

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

COORDINATION TITLE- 23 LGS 07 Unit 5 Commissioning

COORDINATION DATE- May 15, 2023

PROJECT- Little Goose Dam

RESPONSE DATE- May 22, 2023

Description of the problem: Unit 5 has been out of operation since 2017 for major repairs. Prior to returning to operation, a minimum of testing is required to assure the unit is fit for use. Commissioning of the unit involves performing an array of tests, including the bump test, bearing heat run tests, governor tuning, unit synchronization, load rejection tests, and 72-hour run. Many of these tests will involve running the unit at various speeds, including occasionally outside of the 1% operating efficiency range, over a period of two weeks. During this time, Unit 5 will likely be operated out of priority but flows should be sufficient to operate at least unit 1 at all times, and likely other units as well, and unit 5 operations will not cause a decrease in programmed spill. Testing is scheduled to be performed May 30 through June 10, 2023.

Type of outage required:

Impact on facility operation (FPP deviations): Operate unit 5 out of priority and outside 1% operating range for short durations, 1 hour or less.

Impact on unit priority: Priority is unit 1 to unit 6, in order (FPP, Chapter 8, Table LGS-6). Flows are expected to be sufficient to operate unit 1 at all times, and likely unit 2 as well, but testing will require the Project to temporarily operate unit 5 before units 3 and/or 4.

Impact on forebay/tailwater operation: Testing will not impact forebay or tailwater.

Impact on spill: Testing will not impact spill.

Dates of impacts/repairs:

The commissioning period is scheduled for May 30 through June 10. The testing will not necessarily be occurring every day during this period. The dates may shift if there are delays in work completion leading up to commissioning.

Length of time for repairs: NA.

Analysis of potential impacts to fish

1. 10-year average passage by run during the period of impact for adults and juvenile listed species, as appropriate for the proposed action and time of year;
Adult counts May 30 - June 10 at Little Goose Dam average 8,622 Chinook salmon and 20 steelhead.
2. Statement about the current year's run (e.g., higher or lower than 10-year average);
The run forecast for spring Chinook salmon was higher than average and for steelhead was lower than average. To date the spring Chinook run has been about one month late and lower than average.
3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);
On average, adult counts at Little Goose Dam for May 30 to June 10 make up 9.2% of Chinook salmon and less than 0.1% of steelhead passing the project.
4. Type of impact by species and age class (increased delay, exposure to predation, exposure to a route of higher injury/mortality rate, exposure to higher TDG, etc.);
Upriver migrants including spring Chinook salmon and steelhead may be delayed passing the project the change in Unit Priority.

Juvenile salmon and steelhead should not be affected by unit testing.

Summary statement - expected impacts on:

Downstream migrants: Minimal impact from unit 5 operating outside the 1% range for short durations.

Upstream migrants (including Bull Trout): Upriver migrants may experience upstream delay as priority unit attraction water shifts to unit 5 during testing.

Lamprey: Minimal.

Comments from agencies

Final coordination results:

After Action update: Contractual obligations and performance issues realigned the Unit 5 ERTS date from 6/30/23 to 7/31/23, then 8/31/23, 12/1/23, 2/1/24, and is now being resubmitted in 2024 as MOC 24 LGS 03 Unit 5 Commissioning.

Please e-mail or call with questions or concerns.

Thank you,

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