

MEMORANDUM FOR THE RECORD

Subject: Final Minutes for the 11 January 2007 FPOM meeting.

1. The meeting was held at the 10th floor training room, Portland District Office, USACE. In attendance:

Bailey	Randy	USACE	(503) 808-4318	Randy.bailey@usace.army.mil
Bailey	John	USACE	(509) 527-7123	John.c.bailey@usace.army.mil
Cordie	Bob	USACE	(541) 298-7406	Robert.p.cordie@usace.army.mil
Fredricks	Gary	NOAA	(503) 231-6855	Gary.fredricks@noaa.gov
Hausmann	Ben	USACE	(541) 374-4598	Ben.j.hausmann@usace.army.mil
Hevlin	Bill	NOAA	(503) 230-5415	Bill.hevlin@noaa.gov
Hurson	Dave	USACE	(509) 527-7125	Dave.f.hurson@usace.army.mil
Klatte	Bern	USACE	(503) 808-3943	Bernard.a.klatte@usace.army.mil
Lee	Randy	USACE	(503) 808-4876	Randall.t.lee@usace.army.mil
Lorz	Tom	CRITFC	(503) 238-3574	lor@critfc.org
Mackey	Tammy	USACE	(541) 374-4552	Tammy.m.mackey@usace.army.mil
Meyer	Ed	NOAA	(503) 230-5411	Ed.meyer@noaa.gov
Schwartz	Dennis	USACE	(503) 808-4779	Dennis.e.schwartz@usace.army.mil
Simmons	Mindy	USACE	(503) 808-4304	Mindy.m.simmons@usace.army.mil
Stansell	Robert	USACE	(541) 374-8801	Robert.j.stansell@usace.army.mil
Sweet	Jason	BPA	(503) 230-3349	jcsweet@bpa.gov
Swenson	Larry	NOAA	(503) 230-5448	Larry.swenson@noaa.gov
Vandernaald	Wayne	ODFW	(503) 657-2000 Ext 237	Wayne.o.vandernaald@state.or.us
Wills	Dave	USFWS	(360) 604-2500	David_wills@fws.gov
Brown	Robin	ODFW	541-757-4186 ext 242	
Barko	Kathryn	USACE	503-808-4883	
Kruger	Rick	ODFW		

2. The following handouts were distributed:

- a. Agenda, Fish Passage O&M Coordination Team
- b. 09 January 2007 Memo: ODFW Request for interagency cooperation and coordination...
- c. FPP language changes for OV-7 through OV-11, handed out by D. Hurson.
- d. Walla Walla weekly report sample, handed out by J. Bailey.
- e. O & M report for Walla Walla projects, handed out by D. Hurson.
- f. O & M report for The Dalles/John Day projects, handed out by B. Cordie.
- g. O & M report for Bonneville Dam, including weekly report sample, handed out by B. Hausmann.
- h. B2 CC Hi Q PIT final inspection – 9/21/06, handed out by D. Schwartz.
- i. TDG measurements at Bonneville Dam, handed out by K. Tackley

3. Action Items

- a. (December 2006) – D. Hurson and B. Klatte will come up with language for FPOM interactions with TMT. Language is to be sent to FPOM prior to January 2007 meeting. **STATUS:** Language submitted in a handout. Review and prepare for discussion at the February FPOM.
- b. (August 2006) – Operation Within 1% of Peak Efficiency: G. Fredricks mentioned that an individual has claimed the Corps is purposely operating outside of 1%...3-D cams are supposedly defective, along with other allegations...this person claims to have an instrument to keep turbines within 1%... B. Hevlin said it is surprising how this could come up considering all the turbine efficiency work done in the last 5-6 years...the state of the art has gone way up. Fredricks said this issue will take time to resolve. **ACTION:** Put this on next month's agenda.
- c. TDG at Bonneville Dam. **ACTION:** R. Bailey to set up a meeting with Jim Britton to discuss a monitoring plan. K. Barko will be at the February FPOM.
- d. Fish Passage plan comments. **ACTION:** Prepare for discussion at the February FPOM.
- e. JDA fish pump and gear box overhaul. B. Cordie reported JDA has contacted NWW engineers to find out about fish pump rehab activities. Hurson reported that the Walla Walla pumps took two weeks pre and post IWW period for rehab. Cordie is looking into whether the fishway needs to be OOS for pump rehab or if two pumps can be operated while working on one. There was concern about no

ladder usage and that the discharge bulkhead wouldn't seal so the ladder may need to be dewatered. If unable to work on one, an earlier outage, or extended outage will need to be coordinated. There is currently no spare pump, so this work may result in one. Bailey said there is no money in the current budget for any spares. Gear boxes are currently being overhauled. **ACTION:** Hurson to send Cordie the contract Walla Walla used.

- f. Switch Gate Seal at BON: G. Fredricks said the seal on the upper switch gate at the JBS has separated...both sides...it is coming apart...there is a lot of leakage...this needs to be addressed. **ACTION:** TDA and BON will collaborate on new seals. For this year (normal smolt monitoring) BON will beef up the fasteners and start looking at more durable seals for next year and beyond. E. Meyer requested BON look into a PLC change to allow for continuous flushing flow.
 - g. B2CC report. This report was a hand out. D. Schwartz presented the issues in the B2CC. Repairs were made at the PIT tag site. Report includes photos of spalling. R. Bailey says CRFM will repair this FY. B. Hausmann claimed the B2CC will be ready for Spring Creek release in early March.
4. Construction Updates
- a. Bonneville provided a handout. TIES removal and fish screen removal still going forward. VBS mods in U11 are a week ahead of schedule.
 - b. TDA/JDA provided a handout. New full flow PIT tag system being installed.
 - c. Walla Walla provided a handout. J. Bailey reported Lower Granite U2 and 4 are OOS and scheduled to return to service in March. G. Fredricks asked in all units will be in service for the spring. D. Hurson replied that U3 may be OOS starting in April.
5. Fishway Status
- a. Bonneville provided a handout. G. Fredricks asked if B2CC avian wires will be repaired. B. Hausmann said yes.
 - b. TDA/JDA provided a handout.
 - i. TDA. N1 entrance gate fell apart. Waiting for money, repairing now. Engineers recommend changes to keep the leaves from separating. Should be back in service by 01 March. Will have two weirs in south, one in north with no spares. Entrance differential is about 0.3'. Would like to purchase a spare weir. Should money go to a new design e.g. less maintenance required? Something to consider is the shaped entrances similar to the Mid-C dams. G. Fredricks stated the north ladder has many issues and this weir design should be tied into a comprehensive overview. He didn't recommend putting a lot of money into the ladder is a new design is coming in a few years. R. Lee said the scoping work is going on now for the north ladder so EVERYTHING is on the table.
 - ii. TDA. EastFishway is getting new grating. There are no spacing changes for lamprey due to the request to go to 3/4" came the same day as the contract was let. Would have required a hydraulic evaluation too.
 - iii. TDA. ITS chaingate 5-3 is stuck. Divers coming in February to inspect. May need to torch the gate out which would leave it open all fish passage season. G. Fredricks said the three gates open on the west, two on the east and 5-3 would be ok for the spring but maybe not for the summer.
 - iv. TDA. Avian abatement- hazing but no lethal take again. (same at all projects. Lethal take not authorized.)
 - v. JDA. North fishway new trashrack was found to be stuck about 8' above the sill. The rack was built incorrectly so the old trashrack was put back in place. Original trashrack has 7/8" spacing, but B. Cordie didn't seem concerned about lamprey coming in through the trashrack since the AWS was wide open all season and they found no lamprey under the diffuser grating during dewatering.
 - c. Walla Walla provided a handout.
6. Research.
- a. Bonneville provided a handout.
 - b. No research at TDA/JDA
 - c. Walla Walla provided a handout. Ice Harbor high velocity separator debris tests postponed until warmer weather thaws the debris.
7. Task Groups. Nothing to report.
8. Cascades Island ladder TDG. K. Barko provided a handout. She talked about where she took her TDG tests and discussed some of her results. Found gas peaking at night and waning during the day at the

main dam ladder entrances. This was attributed to the "dilution" of the gas by attraction flow through Bays 1 and 18. Test sites in the fishway entrances and further up the ladder showed gas levels ranging from approx. 112% to 120%. Discussion about the AWS fish valves and how the water moves through the tainter valves, drawing in air as it goes. K. Barko said she did not look at FV1-1, but it is anticipated that there is a similar TDG issue in the PH1 collection channel since the valve is the same design as the main dam fishways. G. Fredricks would like to see measurements taken just inside the entrance gates. D. Schwartz mentioned the main dam fishways are in manual, there are fluctuations in TW and many other variables that complicate things. Was decided that there needs to be baseline data before going forward with any modifications or system operation changes. Since the Corps is currently exceeding state water quality standards, a waiver will be needed. FPOM agreed we would find high gas levels due to the unique spillway configuration at BON. E. Meyer wondered if it is preliminary to start looking at engineering. D. Hurson wants to know how big of a problem the gas really is. G. Fredricks asked what the effects are on lamprey. In the end, it was decided a study should start looking at gas issues where the diffusers start. More discussion on this will occur in February.

9. Bonneville Powerhouse One STS Plan. There is a meeting scheduled for 19 January to discuss sluiceway mods and cost. FPOM raised several questions, which will hopefully be answered at that 19 January meeting. If work was delayed, what about adult fallback? When work starts- what about mothballed DSM and broken south gate? Region agreed in summer 2006 to the ITS mods. Screen removal was part of that agreement. Project started screen removal. Equipment has been surplused, scrapped or modified for PH2. South gate repair not scheduled or funded at this time. Have the bulkheads for the ITS been HSS inspected? FPOM wants adult fallback protection. NOAA wants adult protection for 2007. **ACTION:** R. Bailey to meet with Jim Mahar to discuss the south gate repair.
10. Bonneville SLEDs. Can we get the SLEDs installed sooner? FPOM says yes. FPP language needed.
11. Sea Lion Harassment Plan. See ODFW memo. Seal bombs are = to an M80. Robin Brown indicated he anticipated limited use of seal bombs in the BRZ. Dropping seal bombs over animals will turn them, keeping animals away from the shorelines will reduce effected foraging behaviour. G. Fredricks is reluctant to use bombs in the BRZ. He questions effectiveness and impact to migrating salmonids. Fredricks says no bombs, but if agreed to by others, there needs to be a set number and dates of allowed use, based on salmonid densities. He is also concerned about potential delay in migration. R. Bailey asked if no seal bombs are used, what is the effect on the success of the hazing? R. Brown said we may not see any change. Some animals respond differently. In 2006, a four day on and four day off evaluation showed no effect. ODWF was amenable to cutting use of seal bombs when restrictions such as densities, dates, etc were met. Bailey would like a letter from NOAA Fisheries stating 2007 hazing efforts are everything reasonable (maximum effort). State proposal is allowed under Section 109 of MMA (1972). USDA will be full time to assist keeping animals away from structures. All distances will be 100' from the concrete structures. **ACTION:** Concerns with the proposal will be addressed in a letter. Additional discussion centered around Corps personnel limitations (same as 2006) and if more bodies should be placed on the structures to assist with hazing. D. Wills did not favor moving more people to the structures as that would confound data and results and not allow NOAA to determine maximum effort. He was also concerned about the effect on the Spring Creek release and if there was any effective distance information available. FPOM recommendations for seal bombs. **ACTION:** Everyone should read the ODFW memo and come to the February FPOM with comments.
12. Fish Counting Report- water quality data. R. Stansell would like to know if the scroll case temps and turbidity were still desired. FPOM says yes, but there is the thought that maybe the information could be found elsewhere and there was some question as to the accuracy of the turbidity readings. **ACTION:** FPOM members will find out who wants the data and in what format. These findings will be presented at a future FPOM.
13. Weekly Reports. Deferred until February FPOM. Come prepared to discuss.
14. Fish Passage Plan comments. **ACTION:** Read the handouts and come to the February FPOM ready to discuss. The FPP discussions will start around 1130. The room is reserved up until 1600.
15. River Flow Forecast. Average rain year.
16. Other. BON informed FPOM of a proposal by CRITFC to install an acrylic window in the SMF sample flume to test enumerating juveniles as they pass through the secondary dewatering structure.
17. Meeting adjourned at 1220. Next meeting is 08 February from 0830 until 1100. 1130 until 1600 will be reserved for FPP discussions. Meeting will be in the Summit Room (10th floor). Bring your lunch.