



AGENDA

Fish Passage O&M Coordination (FPOM) Team
NOAA Fisheries Office 1201 NE Lloyd Blvd (Lloyd Center MAX stop)
St. Helens Room (10TH Floor)
March 13, 2008 (900-1400)

Call in number- 503-808-5199 passcode- 2580

1. Review/Approve Agenda and Minutes (Mackey)
2. Action Items (Mackey)
 - 2.1 [Nov 07] TDA stub weir removal. **STATUS: Currently on hold.**
 - 2.2 Discussion of JDA SMF monitoring operations, is daily sampling necessary all season?
ACTION: D. Schwartz to set up a meeting to discuss the daily monitoring needs at the JDA SMF. **STATUS: Waiting for FPAC to discuss. This will be carried over.**
 - 2.3 [Jan 08] Late season counting ended around 20 December at Lower Granite. **ACTION:** WDFW will send counts to Moody and let FPOM know when the counts are posted.
STATUS: Won't be posted until March.
 - 2.4 [Feb 08] BON B2CC closure. **ACTION:** Ops will put together a fact sheet for the March FPOM detailing the issues associated with closing the B2CC on 31 August as opposed to either 29 August or 2 September. **STATUS: Will be completed for the April FPOM.**
 - 2.5 [Feb 08] PIT tag detection needs at JDA. Should the system remain watered up through November, given the freezing temperatures JDA routinely experiences? NOAA recommended B. Cordie present the temperature data and justify an end date.
ACTION: B. Cordie will present info to FPOM and submit a FPP change form for JDA 1.1.3.
 - 2.6 [Feb 08] FPP McNary 2.3.1.2.d language for drawdown over dewatering screens
ACTION: Moody will get these done and in to S. Boyd. **STATUS: The same language that has been in the FPP since 2005. The problem is that NOAA wants a way to measure the water level at the dewatering screens, similar to what is done at other projects. MCN's dewatering structure is designed entirely different than other district dewatering structures and does not lend to the same monitoring methods. The Corps has tried to comply with NOAA's request with a water pressure sensitive monitor, but this has not worked. If there is another method that is reasonable, the facility would like to know.**
 - 2.7 [long time ago] Switch Gate Seal at BON: **ACTION:** JDA and BON will collaborate on new seals. **STATUS: BON believes they have found a solution. JDA proposes another option. [Please see the drawing attached to the agenda.](#) This could be installed on the dry side of the switch gate to equalize pressure on both side of the switch gate. After further discussion, JDA Project Fisheries determined there wasn't a need for this device due to the fact that the area is inspected every two hours and fish have not been seen on the wrong side of the switchgate.**
 - 2.8 [Feb 08] BON trolley pipe installation. **ACTION:** D. Schwartz will notify FPOM of any schedule delays. **STATUS: No delays in schedule, even with debris removal at U11-12.**
 - 2.9 [Feb 08] JDA unit priority. **ACTION:** M. Langeslay will try to get the JDA unit priority on the agenda for the 2/24 trip to Mississippi. **STATUS: Unit priority during testing will be posted in Appendix A.**
 - 2.10 [Feb 08] JDA TSW testing options. **ACTION:** B. Wertheimer will send out the options developed at the 13 Feb. special FFDRWG. T. Mackey will forward those to the FPOM mailing list. **STATUS: The testing options were looked at again during the 24-29 ERDC trip. These options will be discussed at FFDRWG on 19 March.**



- 2.11 [Feb 08] JDA TSW testing options. **ACTION:** J. Sweet will discuss 50% spill plus two hours with BPA for spill operations from 10-21 April. **STATUS:** *This will be discussed at the 19 March. Options are 50% plus one hour or the 30% TSW pattern 24 hours a day from 10-21 April.*
- 2.12 [Feb 08] BON orifice lights. **ACTION:** T. Mackey will send the PNNL orifice light report to FPOM and find more on the study Chelan PUD conducted. **STATUS:** *PNNL report was sent on 15 February. Email sent to Chelan PUD fisheries on 15 February.*
- 2.13 [Feb 08] BON orifice lights. **ACTION:** FPOM will review the PNNL report and provide comments as to which lights to use (LED or halogen) no later than 22 February. **STATUS:** *BON changed back to halogens for the Spring Creek release. Fisheries still wants to discuss halogen v. LED sometime in the future.*
- 2.14 [Feb 08] JDA VBS drawdown criteria. **ACTION:** Cordie will draft the FPP language detailing the 1.2' drawdown inspection criteria. **STATUS:** *Completed.*
3. Updates. (Mackey)
- 3.1 Pinnipeds at Bonneville. [Permanent removal proposal](#).
- 3.2 BON FOG barriers. All 12 barriers have been welded up and painted. The rub strips are being put on the 4 large barriers by the mechanics. They hope to finish two this week.
- 3.3 Sturgeon at Bonneville. (video)
- 3.4 B2CC closing date (29 August, 31 August, 2 September). Fact sheet at April FPOM.
- 3.5 TDA F2 OOS for 30 minutes to facilitate the ROV inspection of U1 on 17 March.
- 3.6 TDA ITS closure.
- 3.7 Little Goose cormorant take research.
- 3.8 Avian lethal take. Not in 1995 SOR. No budget for NEPA right now.
4. Non- AFEP related research.
- 4.1 Jennifer Tran proposal to determine mechanisms of latent mortality (BiOp Implementation, Project Code J.1). Purpose is to determine survival curves and vitality parameters to model survival rates of transported and in-river migrating juvenile Chinook salmon to a later life stage and to determine the seasonal patterns (spring and summer) of vitality parameters for transported and in-river migrating Chinook salmon. Ms. Tran will collect juvenile Chinook salmon that have been transported from Lower Granite Dam (Snake River) to Bonneville Dam (Columbia River), or that have migrated in-river over this same distance. Collections will include 840 untagged, in-river migrants from the JMF; 252 PIT-tagged in-river migrants from the SbyC at the JMF; 840 transported fish, separated into their own pen and barged from Lower Granite to BON.
- 4.1.1 84 fish for each treatment will be introduced to a challenge of increased water temperature ($25^{\circ}\text{C}\pm 1^{\circ}\text{C}$) and starvation. Fish will be observed at 08h00, 16h00, and 22h00 for mortality. These experiments will be repeated once a week, throughout the spring/summer chinook salmon migration season (mid-April to July, i.e. 10 weeks total), this sequence of collection of untagged fish and challenge experiments will be repeated. For PIT-tagged fish, this will be repeated three times in the early, mid, and late migration season.
- 4.2 University of Idaho/CRITFC Pacific Salmon Commission chinook proposal. Purpose is to aid in estimating escapement of Columbia River 'upriver bright' fall chinook salmon to the Deschutes, Yakima, and Snake Rivers, the Hanford Reach, and to sites upstream from Priest Rapids Dam. Researchers will collect, PIT-tag, and release 1,200 adult fall chinook salmon at Bonneville Dam to estimate escapement of one or more indicator



stocks for the Pacific Salmon Commission. This work, if funded, will begin 1 August, in conjunction with CRITFC normal sampling activities. UI and CRITFC propose to collect, PIT-tag, and release 1,200 adult fall chinook salmon at the AFF of Bonneville Dam. Salmon will be monitored as they migrate upstream to spawning areas in the Deschutes River, Hanford Reach of the Columbia River, and the Yakima and Snake rivers. Pit-tag detections will be collected using a network of fixed-site receivers located at dams and from the collection of carcasses during spawning ground surveys. Data will be analyzed to estimate escapement to spawning areas.

5. BON CI closure for sediment samples. There is a need to get a couple of sediment samples on the Cascades Island side of the spillway forebay. It is anticipated that the collection would take one day or less and would occur 17-19 March (depends on diver availability). There may be a need to close Bay 1 to facilitate the sediment sampling at the downstream site. Is FPOM ok with closing Bay 1 for a few hours while divers collect sediments at the furthest downstream site?
6. BON spillway survey dive. (Schwartz)
There is a request to shut off the fishways and spill bays 1 and 18 to allow the Army divers survey the main dam tailrace 24-28 March. The divers request closing Bay 1, CI AWS (FV5-3, 5-4) for the north side of the spillway and Bay 18 and B-Branch AWS for the south side of the spillway when they are diving in those areas. It is expected that the outage should be about an hour for each ladder. The fishway and attraction flow will be left in normal operating condition when diving is occurring in the middle of the spillway.
7. B2CC closure for BGS fine tuning. (Schwartz)
8. BON avian contracts. (Hausmann)
9. MCN Turbine Operations. (Moody)
10. Ice Harbor RSW Status. (Dykstra)
11. LMN auxiliary fish pumps. (Moody)
12. Task Group updates
 - 5.1. Shad fishery (Cordie)
 - 5.2. TIES (Klatte)
 - 5.3. Fishway velocity (Cordie)
 - 5.4. Sea lions (Bettin)
13. Water forecast. (RCC)
14. FPP proposed changes.
 - 14.1 The 2008 Fish Passage Plan <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/>
15. Other
16. Shad task group meeting following FPOM (1300-1400)



February 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8 Revised Draft FPP Due to NWD	9
10	11	12 TDAN dewater	13 TDAN dewater	14 FPOM Meeting- NOAA	15	16
17	18	19 JDAN dewater NWP – Special FFDRWG Bonn NWW – PDT ERDC Little Goose	20 JDAN dewater NWW – PDT ERDC Little Goose	21 NWW – PDT ERDC Little Goose	22 NWW – PDT ERDC Little Goose	23
24	25 NWW Agency Trip – Little Goose NWP Agency Trip John Day TSW	26 NWW Agency Trip – Little Goose NWP Agency Trip John Day TSW	27 NWW Agency Trip – Little Goose NWP Agency Trip John Day TSW	28 SLEDs installed NWW Agency Trip – Little Goose NWP Agency Trip John Day TSW	29 Annual FPP Issued Adult fish facility maintenance ends	



March 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 Adult Passage Season Begins – Start counting at Lower Granite Dam
2	3 Planning Mtg for Lamprey	4 SRWG	5 B2CC opens	6	7	8
9	10	11	12 TMT	13 FPOM Meeting- NOAA Shad Task Group Happy birthday	14	15
16	17	18	19 NWP FFDRWG Survival SRWG	20	21	22
23	24	25	26 TMT	27	28	29
30	31					



April 2008

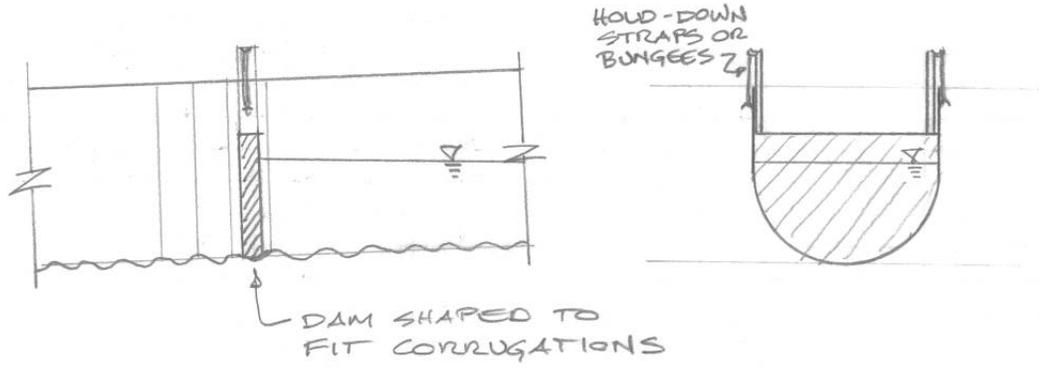
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Adult Fish Counting Starts all Dams. Juvenile Bypass Season Begins	2	3 Juvenile Spill Starts Snake River Dams – Pools to MOP	4	5
6	7	8	9 TMT	10 FPOM Meeting-McNary	11	12
13	14	15	16	17	18	19
20	21 Snake River Juvenile Transport Begins TSP PDT at ERDC	22 TSP PDT at ERDC	23 TMT TSP PDT at ERDC	24 TSP PDT at ERDC	25 TSP PDT at ERDC	26
27 Happy Birthday	28	29	30			



CONCEPT SKETCHES TO ELIMINATE SWITCHGATE DIFFERENTIAL PRESSURE

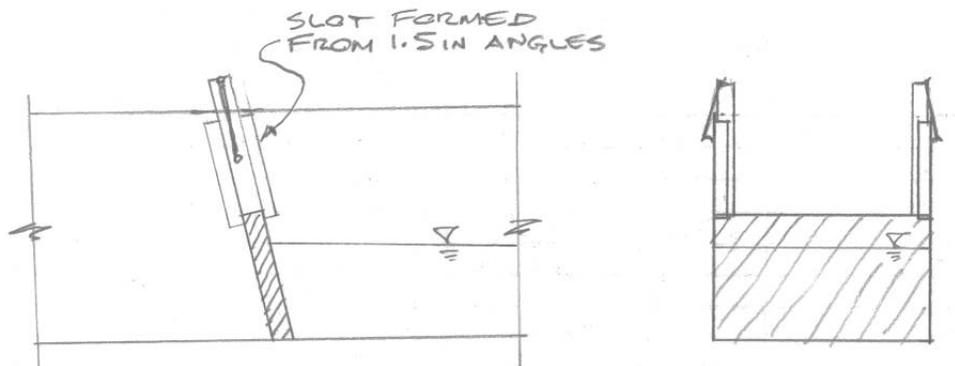
OPTION 1:

VERTICAL DAM IN CORRUGATED FLUME



OPTION 2:

ANGLED DAM IN SMOOTH RECTANGULAR FLUME





NWW updates for 13 March 2008 FPOM meeting.

Construction

McNary: U3 will return from 9-year overhaul on March 13. U13 returned to service on March 6.

Ice Harbor: U1 & 2 returned to service (respectively for fire protection and annual maintenance). U6 remains OOS due to transformer gas problem.

Lower Monumental: U6 temporarily out of service in support of RSW work until April 2.

Little Goose: U6 remains OOS due to water in stator since December 11. U5 returned after exciter repair.

Lower Granite: U 2 remains OOS for rewind and 6-year overhaul; completion expected September 2008.

Operations and Maintenance - Juvenile Fish Facilities

McNary: Transport Facility/Bypass System: Currently out of service for winter maintenance. New actuators installed in primary dewaterer floor valves. Rectangular screen cleaner repairs completed.

Ice Harbor: Juvenile channel unwatered. "Water-up" scheduled to start March 17. STSs are to be installed the week of March 24 - 27, as are trash rack raking operations. Nickel-plated STS chains have been replaced with stainless steel drive chains.

Lower Monumental: STS installations begin March 17. Primary Dewaterer: Air bubbler and cleaning brush drive system repairs completed. STS/VBS inspection camera – water tightness being improved.

Little Goose: Facility maintenance is mostly completed. Four orifice valves and air lines repaired.

Primary Dewaterer: support beam replacement commenced March 11, and is expected to take a week to complete. ESBS in slot 6A: bent cleaning brush being replaced. Trash Racks were raked in late February.

Lower Granite: Water up planned March 20, with water passing over separator bars on March 25.

Operations and Maintenance - Adult Fish Facilities

McNary: Oregon Ladder: placed back in service Feb 27, fish pumps 2 & 3 in service March 1. Fish pump #1 available on standby basis because discharge stop logs would need to be removed and swapped. Pump 1 oil leak repair will be completed soon. Damaged Visitor Viewing Room window replaced. Fishway system controls are now in full automatic operation. Washington Ladder watered back up Feb 27.

Ice Harbor: North Shore ladder watered up February 14. North Shore fish pumps #1 and 3 returned to service February 19. Fish pump #2 gearbox currently undergoing manufacturer warranty repairs. South Ladder is in service.

Lower Monumental: North ladder rewatered on Feb 9 and 10. All 3 fish pumps out of service to permit work on pump #2 until March 13. Pump #3 will be bulkheaded off and OOS once pump #2 is reinstalled. Pumps 1 and 2 will be in service March 13. "Bulkheading" will allow pumps 1 & 2 to run more efficiently. The south ladder is currently in service.

Little Goose: Fallout fence was replaced and outside-most viewing room window panes were removed to eliminate the buildup of water and algae between panes. Fish pumps and ladder returned to service Feb. 28.

Lower Granite: The ladder is currently in normal service. Pumps are operating satisfactorily.

Research

McNary: TSW: Moved from bay 22 to bay 19 with newly repaired deck crane lifting beam last week.

Ice Harbor: RSW: Radio tracking equipment is to be reinstalled March 5.

Little Goose: USGS Juvenile fish radio tracking antennas were recently removed.



FPP Change Form

9/14/07

Change Request Number:

Date:3/12/08

Proposed by: Bonneville Power Administration

Location of Change

The Dalles section 2.5.1.2e. 1997 Fish passage plan page TDA-12

Proposed Change:

Modify the paragraph to read from December 1 through the end of **March**, put the ITS on seal (do not operate).

Reason for Change:

True up language to match the FPP language contained in section 1.1.1 of The Dalles.

Comments from others:

Record of Final Action:

FPP Change Form

9/14/07

Change Request Number:

Date:3/12/08

Proposed by: Bonneville Power Administration

Location of Change

1997 Fish Passage plan, BON 14 section 2.2.2 Juvenile Fish

Proposed Change:

The NMFS 2004 BiOp sets a minimum spill level of 50 kcfs **from April 10 through August 31.**

Reason for Change:

Clarification of the Biological Opinion requirement. Is not intended to be applied year round.

Comments from others:

Record of Final Action: