

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE - 16 MCN 09 TSW Removal

COORDINATION DATE - May 25, 2016 – Update June 09, 2016

PROJECT- McNary

RESPONSE DATE - June 02, 2016. Comments on update accepted to June 16, 2016.

Description of the problem: Per 2016 “Fish Operations Plan” page 13, the TSWs in spill bays 19 and 20 are to be removed from service on June 8. The removal is to be coordinated with FPOM. A debris spill is to take place between June 06 and 08 (see MOC 16 MCN 08 Debris Spill Notification). This debris spill operation may extend to June 8 with the TSW in bay 20 open as needed that day until the debris removal is completed. The TSW in bay 20 would be open no more than five hours.

Update June 9: Most of the debris was spilled on June 8, but some still remains. The remaining debris is to be spilled June 9 (today) with the help of the log bronc (tug). No changes in turbine operations or spill are necessary for this phase of debris removal. Should there be any remaining forebay debris during the June 9 debris removal operation, TSW 20 may be briefly operated to remove this debris. The debris movement has stirred up forebay milfoil, causing higher differentials on some of the VBSs. VBS cleaning will be necessary before TSW removals take place. Since there is insufficient staff and space to conduct VBS cleaning operations and TSW removal simultaneously, only one TSW will be removed this week. The second TSW removal is expected to take place on Monday, June 13.

Type of outage required: At 0001 hours on June 8, the TSWs in bays 19 and 20 will be closed. The spill pattern will be switched to Table MCN 10, the TSW removal pattern. That morning, the general maintenance staff will begin removing the TSW in bay 19 and installing a standard spill gate. If the debris spill operation is completed, the TSW in bay 20 will remain out of service. If the debris spill operation is not completed, the TSW in bay 20 will be opened and used as needed for debris removal. Surface flow out the TSW is required to remove the debris, especially large logs. The TSW in bay 20 will be removed from service on June 8 after completion of the debris removal operation and no later than 1700 hours. Each TSW removal and exchange takes about two days. Wind conditions during the operation can delay the process. Both TSWs should be replaced with standard spill gates by close of business on June 11, at which time the spill pattern will be switched to Table 9 MCN-9, the spill pattern with no TSWs in operation.

Impact on facility operation: TSW removal is a onetime operation that occurs every June. Different this year is the possibility of using the TSW in bay 20 for five hours or less to remove forebay debris on June 8.

25 May	23 May	23 May	27 May	4 Jun	8 Jun	2 Jun	2 Jun
92.5%	90.5%	92.1%	91.2%	90.7%	92.0%	90.8%	94.7%

Table 3. McNary 10 Year Average Percent Passage for Subyearlings at the JFF in June.

Subyearling CH	
Clip	Non-Clipped
1 Jun	1 Jun
0.3%	1.1%
15 Jun	15 Jun
6.3%	5.3%

Subyearling Chinook passage numbers for 2015 at the JFF during the time frame of the TSW replacement for 2016 are reflected in Table 4 below.

Table 4. McNary JFF Passage June 4 to 16, 2015.

Date	Yearling CH	Sub-Yr CH	Clipped SH	Non-clipped SH	Sockeye	Coho
Jun 4	2,814	2,119	859	358	600	800
Jun 6	2,400	6,200	1,250	550	550	600
Jun 8	1,700	7,750	1,400	250	300	1,150
Jun 10	1,874	15,559	1,110	457	150	850
Jun 12	1,011	28,985	103	101	0	100
Jun 14	1,200	21,100	200	100	200	100
Jun 16	411	20,986	302	101	0	200

Comments from agencies

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

From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]
 Sent: Wednesday, June 01, 2016 12:24 PM
 To: Bailey, John C NWW <John.C.Bailey@usace.army.mil>
 Cc: Johnson, Bobby NWW <Bobby.Johnson@usace.army.mil>; Lorz, Tom <lort@critfc.org>
 Subject: [EXTERNAL] Re: MOC 16 MCN 09 TSW Removal

John, I agree with the conclusion in the MOC of minimal effect due to the extra 5 hour operation of the Bay 20 TSW. Good luck with the debris spill. Thanks, Gary

Final results

Please email or call with questions or concerns.

Thank you,

Bobby Johnson
 Fisheries Biologist
 McNary Lock and Dam

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Email: Bobby.Johnson@usace.army.mil