

**OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE**

COORDINATION TITLE: *14BON42 LFS Attraction Flow Test*

COORDINATION DATE: 21 July 2014

PROJECT: Bonneville Dam

RESPONSE DATE: COB 25 July 2014.

Description of the problem: This is a test to determine optimal attraction flow through the Lamprey Flume Structure (LFS).

Most of the testing has been previously coordinated in MOC 14BON14. This MOC is to provide an updated test schedule.

Type of outage required: None

Impact on facility operation: One electrician will be needed to program the PLC for the random block design (see attached schedule).

Dates of operation: June to 4 September

Length of time for operation: (see attached schedule)

Expected impacts on fish passage: Minimal, entrained air will be monitored visually from 55' deck and flows reduced if a problem is noted.

Comments from agencies:

University of Idaho - -----Original Message-----

From: Caudill, Christopher (caudill@uidaho.edu) [mailto:caudill@uidaho.edu]

Sent: Tuesday, July 22, 2014 4:11 PM

To: Tackley, Sean C NWP; Zorich, Nathan A NWP;

Cc: Mackey, Tammy M NWP;

Subject: [EXTERNAL] RE: BON WA Shore Lamprey Flume ops (UNCLASSIFIED)

Hello Sean and all,

As an update to all, I have spoken to Sean and we have modified the treatments to the following simplified scheme following restart of the PLC control:

	Day	Night
Low	25%	40%
High	50%	80%

Night is defined as 2100-0530 and percentages are valve opening with 80% achieving full discharge at the opening. The night time period could be modified if there are concerns for salmonids or could be modified to match the reduced night time flow schedule (I'm unsure of the reduced flow period that is currently used at BON).

We will only be able to indirectly separate the effects of reduced nighttime flow by estimating the lag between detection in the LFS PIT antennas and collection times using any PIT-tagged adults. We have not detected any PIT tagged lamprey in the lower LFS over the past several weeks and the lack of detections in the LFS does (hopefully) indicate low entrance rate associated with the low velocities caused by the tripped up PLC controller. Similarly, the lack of variation in flow cause by the fault will make analysis of the data from the past few weeks less compelling, but we'll pass along anything worth sharing.

Thanks,
Chris C.

NOAA Fisheries - -----Original Message-----

From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]
Sent: Thursday, July 24, 2014 10:49 AM
To: Mackey, Tammy M NWP; Tackley, Sean C NWP; Zorich, Nathan A NWP
Cc: Trevor Conder - NOAA Federal; Lorz, Tom; Hausmann, Ben J NWP
Subject: [EXTERNAL] Re: 14BON42 LFS attraction flow test

Tammy et al., I think the flow levels are fine based on our assessment at the project last week. I do believe that the block design timing should be modified based on the definition of "daytime" (and therefore night complement) in Table BON-5 of the 2014 FPP. The intent of the test block timing and the daytime spill schedule are at least in part the same, to reduce impacts to passing adult salmon. Thanks, Gary

BON Fisheries - -----Original Message-----

From: Hausmann, Ben J NWP
Sent: Thursday, July 24, 2014 10:54 AM
To: Gary Fredricks - NOAA Federal; Mackey, Tammy M NWP; Tackley, Sean C NWP; Zorich, Nathan A NWP
Cc: Trevor Conder - NOAA Federal; Lorz, Tom
Subject: RE: [EXTERNAL] Re: 14BON42 LFS attraction flow test

I second that Gary. I think they need to be a little tighter on both ends.

NWP Fisheries and University of Idaho –

-----Original Message-----

From: Tackley, Sean C NWP [mailto:Sean.C.Tackley@usace.army.mil]
Sent: Thursday, July 24, 2014 11:03 AM
To: Caudill, Christopher (caudill@uidaho.edu); Keefer, Matthew (mkeefe@uidaho.edu)
Cc: Fordonski, Chris J NWP; Mackey, Tammy M NWP; Hausmann, Ben J NWP; Gary Fredricks - NOAA Federal; Zorich, Nathan A NWP; lorz@critfc.org; Trevor Conder (trevor.conder@noaa.gov)
Subject: FW: [EXTERNAL] Re: 14BON42 LFS attraction flow test (UNCLASSIFIED)
Classification: UNCLASSIFIED
Caveats: NONE
Chris C (and Chris F),

Can the schedule be modified to match Table BON-5 of the 2014 FPP (link below)? I know this adds a bit of complexity, as the day/night times will shift through the season.

Thanks,
Sean

-----Original Message-----

From: Caudill, Christopher (caudill@uidaho.edu) [mailto:caudill@uidaho.edu]

Sent: Thursday, July 24, 2014 11:51 AM

To: Tackley, Sean C NWP; Keefer, Matthew (mkeefe@uidaho.edu)

Cc: Fordonski, Chris J NWP; Mackey, Tammy M NWP; Hausmann, Ben J NWP; Gary Fredricks - NOAA Federal; Zorich, Nathan A NWP; lort@critfc.org; Trevor Conder (trevor.conder@noaa.gov)

Subject: RE: [EXTERNAL] Re: 14BON42 LFS attraction flow test (UNCLASSIFIED)

Seems logical to me assuming the programming can be done.

Thanks,
C

Final results:

Testing will move forward with the schedule modified to match the 2014 FPP spill table (Table BON-5).

Please email or call with questions or concerns.

Thank you,

Nathan Zorich

NWP Fisheries Field Unit

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NWP Planning

Sean.

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