

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 21 LMN 03 MOC Spillgate Gearbox Replacement

COORDINATION DATE- 12 August 2021

PROJECT- Lower Monumental Dam

RESPONSE DATE- 19 August 2021

Description of the problem

Gearboxes for spillgates 1, 3, 4, 6 and 8 are scheduled to be replaced from August 23 to 31. One spillgate will be taken out of service for this work at a time, with 7 spillgates available for operation at any time until summer spill operation ends on August 31. Spillgates 2, 5 and 7 will remain in service during this timeframe to maintain spill pattern and volume per the Fish Passage Plan.

Type of outage required – A single spillgate will be taken out of service at a time to complete gearbox replacement.

Impact on facility operation – There will be no impact on fish facility operations.

Impact on forebay/tailwater operation – There will be no impact on forebay/tailwater operations.

Impact on spill - The RWS is currently closed due to high temperatures and low flows. With the RWS closed, the spill pattern per the Fish Passage Plan utilizes spillbays 2, 5 and 7 up to 17.4 kcfs. The maintenance procedure will not have any impact on spill volume or pattern.

Dates of impacts/repairs – Spillgate gearbox replacement is scheduled to take place during summer spill from August 23 to 31. Work will continue after summer spill ends.

Length of time for repairs – Replacement procedures should take approximately 60 hours per gate.

Analysis of potential impacts to fish

1. The 10 year daily average of adult fish passing Lower Monumental Dam during this period is 285 Chinook salmon and 335 steelhead.

The 10 year daily average of juvenile outmigration through the collection facility at Lower Monumental Dam during this period is 59 subyearling Chinook salmon, <1 yearling Chinook salmon, <1 coho, <1 sockeye and <1 steelhead.

No impacts are anticipated for any upstream or downstream migration or resident fish.

2. Upstream adult passage and juvenile outmigration numbers are below the 10 year average.
3. Spill pattern and spill quantity will not be affected during this period, so there will be no impact to fish.

Summary statement - expected impacts on:

Downstream migrants - There will be no impact on downstream migration.

Upstream migrants (including Bull Trout) – There will be no impact on upstream migration, including no impact on bull trout.

Lamprey – There will be no impact on lamprey.

Comments from agencies

<Scott.J.StJohn@usace.army.mil> wrote:

Josie,

As for the MOC question, bays 2, 5 and 7 are the only bays that will be utilized with current and forecasted spill through the end of summer spill at LMN (see attached). This MOC does not change spill pattern or volume and therefore did not necessarily need to be coordinated. However, we have tried let folks know as the general assumption is that spillbays will be available during spill season. Again, spill volume and pattern would not change if the work was conducted or not. Hope that makes sense.

Let me know if you have any other questions. Happy to assist.

Scott St. John

Fish Biologist

Natural Resources Management

U.S. Army Corps of Engineers, NWW

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From: Josie Thompson - NOAA Federal <josie.thompson@noaa.gov>

Sent: Thursday, August 12, 2021 3:17 PM

To: St John, Scott J CIV USARMY CENWW (USA) <Scott.J.StJohn@usace.army.mil>; Raymond.a.addis@usace.army.mil

Subject: [Non-DoD Source] Re: 21 LMN 03 MOC Spillgate Gearbox Replacement

Hello Scott and Raymond,

Also, regarding this MOC, it says that the spill patterns will not change. But just so I am understanding this clearly, does that mean that if this work did not need to happen that you would still be ONLY spilling from spillbays 2,5 and 7? Or would you actually be using the other ones at some times in order to match the most ideal spill pattern (i.e. the spill would still be spread out across the spillway similarly, but using different spillbays)?

Thank you for the verification.

Regards,

Josie

Josie Thompson

she/her/hers (Why this is important.)

Columbia Hydropower Branch

Interior Columbia Basin Office

NOAA Fisheries, West Coast Region

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Final coordination results

After Action update - The gearbox for Spillway 3 was removed and new gearbox installed and wired from August 23 to 31. No other spillways were impacted. Lower Monumental operated in accordance to the established late summer spill pattern in FPP (Table LMN-9) for the duration of the work outlined in the MOC.

Please email or call with questions or concerns.

Raymond A. Addis

Fish Biologist

Lower Monumental Dam

509-282-7216

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