

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

COORDINATION TITLE: 16 MCN 04 MCN Fish Pump (FP) Outage Notification
COORDINATION DATE- April 21, 2016
PROJECT- McNary Lock and Dam
RESPONSE DATE- April 25, 2016

Description of the problem:

BPA Transmission has scheduled a Line Outage for McNary PH Line #1 at 1330-1530 on 26 April, to support their 230Kv Line Circuit Work - DART# 1053321. Normally this would not require a FP outage because McNary Operations could switch the FPs to Line 2, however, due to our Capital Project – 4160VAC Station Service Upgrade, McNary has removed the bus bar connection, by which Line 2 provides power to the FPs, to support equipment removal and installation. This resulted in a single line feed to the FPs until the related bus connection can be restored in early July, 2016. This temporary condition leaves McNary’s FPs solely dependent upon McNary PH Line #1 for FP power. Once PH Line One has been de-energized, at 1330, the South ORFL Entrance will not be supplied with Fish Pump attraction water until it’s return to service at 1530.

Type of outage required:

Short term outage from 1330 – 1530 on 26 April, 2016.

Impact on facility operation:

There will be a two hour reduction in adult fish attraction flow to the Oregon ladder due to the fish pump outage (approximately 5000 cfs) in the afternoon on April 26. However, the 1000 cfs conduit will still be open along with flow coming down from the exit (230 cfs). The juvenile facility will still be providing 450 cfs to the north powerhouse pool. Attraction flow will be reduced but not completely. At worst, fish passage would be delayed two hours.

The predominated species passing at this time is spring Chinook, the numbers of which should begin to increase. Right now 2016 counts appear to be less than 2015 when examining the tables below. However, this could change in the next 5 days. Fortunately, the outage is in the afternoon when the majority of fish are already in the ladder or have passed.

A look at Bonneville adult Chinook counts to date reflect run count so far.

2015	52,729
2016	6,260

McNary adult fish counts in 2015 before and after April 26 from Portland District website: <http://www.nwp.usace.army.mil/Missions/Environment/Fish/Counts.aspx>

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
4/22/2015	3655	3653	2	9	4	5	0	0	0	0	0	0
4/23/2015	3667	3667	0	14	2	12	0	0	0	0	0	0
4/24/2015	5935	5929	6	8	2	6	0	0	0	0	0	0
4/25/2015	6169	6152	17	7	1	6	0	0	0	0	0	0
4/26/2015	3663	3656	7	15	4	11	0	0	0	0	0	0
4/27/2015	3672	3658	14	11	5	6	0	0	0	0	0	0
4/28/2015	1950	1938	12	4	0	4	0	0	0	0	0	0
4/29/2015	2758	2742	16	7	1	6	0	0	0	0	0	0
4/30/2015	2947	2927	20	5	1	4	0	0	0	0	0	0
total	34416	34322	94	80	20	60	0	0	0	0	0	0
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink

McMary adult fish counts in 2016 up to yesterday's date, April 20.

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
4/14/2016	68	68	0	21	5	16	0	0	0	0	0	0
4/15/2016	58	58	0	16	5	11	0	0	0	0	0	0
4/16/2016	41	41	0	4	2	2	0	0	0	0	0	0
4/17/2016	77	76	1	4	2	2	0	0	0	0	0	0
4/18/2016	67	67	0	10	5	5	0	0	0	0	0	0
4/19/2016	67	66	1	4	0	4	0	0	0	0	0	0
4/20/2016	113	113	0	12	6	6	0	0	0	0	0	0
total	491	489	2	71	25	46	0	0	0	0	0	0
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink

McNary 24 hour fish count for 2015 during the same time frame from the same website.

24-Hour chinook in the McNary Oregon Shore fishladder

U.S. Army Corps of Engineers

[csv format](#)

Date	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	H16	H17	H18	H19	H20	H21	H22	H23	H24	
4/22/2015	1	91	106	40	329	376	388	235	397	536	236	162	238	223	192	106									
4/23/2015	0	151	151	132	214	480	426	500	398	233	128	216	179	232	211	16									
4/24/2015	1	365	154	342	576	446	449	414	599	881	568	347	260	186	149	199									
4/25/2015	0	319	180	716	1,021	602	619	367	296	803	266	320	319	196	133	10									
4/26/2015	0	88	85	229	458	485	422	320	358	486	223	199	140	90	64	16									
4/27/2015	0	108	65	276	700	539	380	220	296	314	155	229	272	92	25	0									
4/28/2015	0	10	43	108	372	296	395	277	173	157	108	0	0	8	2	0									
4/29/2015	8	170	96	251	272	392	368	222	284	226	160	22	24	80	72	109									
4/30/2015	6	355	157	493	556	155	115	89	102	120	59	1	58	380	216	85									
average	1.8	184.1	115.2	287.4	499.8	419	395.8	293.8	322.6	417.3	211.4	166.2	165.6	165.2	118.2	60.1									

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Content POC: Fish Field Unit, FFU_Fish_Count_Info@usace.army.mil

24-Hour steelhead in the McNary Oregon Shore fishladder

U.S. Army Corps of Engineers

[csv format](#)

Date	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	H16	H17	H18	H19	H20	H21	H22	H23	H24	
4/22/2015	0	0	0	0	0	1	0	0	0	4	0	0	2	1	0	0									
4/23/2015	0	1	2	1	0	0	0	1	2	2	0	1	1	0	1	0									
4/24/2015	1	1	0	0	1	0	2	0	1	1	0	0	0	0	0	0									
4/25/2015	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0	2									
4/26/2015	0	1	1	2	2	1	4	1	0	1	0	0	0	0	0	0									
4/27/2015	0	0	0	1	0	1	1	1	1	0	0	1	1	0	2	0									
4/28/2015	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0									
4/29/2015	0	0	0	1	1	1	0	0	1	1	0	0	1	0	0	0									
4/30/2015	0	0	0	0	1	0	0	2	0	0	0	1	0	0	0	0									
average	0.1	0.4	0.3	0.7	0.6	0.7	0.9	0.6	0.7	1	0	0.3	0.6	0.2	0.3	0.2									

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McNary 24 hour fish counts for 2016 up to yesterday's date, April 20.

24-Hour U.S. Army Corps of Engineers chinook in the McNary Oregon Shore fishladder [csv format](#)

Date	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	H16	H17	H18	H19	H20	H21	H22	H23	H24	
4/14/2016	0	1	2	7	4	2	4	4	11	7	6	5	8	6	1	0									
4/15/2016	0	0	8	0	4	4	1	14	6	0	1	0	4	11	4	1									
4/16/2016	0	0	1	0	0	1	0	0	13	12	4	4	2	1	2	0									
4/17/2016	0	0	14	2	4	0	4	10	12	4	6	5	4	5	5	4									
4/18/2016	0	0	8	4	1	5	2	6	4	8	7	2	8	1	8	1									
4/19/2016	0	0	1	2	1	1	0	1	6	10	2	1	10	18	6	7									
4/20/2016	0	6	8	1	10	10	5	4	6	13	10	4	6	10	18	4									
average	0	1	6	2.3	3.4	3.3	2.3	5.6	8.3	7.7	5.1	3	6	7.4	6.3	2.4									

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Content POC: Fish Field Unit, FFU_Fish_Count_Info@usace.army.mil

24-Hour U.S. Army Corps of Engineers steelhead in the McNary Oregon Shore fishladder [csv format](#)

Date	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15	H16	H17	H18	H19	H20	H21	H22	H23	H24	
4/14/2016	0	2	1	0	1	5	1	0	2	1	1	2	1	0	1	0									
4/15/2016	0	1	1	1	0	1	2	1	1	0	0	0	0	5	1	0									
4/16/2016	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0									
4/17/2016	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	0									
4/18/2016	0	0	0	0	0	1	4	0	0	2	2	0	0	0	0	0									
4/19/2016	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0									
4/20/2016	0	1	0	0	0	1	1	0	1	0	0	4	1	1	1	0									
average	0	0.7	0.4	0.3	0.1	1.1	1.3	0.4	0.9	0.4	0.4	0.9	0.4	0.9	0.7	0									

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Length of time for repairs:

The total length of time required for BPA Transmission to perform their work, will be 2 hours.

Expected impacts on fish passage:

Expected negative impacts on fish should be minimized by taking the FPs offline after 1300 and for a short duration of time.

Comments from agencies

Final results:

Thank you,
William Gersbach
541-922-2253