OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 18 MCN 05 Delay in closure of TSW's due to debris
COORDINATION DATE- June 6, 2018
PROJECT- McNary Dam
RESPONSE DATE- June 8, 2018

Description of the problem: Surface debris continues to accumulate in the McNary forebay along the spillway and powerhouse even after the May 30 emergency debris spill. We have noted much of the debris going over the TSWs recently. To facilitate debris removal, the project would like to keep both TSWs, which are scheduled to close on June 11, to remain open until June 18, at which time they would be closed. FPOM had previously agreed to move the TSW closure from June 8 to 11 due to the weekend. Also, during the May 24 FPOM meeting, TSW closure delay due to debris was discussed.

Type of outage required: None. TSWs would remain open until the morning of June 18.

Impact on facility operation: None.

Impact on unit priority: None.

Impact on forebay/tailwater operation: None.

Impact on spill: TSWs will remain open in spillbays 19 and 20 until June 18 instead of being closed June 11. TSWs removal and replacement with standard spill gates would begin June 18 instead of June 11.

Dates of impacts/repairs: From June 11 to June 18 the TSWs will remain open. No repairs required.

Length of time for repairs: Extend TSW operation for one more week.

Analysis of potential impacts to fish: No impact on adult passage is anticipated. The only juvenile specie/race that could potentially be impacted are subyearling Chinook. The data analysis will focus on subyearling Chinook. FPC data was used and was provided by Thomas VanNice, PSMFC.

1. 10-year average passage by run during the period of impact:

   Approximately 98.8% of yearling Chinook salmon, steelhead, coho salmon and sockeye pass McNary dam before June 11 on average from 2008 to 2017. The number of subyearling Chinook salmon passing from June 11 to June 18 over the 10 yr. average from 2008 to 2017 was 99,565.

2. Statement about the current year's run:

The number of subyearling Chinook salmon passing YTD for 2018 is 267,377 compared to the YTD 10 yr. average of 103,635, quite higher due to early hatchery releases and heavy river flows.

3. Estimated exposure to impact by species and age class:

   From 2008 to 2017, 6.3% of the subyearling Chinook salmon run pass McNary dam from June 11 to June18 on average.

4. Type of impact by species and age class: Subyearling Chinook are the mostly likely group of fish to be impacted by extended TSW operation. Two of 22 spillbays (9.1 percent) will continue to provide surface bypass. Since subyearling Chinook migrated at greater depths than other species/races, some delay in Chinook passage could occur. If passage distribution were equal across the spillway, 0.7 percent of the subyearling Chinook outmigration could be affected.

Summary statement - expected impacts on:

Downstream migrants: slight delay in subyearling Chinook passage.

Upstream migrants (including Bull Trout): None.

Lamprey: None.

Comments from agencies:

From: Tom Lorz
To: Setter, Ann L CIV USARMY CENWW (US)
Subject: [Non-DoD Source] RE: Emailing: 18 MCN 05 Delay in TSW closure.doc
Date: Thursday, June 7, 2018 9:53:02 AM

We are fine with this. If debris really drops off you can take out sooner but current schedule is ok.

Final coordination results:

After Action update:

The morning of June 18, bays 19 and 20 were closed and spill Table MCN-10, for TSW removal, was put into effect. The removal occurred satisfactorily. However, by Thursday, June 21, two problems were causing difficulties in installing the standard spill leaf in each bay. First, the hoist used in bay 19 would not properly attach to the spill gate. Secondly, the crane used at bay 20 had brake issues. These two issues and setting the limits for the crane and hoist could not be resolved by the close of business. With Friday being a non-work day, district biologists were consulted to see if completion of the work could be done on Monday, June 25. It was agreed to finalize the work on Monday, which did occur. By 1600 hours, Monday, June 25, the spill pattern was set to Table MCN-9, without TSWs.

Please email or call with questions or concerns.

Thank you,

Bobby Johnson
Project Fishery Biologist, McNary Dam
Phone: (541)-922-2212
Email: bobby.johnson@usace.army.mil