# OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE - 13 MCN 05 Washington Shore Entrance Weir COORDINATION DATE - 30 April 2013

PROJECT - McNary Lock and Dam

RESPONSE DATE - 3 May 2013

#### **Description of the problem:**

One of the cables on Washington Entrance Weir #3 (WFEW3) has either broken or become otherwise disconnected, causing the weir to hang at an angle on the remaining cable. The weir is not functional in this configuration, and the other cable is in danger of failing due to the extra weight.

# Type of outage required:

We need to place the Washington ladder in orifice flow, and probably shut down the Wasco County PUD auxiliary turbine attraction water in order to reduce flows enough to conduct the work. We also need to shut down Spillbays 1 and 2 in order to reduce turbulence enough that work crews can access the weir from a manbasket. We believe that the work can be performed in one work day.

#### **Impact on facility operation:**

We will temporarily lose the spill capacity of two of the 22 spillbays. This can likely be compensated by the remaining spillbays. The Wasco County PUD turbine will need to be shut down for one day, and the ladder will need to be placed in orifice flow, in order to reduce flows sufficiently to conduct the repairs.

## **Dates of impacts/repairs:**

Repairs should be conducted as early as reasonably possible, in order to prevent failure of the remaining weir cable. If that cable fails, we will likely need to call in divers.

# **Length of time for repairs:**

We believe that the repairs can be completed in one work day.

## **Expected impacts on fish passage:**

Fish passage would be reduced on the Washington side during the one day repair operation. It is probably already being affected by the non-functioning, damaged weir. Total spill should not be affected, but it would be concentrated on 20 spillbays (including the two TSW's) instead of 22 spillbays.

# **Comments from agencies:**

From: Trevor Conder - NOAA Federal [mailto:trevor.conder@noaa.gov]

**Sent:** Wednesday, May 01, 2013 10:55 AM **To:** Moody, Gregory P NWW; Setter, Ann L NWW

Cc: Gary Fredricks - NOAA Federal; Lorz, Tom; Dugger, Carl R NWW; Laughery, Ryan O NWW;

Ritchie Graves - NOAA Federal

**Subject:** Re: FPOM Coordination Emergency entrance weir at the Washington Shore fishway (UNCLASSIFIED)

Hi Greg,

Our suggestion is to get this work done as soon as possible as the adult spring Chinook run is rapidly increasing. We prefer the work begin after 10 am but the most important point is to complete the work soon and within one working day. We suggest spreading the spill evenly across the middle bays so the crown pattern is maintained with good egress for juveniles. Extra care should be taken in the spill pattern to not create a reverse flow condition at the south entrance. Thanks for the coordination.

#### -Trevor

----Original Message---From: Dugger, Carl R NWW
Sent: Thursday, May 02, 2013 3:16 PM
To: Moody, Gregory P NWW
Subject: RE: FPOM Coordination: Oregon Shore entrance weir (UNCLASSIFIED)
Classification: UNCLASSIFIED
Caveats: NONE

Right. By the way, they managed to get the weir up on the Washington side. The stub that the rod bolted to had broken off. They will have to have a welder come in, clean it off, and weld a new stub on it.

Unlikely they will be able to finish it today. We will lower WFEW1 and go back off orifice flow, etc., if we need to leave it overnight.

#### - Carl ----Original Message----

From: Roberts, Timothy J NWW

Sent: Wednesday, May 01, 2013 2:12 PM

To: Gersbach, William J NWW; Coleman, Dave R NWW; Setter, Ann L NWW; Dugger, Carl R NWW; Moody, Gregory P NWW; Bailey, John C NWW; Fone,

Kenneth R NWW; Harris, James A NWW

Subject: RE: FPOM Coordination Emergency entrance weir at the Washington Shore fishway (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Let's get everyone on the same page.

Here is what we are going to do.

\*Tomorrow 1000 Operations will start taking Washington Ladder to Orifice Flow.

\*WASCO will Shut down their Turbine and close off Auxiliary water supply.

\*Operations will adjust Spillways as necessary (do we need a teletype?).

\*General Maintenance will try and raise weir using Chain Fall etc...

\*If flows is still too fast than it will require a man basket and 30 Ton Crane.

\*By 1400 the N/L derrick crane will be done placing N/L stop logs and can be used to lower 30 Ton Mobile. If there is enough time in day we will make a second attempt.

\*If there is not then we will put WASCO back on line and try and get back in compliance or as close to it as we can.

\*If Thursdays efforts are unsuccessful we will try again Friday.

Bill,

Please notify WASCO

-Tim

#### **Final results:**

----Original Message----

From: Roberts, Timothy J NWW

Sent: Thursday, May 02, 2013 6:18 PM

To: Werner, Richard D NWW; Moody, Gregory P NWW; Dugger, Carl R NWW;

Setter, Ann L NWW; Coleman, Dave R NWW; Weston, Dwayne M NWW

Cc: DLL-CENWW-MCNARY CONTROL ROOM; Martin, Robert A NWW; Harris, James

A NWW; Johnson, Bobby NWW; Johnson, Richard D NWW

Subject: RE: Washington Ladder Entrance Repairs Tomorrow (Thursday)

(UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Washington Ladder has returned to service and is back in compliance, spillway is also back to its normal pattern.

For your review - the below chart displays both the Washington shore and the Oregon shore adult fish passage at McNary before and after Washington Entrance Weir #3 (WFEW3)emergency repair. Work started after 10:00 hrs and was completed that afternoon on 2 May.

McNary Washington Shore												
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead		Unclipped Steelhead		Adult Coho	Jack Coho	Sockeye	Chum	Pink
4/26/2013	94	94	0	3	2	1	0	0	0	0	0	0
4/27/2013	141	137	4	1	0	1	0	0	0	0	0	0
4/28/2013	163	162	1	-1	0	-1	0	0	0	0	0	0
4/29/2013	329	319	10	6	0	6	0	0	0	0	0	0
4/30/2013	522	512	10	1	0	1	0	0	0	0	0	0
5/1/2013	921	886	35	2	2	0	0	0	0	0	0	0
5/2/2013	273	251	22	0	0	0	0	0	0	0	0	0
5/3/2013	860	790	70	4	4	0	0	0	0	0	0	0
5/4/2013	720	662	58	3	1	2	0	0	0	0	0	0
5/5/2013	440	380	60	1	0	1	0	0	0	0	0	0
total	4463	4193	270	20	9	11	0	0	0	0	0	0

McNary Oregon Shore												
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink
4/26/2013	70	68	2	1	0	1	0	0	0	0	0	0
4/27/2013	158	151	7	3	1	2	0	0	0	0	0	0
4/28/2013	274	264	10	3	1	2	0	0	0	0	0	0
4/29/2013	569	558	11	7	2	5	0	0	0	0	0	0
4/30/2013	1507	1442	65	12	6	6	0	0	0	0	0	0
5/1/2013	1595	1474	121	12	6	6	0	0	0	0	0	0
5/2/2013	1175	1051	124	4	2	2	0	0	0	0	0	0
5/3/2013	1745	1606	139	5	4	1	0	0	0	0	0	0
5/4/2013	1542	1397	145	6	4	2	0	0	0	0	0	0
5/5/2013	1258	1148	110	3	1	2	0	0	0	0	0	0
total	9893	9159	734	56	27	29	0	0	0	0	0	0

Please email or call with questions or concerns. Thank you,