.6. MCN fish pump #3 update. Fish pumps 1 and 2 are working fine. Pump #3 has issues. Water keeps pouring in and they can't keep up with it. NWW is trying to work with the contractor to see what is still under warranty and how to get the pump fixed. Fredricks asked if there was a plan to use gravity flow to the AWS. Dykstra said they can't get it unwatered so they can't even figure out what the problem with the pump might be. Rehab has been completed on #1; #2 will begin when #3 returns to service.
- 3.7. IHR TSW vibration monitoring sensor installation. Installation has been successful. Installation required a shift in spill but not a change in volume.
- 3.8. BLH Kaplan blade study. Rod Wittinger did a briefing at the Spring NWW FFDRWG. The report details what will happen with each BLH Kaplan unit (units 1-3 at LMN, LGO, and LGR, and all units at JDA) if we have a linkage failure. If the linkage fails it means the turbine blades cannot adjust. Options are to weld the blades at a specific position and operate it as a fixed bladed unit or repair back to a Kaplan. The 60% review will be ready next week. Fredricks would like FPOM to review the study. He would like a comparison of FPP unit priority with the fixed blade recommendations.  
**Action item:** HDC will be asked to notify FPOM when the study is at a good point for FPOM review.

4. **BON Bradford Island fish crowder issues.** Rerecich explained to the group that there is a metal strip coming off the crowder frame. It has the potential to be an impediment to fish passage. BON Fisheries suggested a couple of options to deal with the metal. The Project can minimize the cleaning of the crowder so the cleaner doesn't catch on the metal and pull it further; they can open the crowder completely for the rest of the season; or they can lower the ladder, get mechanics in, get the piece off and return the ladder to service. FPOM asked if the work could be done at night. Rerecich said that was considered but due to safety concerns for the crews and for monitoring fish condition, night work would not be feasible. The entire operation of getting clearances and getting into the ladder, removing the metal and returning the ladder to service would take about an hour. FV3-9 could remain open a bit to provide flow for fish. **FPOM says to get the work done starting at 0630 on 18 August.**
  - 4.1. **Update.** BON Fisheries reported that over the weekend, the metal broke off and is no longer in the flow. The Bradford Island fishway will not be dewatered.

5. **BON junction pool transformer pad.** Mackey explained that a new transformer pad needs to be poured at the A/B branch junction pool. The work was scheduled to occur ASAP and within 20'-30' of the fishway. The contractor needs to know what limitations there may be to performing the work. FPOM asked why this wasn't done during winter maintenance and they wanted to know how critical this work is right now. Fredricks indicated he was not willing to OK this work during the day, during this time of year. The noise will spook the fish back down the ladder. Schwartz explained that this work is part of the spillway intertie work. A delay of this project may delay future work on the intertie. The discussion

continued into why there are work windows in the FPP and the importance of adhering to those approved work windows. **FPOM says to get all the noisy work done in one night or wait until November or winter maintenance season. Action item- Mackey and Schwartz will get more information as to the critical nature of the work.**

**5.1. Update.** Mackey let Construction know FPOM's recommendation. A new start date of 3 November was proposed by Construction and coordinated with FPOM on 18-19 August.

- 6. BON PH1 ITS construction.** Schwartz talked about the dewatering date proposed for the ITS. The contractor is supposed to get the ITS on 1 November. Schwartz mentioned the construction project currently sits below the line on the SCT spreadsheet so there is a possibility the work won't go forward. Lorz and Fredricks clarified that SCT wants to see the chaingates for forward this year at least. BON needs two weeks to install ITS bulkheads and dewater the ITS. **FPOM is okay with having the ITS out of service from 15 October through 1 March. FPOM also wants STSs and VBSs to be installed 15 September as written in the FPP.**
- 7. BGS post season inspection.** Schwartz added this issue. He requested permission to create conditions favorable to a post season dive inspection of the BGS during the second week of October. Favorable conditions would be two main units and two fish units operating at PH2. Meyer asked if the ITS is out, would PH1 need to be operated to accommodate the dive? The answer was maybe. **FPOM want the dive to occur before the ITS goes out of service this year. In future years, this type of inspection has to occur during winter maintenance.** Bettin asked if this would be an annual event that should be in the FPP. Schwartz answered that at this time the BGS is still considered a prototype. Including inspections in the FPP may be something that occurs further down the road. Meyer asked if there would be a pre-season dive to make sure the BGS over-wintered well. Schwartz said there is no plan to do a pre-season dive.
- 8. Fish truck release site SOP.** Bailey had a PowerPoint presentation outlining the SOP. The procedure is working fine.

**8.1. Update.** The SOP works fine. The fish release process doesn't work so well. The first release occurred on 17 August. Water and fish back flowed out of the release pipe due to the flexible hose fitting inside the pipe instead of locking to it. There is also a need for a splash block during flushing so gravel isn't washed away. During a release on 19 August, fish were swimming back up the release hose.
- 9. Water Quality testing results.** Cordie reported that the first test was below the detectable limit. The detectable limit was .05mg/l; study concerns were as low as .026mg/l. Cordie took more samples, one of which was taken from water poured directly over some galvanized grating. This time the samples will be tested for as low as .01mg/l. What do we do if the results come back higher than .026mg/l? What is the path forward? Do we paint them, move to stainless steel? **FPOM says they would like to see the grates painted with a non-toxic paint so zinc will leach at a slower rate.** Fredricks talked about the need to reduce the impacts through slowing the rate of release or switching to another type of material. Lorz explained that all we are hoping to do is prevent the sharp spike resulting from the initial installation. The paint will peel off over time; the zinc will leach from smaller sections over a lot longer time. There is a cost associated with the additional time and materials of painting grates, but that is less than the cost of switching to stainless steel at this time.

- 10. JDA fish turbine outages on 8/6 and 8/7.** The outage for the ROV did not coincide with the outage for the discharge pipe dive. This occurred because Cordie didn't pass along the FPOM coordination to Miro so when the Dive Safety office asked about moving the dates, no one knew what had been agreed to. Cordie says he is sorry. In all the outages were short in duration. The discharge pipe cap was removed the same day as FPOM.
- 11. JDA Main Unit 1 outage.** Upon review of the January 2008 FPOM minutes, it turns out this outage was already coordinated. Project Fisheries looked at fish passage numbers while MU1 was out of service for annunciation work. MU2 was running during the MU1 outage. There was a shift of fish from one ladder to the other. Stansell asked if days around the outage were looked at to see if there are daily fluctuations in fish movement. Cordie responded that they didn't look outside the outage window but the shifts seen were perfectly timed with the unit operation. Right now MU1 is scheduled out of service from early October until mid/late November. He is trying to work with maintenance to see if they can swap MU1 with MU3. MU3 is scheduled out of service in mid/late November. He isn't getting much feedback from the Project. If the Project will swap MU1 with MU3 then this won't be an issue. If the Project won't swap the units, then the current suggestion is to provide attraction flow to minimize delay during the unit outage. **Action Item- Cordie will look at spill and see if they can detect a difference with the different spill patterns.**
- 12. JDA SMF PDS stand pipe sensor installation.** Cordie reported that the water elevation sensor was installed, but it was installed in the middle of the flume. It will be removed and relocated during winter maintenance. FPOM asked about the breakdown in communication. Cordie said Fisheries was informed but didn't see drawings, nor did they ask for them. In any event, it is something the Project should have realized would be a problem.
- 13. MCN fish incidents.** Dykstra showed some photos. He said e-mail messages were already sent out, this is just an update.

  - 13.1.** The first incident was 175 fish. Fish were jumping in one flume and ended up jumping out of the water and into an area they could not get out of. There were pipes in the raceway, which have been removed. Researchers will get their water from a source other than the raceway.
  - 13.2.** The second incident occurred later the same week. A WDFW smolt monitoring sampling person over anesthetized the tank of fish. 180 died due to the overdose.
- 14. MCN fish ladder winter maintenance work.** A leak prevents the ladder from being dewatered. The plan is to get in during normal winter maintenance season and repair the leak. **FPOM agrees to MCN getting this winter maintenance work done during the winter maintenance period.**
- 15. Date change for LMN T1/ 500KV work.** This is proposed for 25 October until 11 November timeframe. The FPP has late September/ early October as the tentative dates. The fish concerns are that the entire powerhouse will be completely out of service. All flow will be directed through the spillway. **FPOM is okay with this work.**
- 16. FPC/SMP reporting changes.** Discussed under item #2.10.
- 17. Non-native fish issues.** Cordie reported that for several years now, USDA, through the dam angling program, has been catching pikeminnow but they release all the bass. It is beginning to bother him. He would like to know how to get the bass on the "take" list. Several people

indicated it would be a very difficult task since the States manage the resource. Fredricks suggested bringing the issue to the 24 September workshop so it can be thoroughly discussed. Suggestions included submitting 1-pagers for research, have anglers exercise their fishing permit rights to fish for and keep the bass, or submit a proposal through the states to get the regulations changed. The need to address this issue is recognized. **Action Item- Mackey to send Wills the Workshop information.**

## 18. Task Group updates

18.1. Fishway velocity (*Chair-Cordie, Fredricks, Lorz, Meyer, Mackey*).

18.2. Lamprey (*Chair-Cordie*)

18.2.1. Ten year plan going through review. The Tribes restoration plan is coming out for review on 15 September. The information is on their website. NWD is setting up meetings with the Tribes to compare the USACE plan with the Tribal plan.

18.3. PH2 VBSs (*Chair- Hausmann, Benner, Fredricks, Klatte, Lorz, Mackey, Meyer, Wills*). Meeting from 1230-1300 after FPOM.

18.3.1. Please see meeting minutes attached after the FPOM calendar.

18.4. Pinnipeds (*Chair-Stansell, Bettin, Benner, Brown, Fredricks, Hausmann, Kruger, Stephenson, Richards, Wills*)

18.5. SMP. (*Chair- Dykstra, Hurson, Bailey, ODFW, WDFW, NOAA, USFWS, FPC*)

18.6. TIES (*Chair-Klatte*) The group will meet in September.

18.7. Water Quality (*Chair- Klatte*)

19. Water forecast. [www.nwrfc.noaa.gov/water\\_supply/ws\\_fcst.cgi](http://www.nwrfc.noaa.gov/water_supply/ws_fcst.cgi)

## 20. Other.

20.1. Bettin mentioned that the TDA spill table in the FPP was not the complete table. He would like to have the complete, updated spill table sent to the Control Room operators.

## 21. FPP proposed changes.

21.1. BON sturgeon language. (incorporates changes from May 2008 mtg)

21.2. BON 2.4.2.2.n.1 relocation.

21.3. TDA and JDA velocity measurement language.

21.4. Appendix G- BON protocols for holding lamprey.

21.5. BON shad passage mode criteria.

21.6. Appendix A- increasing the 72 hour heat run time.

21.7. JDA 2.5.1.2.b.1 weir depth criteria.

## 22. FPP approved/rejected changes from March 2008- present.

22.1. LGS spill pattern. **Approved** at the April FPOM.

22.2. LMN spill pattern. **Approved** at the April FPOM.

22.3. MCN unit priority. **Approved** at the April FPOM.

22.4. MCN spill pattern. **Approved** at the April FPOM.

22.5. JDA SMF PIT tag shutdown. **Approved** at the April FPOM.

22.6. TDA ITS closure. **Approved** at the April FPOM

22.7. BON 50K dates. **Approved** at the April FPOM.

22.8. JDA turbine unit 5. **Approved w/changes** at the May FPOM.

22.9. JDA SMF PIT tag shutdown date. **Approved** at the May FPOM.

22.10. Voluntary v involuntary spill definitions. RCC recommended against including these definitions in the FPP at the June FPOM.

22.11. ICH 1% tables. **Approved** at the June FPOM.

22.12. TDA spill pattern change. **Approved** at the June FPOM.

- 22.13. App. G- BON protocols section 4.2. **Approved w/ changes** at the July FPOM.
- 22.14. App. G-BON picket lead operations at high temps. **Rejected** at 16 July meeting.
- 22.15. App. G- BON protocols for trapping lamprey at water temps of 70°-72°F. **Approved** via e-mail coordination in early August.

**23. Adjourned at 1205. Next Meeting-** 11 September at NOAA Fisheries, Portland Oregon.

**24. Finalized results from this meeting.**

- 24.1. FPOM agreed to the proposed plan for operating the JDA SMF PIT tag detection through 30 November.
- 24.2. FPOM created a new SMP task group.
- 24.3. FPOM agreed with the 25 August outage at BON. Powerhouse priority will switch to PH1 at midnight on 25 August.
- 24.4. FPOM approves cancelling the mid-season ROV inspection at BON, instead of shutting down the WS fishway at the peak of the Fall chinook run.
- 24.5. FPOM approves lowering the Bradford Island ladder on 18 August to get the metal off the fish crowder.
- 24.6. FPOM did not approve the Bradford Island transformer pad during this time of year. They recommended all noisy work be done in one night or the contractor can start working in November or winter maintenance season.
- 24.7. FPOM says ok to dewatering the BON ITS starting 15 October. Screens still need to be installed on 15 September.
- 24.8. FPOM okays a dive inspection on the BON BGS for early October, before the ITS goes out of service, this year but expects these types of dives to be scheduled during winter maintenance in the future.
- 24.9. FPOM would like USACE to paint the galvanized grates to reduce the rate of leaching, if the water samples come back higher than the threshold of concern in the zinc studies (.026 mg/l)
- 24.10. FPOM says MCN can do their fishway repairs during the normal winter maintenance period.
- 24.11. FPOM agrees with the T1 work at LMN. It will result in all flow going through the spillway.

**25. The following documents were provided or discussed. They are included in the minutes.**

- 25.1. *Agenda, Fish Passage O&M Coordination Team.*
- 25.2. *Jack length memo.*
- 25.3. *BON ROV coordination e-mail.*
- 25.4. *BON junction pool transformer pad information.*
- 25.5. *NWW fish truck release site SOP.*
- 25.6. *McNary Fish morts*
- 25.7. *FPP change forms.*
- 25.8. *FPOM Calendar.*

July 24, 2008

**MEMORANDUM**

**To:** FPOM

**From:** Jeff Fryer, CRITFC

**Re:** Criteria for determining jacks

Based on our sampling at the Bonneville Dam Adult Fish Facility since 1987, it appears that 59.0 cm (22.23") may be the best cutoff length for designating jacks at adult fish viewing windows. To determine this, I compiled all data for Chinook sampled and tested various lengths between 55.0 and 61.5 cm to differentiate jacks by length and compared to that actually estimated using scales. I then computed the percentage correctly aged as the number of Age 0.1, 0.2, 1.1, and 1.2 fish correctly aged using length divided by the total number of fish of those age classes sampled. Results of this analysis are in Table 1, with the highest percentages for each year highlighted. The next to last row gives the mean percentage misclassified over all years. The final row gives the total number of years that that particular length was optimum. For both of these statistics, the optimum was 59.0 cm. However, the mean percentage misclassified varied by less than one percentage point between 56.5 and 61.0 cm.

I ran a similar analysis for only spring Chinook (defined as passing Bonneville Dam prior to June 1) and came up with 60.0 cm (23.6") as being optimum in the largest number of years, but 59.5 (23.4") as the lowest mean percentage misclassified over all years. The mean percentage misclassified varied by less than half of one percentage point between 56.0 and 61.0 cm.

In interpreting this data, note that the measuring we are doing is likely to yield different measurements than that estimated by fish counters at mainstem dams. Our measurements likely slightly underestimate fish length because we do not put the fish flat on a measuring board. Rather, we hold the fish against the side of the tank and look at a ruler located flat on the top of the tank. It is likely that the fish sag slightly (particularly large fish), resulting in our measurements being biased low. Even for sockeye, which are typically smaller than Chinook jacks, we find that fish length estimated at the Bonneville Dam AFF is typically 0.5-1.5 cm less than that measured at Wells and Tumwater dams where the fish are placed on measuring boards. Some of this may be attributable to the elongated snout that male sockeye get as they mature, however I suspect that some is also attributable to measurement error at Bonneville Dam.

Visual estimation of length at mainstem dam fish viewing windows also presents problems. The further away from the window the fish is, the smaller it is going to look relative to the reference lines attached to the window. Also, a fish at an angle not parallel to the viewing window is going to look smaller. Therefore, the number of jacks is likely to be overestimated by visual counts.

In summary, both the visual estimate and our estimate are likely underestimating the length of fish by varying degrees. This suggests that setting a length even larger than that suggested by our data may result in a better jack estimate using visual counts. However, the difference in jack estimates based on setting a length (as measured at the AFF) anywhere between 56.0 cm and 61.0 cm is small.

Table 1. Percentage of Chinook salmon correctly classified by length, with the minimum length to be considered a two ocean fish varying between 55.0 and 61.5 cm, by year (1987-2007). (Note that summer Chinook sampling did not begin until 1990 and fall Chinook sampling did not begin until 1997.)

Year	Lower length limit (cm) for designation as two-ocean fish													
	55.0	55.5	56.0	56.5	57.0	57.5	58.0	58.5	59.0	59.5	60.0	60.5	61.0	61.5
1987	93.8%	93.8%	95.4%	96.9%	96.9%	96.9%	96.9%	96.9%	96.9%	98.5%	98.5%	96.9%	95.4%	95.4%
1988	95.8%	96.6%	97.9%	96.6%	95.8%	95.0%	94.5%	95.0%	95.7%	95.4%	95.4%	95.4%	95.4%	95.0%
1989	98.1%	98.1%	98.1%	98.1%	98.1%	98.1%	98.3%	98.5%	99.0%	98.5%	98.1%	98.1%	98.1%	97.6%
1990	98.1%	98.3%	98.5%	98.3%	98.3%	97.9%	97.8%	97.6%	98.4%	97.5%	97.5%	97.2%	97.0%	96.7%
1991	92.2%	93.1%	93.1%	94.0%	94.3%	94.9%	94.6%	94.9%	95.0%	94.9%	95.2%	94.9%	95.2%	94.6%
1992	97.7%	98.1%	98.1%	98.7%	98.7%	98.9%	99.0%	99.0%	98.8%	98.5%	98.1%	97.7%	97.9%	97.5%
1993	97.0%	97.0%	97.0%	97.7%	97.7%	98.0%	97.5%	97.3%	97.8%	96.8%	96.8%	96.6%	96.6%	95.9%
1994	98.1%	98.1%	98.1%	98.1%	98.1%	98.1%	98.3%	98.3%	98.5%	97.8%	97.4%	97.4%	96.6%	96.6%
1995	92.7%	93.1%	94.2%	94.4%	94.6%	94.8%	95.1%	95.1%	95.2%	95.7%	95.9%	96.4%	96.4%	96.4%
1996	97.3%	97.3%	97.6%	98.0%	98.1%	98.1%	98.3%	98.4%	98.8%	98.6%	98.8%	99.0%	98.7%	98.7%
1997	98.5%	98.5%	98.5%	98.5%	98.7%	98.7%	98.8%	98.5%	99.2%	98.6%	98.7%	98.6%	98.4%	98.3%
1998	95.7%	96.1%	96.3%	96.0%	95.7%	95.7%	94.9%	94.6%	96.3%	94.8%	94.9%	94.2%	94.2%	93.6%
1999	94.3%	95.1%	95.4%	96.2%	96.4%	96.8%	97.1%	97.3%	97.8%	97.7%	97.8%	98.1%	98.0%	97.9%
2000	92.7%	93.6%	94.1%	95.0%	95.2%	95.9%	95.8%	96.7%	97.6%	97.1%	97.0%	96.9%	96.7%	96.3%
2001	94.1%	94.8%	94.8%	95.7%	96.1%	96.3%	96.4%	96.7%	96.6%	97.1%	97.0%	97.1%	97.2%	96.8%
2002	96.9%	96.8%	96.6%	97.1%	97.1%	97.0%	96.9%	96.7%	98.0%	96.4%	96.3%	96.1%	95.8%	95.5%
2003	92.9%	93.3%	93.8%	93.9%	94.8%	95.2%	95.4%	96.3%	97.0%	95.8%	95.5%	95.8%	96.0%	95.8%
2004	93.7%	93.9%	94.3%	94.4%	94.2%	94.7%	94.8%	95.1%	95.9%	94.8%	94.5%	94.0%	93.7%	92.9%
2005	98.4%	98.5%	98.4%	98.5%	98.6%	98.5%	98.5%	98.4%	98.9%	98.7%	98.6%	98.4%	98.2%	98.1%
2006	95.8%	95.9%	96.3%	96.5%	96.4%	96.8%	96.5%	96.6%	96.5%	96.3%	96.1%	95.9%	95.8%	95.6%
2007	86.0%	87.9%	88.5%	90.0%	90.3%	91.6%	92.0%	93.0%	93.7%	93.3%	93.7%	93.9%	93.6%	93.7%
<b>Mean</b>	95.2%	95.6%	95.9%	96.3%	96.4%	96.6%	96.5%	96.7%	97.2%	96.8%	96.8%	96.6%	96.4%	96.1%
Years optimum length	0	0	2	0	0	2	1	1	9	1	2	4	3	0

Table 2. Percentage of spring Chinook salmon correctly classified by length, with the minimum length to be considered a two ocean fish varying between 55.0 and 61.5 cm, by year (1987-2007)

	Lower length limit for designation as two-ocean fish												
	55.0	55.5	56.0	56.5	57.0	57.5	58.0	58.5	59.0	59.5	60.0	60.5	61.0
1987	93.8%	93.8%	95.4%	96.9%	96.9%	96.9%	96.9%	96.9%	96.9%	98.5%	98.5%	96.9%	95.4%
1988	95.8%	96.6%	97.9%	96.6%	95.8%	95.0%	94.5%	95.0%	95.4%	95.4%	95.4%	95.4%	95.4%
1989	98.1%	98.1%	98.1%	98.1%	98.1%	98.1%	98.3%	98.5%	98.8%	98.5%	98.1%	98.1%	98.1%
1990	98.5%	98.5%	98.7%	98.5%	98.5%	98.2%	98.0%	97.7%	97.6%	97.6%	97.2%	96.7%	96.6%
1991	95.5%	95.5%	95.5%	96.3%	95.9%	96.3%	95.9%	96.3%	96.3%	95.9%	96.3%	95.5%	95.5%
1992	98.5%	98.8%	98.8%	99.0%	99.0%	99.0%	99.3%	99.3%	99.3%	99.0%	99.0%	98.5%	98.8%
1993	97.6%	97.6%	97.3%	98.3%	98.6%	98.6%	98.6%	98.6%	99.0%	99.0%	99.0%	99.0%	99.0%
1994	99.0%	99.3%	99.7%	99.7%	99.7%	99.3%	99.3%	99.3%	99.0%	99.0%	98.4%	98.4%	97.0%
1995	96.1%	96.5%	97.4%	97.4%	98.1%	98.1%	98.4%	98.7%	98.4%	98.7%	98.7%	98.4%	98.4%
1996	98.9%	98.9%	99.2%	99.3%	99.2%	99.3%	99.3%	99.5%	99.5%	99.5%	99.5%	99.5%	99.3%
1997	99.7%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	99.7%	99.7%	99.7%	99.7%	99.7%	99.6%
1998	98.3%	98.3%	99.0%	99.0%	99.0%	99.0%	99.0%	98.6%	98.6%	98.6%	98.6%	98.3%	98.6%
1999	98.5%	99.0%	99.2%	99.7%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%
2000	98.2%	98.2%	98.5%	99.0%	99.0%	99.2%	99.3%	99.4%	99.6%	100.0%	100.0%	100.0%	100.0%
2001	98.0%	98.5%	98.6%	99.3%	99.5%	99.6%	99.5%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%
2002	99.5%	99.5%	99.5%	99.6%	99.6%	99.6%	99.6%	99.6%	99.8%	99.8%	99.8%	99.8%	99.8%
2003	97.3%	97.6%	98.5%	98.8%	99.1%	99.7%	99.4%	99.7%	98.8%	98.5%	98.2%	98.2%	98.2%
2004	98.1%	97.9%	97.9%	97.8%	97.9%	97.8%	97.8%	97.8%	97.6%	97.6%	97.1%	96.7%	96.6%
2005	99.1%	99.1%	99.1%	99.4%	99.6%	99.6%	99.6%	99.4%	99.6%	99.6%	99.4%	99.1%	99.1%
2006	99.1%	99.1%	99.3%	99.1%	99.1%	98.9%	98.4%	98.4%	98.4%	98.2%	98.2%	98.1%	98.1%
2007	93.3%	94.5%	94.9%	96.4%	96.7%	97.4%	97.2%	97.5%	97.4%	97.7%	97.8%	97.8%	97.7%
Mean	97.7%	97.9%	98.2%	98.5%	98.5%	98.6%	98.5%	98.6%	98.5%	98.6%	98.5%	98.3%	98.1%
Years													
Optimum													
Length	1	0	5	3	4	7	5	7	9	9	10	7	4

From: Mackey, Tammy M NWP Sent: Wed 8/13/2008 4:21 PM  
To: 'Fredricks, Gary'; 'Lorz, Tom'; 'Rick Kruger'; 'Wills, David'; 'Kiefer,Russell'; 'Stephenson, Ann'; Feil, Dan H NWD; Boyd, Scott W NWD; 'Bettin, Scott'; 'Sweet, Jason'  
CC: Klatte, Bernard A NWP; 'Benner, Dave'; Dykstra, Timothy A NWW; Hausmann, Ben J NWP; Rerecich, Jonathan G NWP; Langeslay, Mike J NWP; Schwartz, Dennis E NWP  
Subject: OFFICIAL COORDINATION: BON mid-season ROV inspection

Please be prepared to discuss this at FPOM tomorrow. It is not on your current agenda but will be covered under OTHER items.

Due to conflicting schedules, the 12 August ROV inspection for BON was cancelled, and the 25 August date didn't work. The new proposed date is 10 September.

Project Fisheries would like to suggest cancelling the mid-season dive, for this year, for the concerns cited below.

1. The purpose of having the ROV inspection in early August is to catch the brief lull between runs. The fewest number of fish would be impacted by having a ladder off for half the day. The 10 September date is particularly problematic since the peak of the fall chinook run tends to arrive at BON between 8-13 September. It is at this time of year we tend to split flows at BON due to the numbers of fish in the WS ladder. Is it appropriate to take out either ladder during, what historically has been, the peak of the fall chinook run?
2. September is already outside the mid-season. The end of September brings us nearly two months until the start of winter maintenance season. If we are already that close to shutting down the ladders, would it make sense to do the ROV inspection in September then again in January?
3. All ladders will be thoroughly inspected by ROV or in person this winter. Cascades Island will be completely dewatered and there is talk of taking out parts of the PH1 collection channel for inspection and repair. At this time there are not any concerns with the condition of the grates in the fishway. There is no evidence of grate displacement or other visual changes that might indicate a grate problem. It is rare that problems are found during mid-season inspections. That isn't to say mid-season inspections are not important but given the logistical problems with the 2008 mid-season inspection, the odds are, missing this one wouldn't be catastrophic.

Given all of this, would you all be willing to allow BON to forego the mid-season inspection this year? It should be noted, the scheduling conflicts that occurred this year with line outages and unit outages, should not occur next year. The importance of getting the mid-season inspection done when scheduled has been passed along.

Thank you,  
Tammy

Have a Wonderful Wednesday!  
Tammy Mackey  
Fisheries Biologist  
503-808-4305 District Office  
541-374-4552 Bonneville Office  
Tammy.M.Mackey@usace.army.mil

**O'Neill Electric Proposal for Transformer Pad Work  
Within 20 ft. of Bonneville Dam Bradford Island  
A/B Fish Ladder**

**--Proposal Date 7/29/08**

- 1.** Saw cut asphalt around perimeter of site of new 7'6" x 7'6" concrete pad for a 13.8kV/2.4kV transformer. Cut shall extend at least 16" beyond the footprint of the new concrete pad. The saw cut will come within approx. 18 ft. to 19 ft. of the Bradford Island A/B Fish Ladder. The pad site is below and to the north the main roadway bridge crossing the A/B Fish Ladder near the Bradford Island Visitors' Center. The Contractor shall peel off and remove the underlying asphalt materials after the cut. Contractor shall then remove the underlying soil materials to a depth of at least 12". Time estimate for this work is one 10 hr shift.
- 2.** Fill the resulting hole from above activity with leveling coarse material. Use a plate compactor to prepare the fill material for the new transformer pad. Time estimate for this work is one 10 hr shift.
- 3.** Form re-bar for the concrete pad and put concrete forms in place. Time estimate for this work is one 10 hr shift.
- 4.** Concrete pour for the new transformer pad which will be approximately 18" to 24" in thickness for the 7'6" x 7'6" pad footprint. Thickness will vary because of ground slope. Time estimate for this work is one 10 hr shift.
- 5.** After concrete pad has cured and forms are removed, exposed area around the pad shall be repaired with hot patch asphalt. Time estimate for this work is 5 hrs.

### **Bonneville Security Procedures - Truck Operations**

1. Call Bonneville Control Room Operations 30 minutes prior to ETA (Estimated Time of Arrival). Phone: (541) 374-8338.
2. Explain what you are doing and where you plan to go.
3. Upon arrival, call Bonneville Control Room Operations again.
4. Proceed to Truck Pad, unlocking the back gate if necessary.
5. Follow Truck Pad operating procedures and release fish into the flume.
6. Shut off and secure Truck Pad systems, following Truck Pad Operating Procedures.
7. Lock gate behind you when leaving the facility (if you are the only person there).
8. Notify Control Room Operations when departing Bonneville Project.

#### Notes:

Project Biologists at Lower Granite, Little Goose, Lower Monumental and McNary will be issued a key for the back gate lock at the Bonneville Smolt Monitoring Facility.

Truck Drivers are required to wear COE issued identification badges when on the Bonneville smolt monitoring facility premises. Corps employees do not need temporary or permanent Bonneville Dam - issued visitor passes for this activity.

### **Bonneville Truck Pad Operating Procedures**

1. **MAKE SURE THE FOLLOWING VALVES AND ELECTRICAL PANEL ARE IN THEIR CLOSED OR OFF POSITIONS.**
  - a. Drain valve at the pump,
  - b. Hose bib at pipe stand,
  - c. 4" stainless steel butterfly valve at pipe stand,
  - d. Electrical Panel located by pipe stand.
2. Open the 4" cast iron gate valve located under the flume platform. Be sure to turn this valve completely open.
3. Open hose bib to fill water supply pipe and eliminate air in system. Once a steady stream is established through the hose bib, the hose bib can be turned off.
4. Place 4" hose in desired location outside the fish holding tank **BEFORE PROCEEDING** to step 4a. This will allow water to discharge any material, metals, sediments etc. that may have settled in the water supply line.
  - a. Open 4" stainless steel valve at pipe stand to start flow through 4 inch line. In most cases the 15' of head provides more than adequate flow to flush fish and rinse the tanker. Once adequate time has passed for water to flush out any material, the 4 inch line may be used inside the fish tank and the flume system.
  - b. **If using pump motor**, make sure electrical throw switch is in on position, then press green start button to pressurize the 4" line. Note: when the pump is turned on, the increased hose discharge can erode the truck pad gravel.
5. When finished using the 4" hose, press the red stop button and de-energize panel by placing throw switch in the off position.
6. Close the 4" cast iron gate valve located under the flume platform. Be sure to turn this valve completely closed.
7. Open the drain valve at the pump to drain the 4" water supply line and associated piping. The hose bib at the pipe stand can be opened if desired.
8. The system should now be completely dry except for the water pump itself. To winterize and drain the pump, remove the drain plug at the base of the pump. Store the drain plug in designated safe location.



REPLY TO  
ATTENTION OF:

DEPARTMENT OF THE ARMY  
WALLA WALLA DISTRICT, CORPS OF ENGINEERS  
201 NORTH THIRD AVENUE  
WALLA WALLA WA 99362-1876

Office of Counsel

August 6, 2008

MEMORANDUM FOR

SUBJECT: Memorandum Concerning Fish Mortalities at McNary Dam

On the morning of August 4, McNary Dam Juvenile Fish Facility personnel discovered numerous juvenile fish mortalities in raceway 7. Nearly all of these fish were subyearling fall Chinook, but it is estimated less than 1% of these were fall Chinook listed under the Endangered Species Act. Upon investigation, approximately 175 fish were trapped in a 4" perforated PVC pipe located at the north upstream corner of the raceway. Apparently juvenile fish in raceway 7 would jump at the incoming water from the flume and became trapped inside the uncovered PVC pipe. The project personnel believe this cover was missing at the start of juvenile fish collection at McNary Dam, which began on July 16. The 175 fish mortalities accumulated between the beginning of collection and discovery of the situation on August 4. The perforated PVC pipe was covering a 2" diameter metal pipe that was periodically used in the past as a siphon for research purposes.

Background: At the juvenile transport collector projects (Lower Granite, Little Goose, Lower Monumental, and McNary Dam), raceways are used to hold collected fish before they are loaded for transport below Bonneville Dam. In 2008 at McNary Dam, the Technical Management Team (TMT) recommended initiation of transport beginning on July 16, as conditions were no longer "spring like." Fish collection began the afternoon of July 16 and the first fish were loaded and barged downstream on July 17. In accordance with the Fish Passage Plan (FPP), the Corps has been collecting fish every day and loading barges for transport every other day.

Estimated listed fish mortalities: Corps personnel have attempted to estimate the number of listed species mortalities. The Corps has referred to a memo from of NMFS entitled "*Revised Estimation of Percentages for Listed Pacific Salmon and Steelhead Smolts Arriving at Various Locations in the Columbian River Basin in 2007.*" (John Ferguson, September 11, 2007).<sup>1</sup> From the information in this memo, the Corps has extrapolated an approximate estimate of the number of listed fish mortalities attributed to the situation at McNary Dam, and has determined that two listed Chinook were lost.

This number is below the mortality provided for in the Corps' juvenile transport permit.

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<sup>1</sup> Since NMFS has not yet published the 2008 memo, the 2007 memo is the best available information on numbers of listed fish to be expected at any project.

CENWW-OC

SUBJECT: Memorandum Concerning Fish Mortalities Discovered at McNary Dam

Corrective Action: Project personnel have removed both the PVC pipe and metal pipe from raceway 7 so there is no longer a place for fish to become trapped. There is no similar siphon at any other project. The other raceways have been surveyed to confirm that fact and ensure that this problem will not reoccur.

**FPP Change Forms**

\*\*\*\*\*  
\*\*\*\*\*

**Change Request Number:**

**Date:** April 16, 2008

**Proposed by:** Bonneville Project

**Location of Change-** BON 5.4.6-5.4.7 and BON 6.5.1-6.5.2 (sections re-numbered as required)

**Proposed Change:**

5.4.6. *From 1 December through 30 April, non-priority turbine units will not be voluntarily scheduled for extended outages. Priority units are 1, 10, 11, and 18.*

5.4.7. *From 1 December through 30 April, turbines which have been idle/out of service for more than 12 hours will be started by slow rolling the unit after manually tipping turbine blades from flat to steep back to flat.*

After including the two sections above as 6.5.1 and 6.5.2-

The current 6.5.2 will be re-numbered to 6.5.4. Add *“bottom tail logs should be placed first.”*

The current 6.5.3 will be re-numbered to 6.5.5. Add *“It is recommended adjacent units be operated to flush fish prior to placing tail logs in the unit to be OOS. It is also recommended that units located adjacent to OOS units not be voluntarily taken out of service until the adjacent units return to service.”*

**Reason for Change:** To better protect sturgeon in the draft tube and turbine environment.

**Comments from others:** FPOM doesn't want priority units OOS during fish passage season.

\*\*\*\*\*

**Change Request Number:**

**Date:** 6/4/2008

**Proposed by:** Project Fisheries

**Location of Change:** BON-18 2.4.2.2.n.1

**Proposed Change:** 2.4.2.2.n.1 says “coordinate gateway cleaning with smolt monitoring personnel operating the downstream juvenile sampling facilities”. It should be moved to 2.4.2.2.m.3, which is the section on what to do when cleaning gateways.

**Reason for Change:**

2.4.2.2.n.1 is in the wrong location.

\*\*\*\*\*

**Change Request Number:**

**Date:** 5/27/2008

**Proposed by:** The Dalles John Day Project

**Location of Change-** TDA 2.5.1.2.4 and JDA 2.5.1.2.a.4

**Proposed Change:** Omit from TD- ‘Water velocities will be measured at one location directly and monitored during fishway inspections to verify channels are operating within velocity criteria’.

Add to TD and JD – ‘Water velocities will be monitored weekly during as part of the fishway inspection program. Project biologist will determine method. Results will be provided in weekly status report. (JD did not have the same wording as TD)

**Reason for Change:** Discussion and resolution determined through FPOM velocity task group

\*\*\*\*\*

**Change Request Number:**

**Date: June 30, 2008**

**Proposed by:** Tom Lorz CRITFC

**Location of Change-** FPP G-2, 4.2

**Proposed Change:** Change 4.2. *Sampling will be permitted 1-day per week from 0600- 1000 when water temperatures exceed 70°F to allow for mandatory steelhead sampling to Sampling will be permitted up to 4 days per week from 0600-1000 when water temperatures are between 70°F and 72°F.*

**Reason for Change:** To better meet the needs for data used by the US v Oregon parties and for the US/Canada Treaty fisheries groups in setting harvest limits and make management decisions. Currently large portions of the run are missed during these temperature outages making it difficult to estimate ocean abundance and stock specific escapements for fall Chinook for different critical population groups that drive decision by the harvest managers.

**Comments from others:** FPOM requested the hours be kept the same (0600-1000). An upper limit temperature needs to be added as well. This request doesn't include picket lead operation.

**Final action:** Mackey made the changes to the request. FPOM approved the increase in sample days at BON.

\*\*\*\*\*

**Change Request Number:**

**Date:** 7/22/2008

**Proposed by:** Jon Rerecich

**Location of Change-** Appendix G BON AFF trapping protocols 2.3.

*Anytime lamprey are held overnight in the AFF, researchers will notify Project Fisheries and the Control Room.*

**Proposed Change:** Restrict holding times for lamprey to 48 hours.

*Lamprey may be held up to 48 hours in the AFF. Researchers will notify Project Fisheries and the Control Room whenever lamprey are held.*

**Reason for Change:** To minimize holding lamprey too long. In 2008 there was a mortality due to holding over a weekend.

\*\*\*\*\*

**Change Request Number:**

**Date:** 7/22/2008

**Proposed by:** BON Fisheries

**Location of Change-** Appendix G BON AFF trapping protocols 4.

*Trapping will not occur when fish ladder water temperatures meet or exceed 70°F as measured in the brail pool. The only exception is for US v Oregon requirements.*

**Proposed Change:** Allow lamprey trapping when water temps are between 70°F and 72°F *Salmonid trapping will not occur when fish ladder water temperatures meet or exceed 70°F as measured in the brail pool. The only exception is for US v Oregon requirements and for nighttime lamprey trapping.*

**Reason for Change:** According to lamprey researchers, handling lamprey at the elevated temperatures does not seem to stress them as it does salmonids.

\*\*\*\*\*

**Change Request Number:**

**Date:**8/6/08

**Proposed by:** BON Project Fisheries

**Location of Change:** BON Section 2.5.1.2.a

*Maintain the water depth over fish ladder weirs at 1' +/- 0.1' during non-shad passage season (August 16 through May 14) and 1.3' +/- 0.1' during the shad passage season (May 15 through August 15).*

**Proposed Change:** Remove the dates and adjust to shad passage mode based on the numbers of shad passing.

*Maintain the water depth over fish ladder weirs at 1' +/- 0.1' during non-shad passage season (<5,000 shad/day/count station) and 1.3' +/- 0.1' during the shad passage season (> or = to 5,000 shad/day/count station).*

**Reason for Change:** It makes more sense to base shad passage mode on shad numbers passing. It also makes BON criteria consistent with TDA shad criteria.

**Comments from others:** TDA Fisheries said they base theirs on numbers of shad passing per day per count station, not project wide. That change has been made to the change form.

\*\*\*\*\*

**Change Request Number:**

**Date:** 8/13/2008

**Proposed by:** JDA Project Fisheries

**Location of Change-** JDA 2.5.1.2.b.1

**Proposed Change:** Remove the following language "Testing will be conducted to determine if the use of one entrance at greater than 8' depth allows better passage conditions. (Study plan will be developed through the AFEP Studies Review Work Group.)"

**Reason for Change:**

Remnant information from previous years FPPs. Decision was made through FPOM to operate 1 entrance weir at >8'

**Comments from others:**

# July 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 FPAC	2 TMT	3	4   Independence Day	5
6	7 Pinniped Task Group	8 FPAC	9	10 FPOM Meeting- NOAA	11	12
13	14	15 FPAC	16 TMT	17 SCT	18	19
20	21	22 FPAC	23 TMT NWW FFDRWG	24 NWW FFDRWG	25	26
27	28	29 FPAC	30	31		

# August 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 FPAC TDA ROV	6 TMT JDA ROV	7	8	9
10	11	12 FPAC AFEP pre-proposals sent out	13 TMT	14FPOM- BON Velocity and VBS task groups	15	16
17	18	19 FPAC	20 TMT	21 SCT	22	23
24	25	26 FPAC AFEP pre-proposal review	27 TMT AFEP pre-proposal review	28 NWP – FFDRWG AFEP pre-proposal review	29	30
31  Spill Season ends						

# September 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1  Labor Day	2 FPAC  B2CC closed.	3 TMT	4	5	6
7	8	9 FPAC	10 TMT	11 FPOM Meeting- NOAA	12 NWW FFDRWG	13
14	15	16 FPAC	17 TMT	18 SCT	19	20
21	22	23 FPAC AFEP pre-proposal comments due	24 TMT	25	26	27
28	29	30 FPAC				

MEMORANDUM FOR THE RECORD

Subject: DRAFT Minutes for the 14 August 2008 VBS task group meeting.

The meeting was held in the Bonneville Dam Auditorium. In attendance:

Last	First	Agency	Office	Email
Benner	David	FPC	503-230-7564	<a href="mailto:dbenner@fpc.org">dbenner@fpc.org</a>
Clugston	David	USACE	503-808-4751	<a href="mailto:David.a.clugston@usace.army.mil">David.a.clugston@usace.army.mil</a>
Cordie	Bob	USACE	541-298-7406	<a href="mailto:Robert.p.cordie@usace.army.mil">Robert.p.cordie@usace.army.mil</a>
Fredricks	Gary	NOAA	503-231-6855	<a href="mailto:Gary.fredricks@noaa.gov">Gary.fredricks@noaa.gov</a>
Hausmann	Ben	USACE	541-374-4598	<a href="mailto:Ben.j.hausmann@usace.army.mil">Ben.j.hausmann@usace.army.mil</a>
Lee	Randy	USACE	503-808-4876	<a href="mailto:Randall.t.lee@usace.army.mil">Randall.t.lee@usace.army.mil</a>
Lorz	Tom	CRITFC	503-238-3574	<a href="mailto:lor@critfc.org">lor@critfc.org</a>
Klatte	Bern	USACE	503-808-4318	<a href="mailto:Bernard.a.klatte@usace.army.mil">Bernard.a.klatte@usace.army.mil</a>
Mackey	Tammy	USACE	503-808-4305	<a href="mailto:Tammy.m.mackey@usace.army.mil">Tammy.m.mackey@usace.army.mil</a>
Meyer	Ed	NOAA	503-230-5411	<a href="mailto:Ed.meyer@noaa.gov">Ed.meyer@noaa.gov</a>
Rerecich	Jon	USACE	541-374-7984	<a href="mailto:Jonathan.g.rerecich@usace.army.mil">Jonathan.g.rerecich@usace.army.mil</a>
Schwartz	Dennis	USACE	503-808-4779	<a href="mailto:Dennis.e.schwartz@usace.army.mil">Dennis.e.schwartz@usace.army.mil</a>

What is the purpose of the task group? Developing cleaning criteria. How to operate the units and screens if this happens in the future. What can be done to make the gatewells more hospitable to Spring Creek fish?

Fredricks would like to see drawdown criteria and Project capability criteria. This should be clear cut and guide the Project on when to pull screens. There needs to be re-install criteria. Prioritize the process for moving from normal cleaning to pulling screens and all of the steps in-between. This write up will need to be included in the FPP so the Region is aware of how events will progress without the Project having to wait for Regional meetings. The Project should make a call to FPOM when debris starts getting bad so the Region is aware of what may be coming though.

Klatte said Mahar is trying to put together a plan for the crews to go to five days but the union is pushing back a bit. Fredricks said it might be nice just to have five days during the critical debris times rather than year-round. Can we get a crew of volunteers who commit to coming in during peak debris season? Klatte said that is part of the union issues. It would be nice if this could be determined in advance.

Meyer said we need to really look at what point adding more man-power doesn't make sense. You don't want crews working over each other. Having a crew come in on a Saturday might be useful. If you can't go one day without cleaning, then perhaps that is the tipping point for pulling screens.

The write-up provided by BON Fisheries talked about using the drawdown criteria for re-installing screens and it needs to be part of the larger plan for dealing with debris.

Fredricks mentioned he wanted to discuss the flow up the gatewell slot as well. He said it seems we went too far and now we are killing fish. Schwartz said he wasn't so sure that was a correct statement. He has some data from Lyle Gilbreath which suggests Spring Creek seems to be the fish that have a problem but run of the river fish appear to do just fine. The data need to be analyzed further to determine where a flow-control structure would be appropriate to pursue.

Another issue is the cleaning of the fish unit trashracks and the AWS trashracks. Why isn't the new fish unit trashrake being used? Don Erickson has asked the Project to use the rake and give a good report of what is wrong with it. There are automated AWS rake plans but the Project had said they could keep up manually a few years back so the plans were shelved. It can be re-visited though.

**ACTION-** The Project will test out the fish unit rake and get back to Erickson with a detailed report. The Project will draft plans for the TIE crane schedule and the cleaning/pulling/re-installation schedule.