

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

**COORDINATION TITLE-** 23 LMN 10 T2 Commissioning and Load Testing

**COORDINATION DATE-** September 11, 2023

**PROJECT-** Lower Monumental Lock and Dam

**RESPONSE DATE-** September 22, 2023

**Description of the problem-** The T2 commissioning (Main Units 5 and 6) are scheduled to come back in service on October 6 at 0900 hour but need to be fully tested first. For the first step of the load testing, MU5 and MU6 need to operate at a 50% load capacity for 12 hours or until the windings and oil inside the transformer temperatures stabilize. The second step of the load testing is to operate MU5 and MU6 at 100% load capacity for 24 hours.

**Type of outage required:**

**Impact on facility operation-** To complete the T2 testing, Units 5 and 6 will need to be operated out of priority for the 36 hours of testing on two consecutive days, October 6 and 7. Estimated time of RTS is October 7 at 2100 hours.

**Impact on unit priority-** Priority is Unit 1 to Unit 6, in order (FPP, Chapter 7, Table LMN-5). Water level is expected to be insufficient to operate Unit 1, as well as Units 5 and 6 for testing. Units 5 and 6 will be operating out of out of priority order.

**Impact on forebay/tailwater operation-** Testing will not impact forebay or tailwater elevations.

**Impact on spill-** Testing will not impact spill.

**Dates of impacts/repairs:** Testing period is scheduled for October 6-7.

**Length of time for repairs-** October 6, 0900 hours to October 7, 2100 hours.

**Analysis of potential impacts to fish**

**Summary statement - expected impacts on:**

On average, 2,722 adult salmon pass Lower Monumental Dam daily on October 6 and 2,429 adult salmon pass Lower Monumental Dam on October 7. Approximately 63% of the adults passing the dam are steelhead and 7% are fall Chinook salmon.

Type of impact by species and age class (increased delay, exposure to predation, exposure to a route of higher injury/mortality rate, etc.).

Upriver migrants including fall Chinook salmon and steelhead may be delayed passing the project with the change in unit priority.

Juvenile salmon and steelhead should not be affected by unit testing. Juvenile collection fish collection at Lower Monumental has not occurred in October to give 10-year average of dam collection.

Daily Adult Fish Counts at LMN for October 6							
Year	Chinook	Jack Chinook	Steelhead	Wild Steelhead	Sockeye	Coho	Jack Coho
2022	141	144	1620	400	0	381	11
2021	186	193	930	197	0	799	40
2020	90	125	1333	391	1	128	25
2019	107	77	626	188	0	189	38
2018	87	165	1137	240	0	27	3
2017	280	110	1608	296	0	193	43
2016	126	98	2457	587	0	48	7
2015	406	164	1992	507	0	20	7
2014	152	181	1965	496	0	153	23
2013	201	170	3598	1161	0	124	34

Daily Adult Fish Counts at LMN for October 7							
Year	Chinook	Jack Chinook	Steelhead	Wild Steelhead	Sockeye	Coho	Jack Coho
2022	82	102	1351	335	0	330	38
2021	133	66	501	112	0	404	18
2020	99	107	1145	323	1	65	9
2019	122	73	756	216	0	333	42
2018	105	181	1171	232	0	39	6
2017	255	125	2260	343	0	285	72
2016	125	150	2650	579	0	53	15
2015	270	91	1471	332	0	15	8
2014	173	197	1928	537	0	230	7
2013	154	147	2372	790	0	143	13

10 Year Average for October 6-7						
Chinook	Jack Chinook	Steelhead	Wild Steelhead	Sockeye	Coho	Jack Coho
339	279	3233	824	0	332	49

**Downstream migrants-Minimal impact.**

**Upstream migrants (including Bull Trout)**- Upriver migrants may experience upstream delay as priority unit attraction water shifts during 36-hour testing. The 10-year average number of bull trout observed at Lower Monumental Dam 6=7 October is 0.

**Lamprey**- Minimal. The 10-year average for lamprey counts at Lower Monumental Dam during 6-7 October is 1.

**Comments from agencies**

**Final coordination results**

**After Action update**

Please email or call with questions or concerns.  
Thank you,

Denise Griffith  
Fish Biologist  
Lower Monumental Lock and Dam  
(509) 282-7211

[denise.s.griffith@usace.army.mil](mailto:denise.s.griffith@usace.army.mil)