

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

**COORDINATION TITLE-** 20 LMN 02 - Unit Priority after Return of Unit 2

**COORDINATION DATE-** 6 May 2020

**PROJECT-** Lower Monumental Dam

**RESPONSE DATE-** 14 May 2020

**Description of the problem**

The current unit priority for Lower Monumental in the FPP is listed below:

Season	Unit Priority Order
March 1 – November 30 Fish Passage Season	<u>DEFAULT</u> = 1, 2, 3, 4, 5, 6  <u>MODIFIED ORDER for Unit 2 w/ Fixed-Blades*</u> Start-up (U1 available): 1, 3, 4, 5, 6, 2* Start-up (U1 not available): 2*, 3, 4, 5, 6 Shutdown: 6, 5, 4, 3, 2*, 1
December 1 – End of February Winter Maintenance Period	Any Order

\*Unit 2 has hydraulically locked blades and is operated in the priority order to minimize starts/stops. When Unit 1 is unavailable, Unit 2 will be first priority for fish passage. When the blade seals are replaced, Unit 2 will resume operating in its default order.

At Lower Monumental, Unit 2 is still out of service for draft tube liner repair and blade seals and is not expected to return to service before summer of 2020. Unit 2 will return as Kaplan unit. Units 4 and 5 were forced out of service last year and returned December 31 and 23, respectively, as fixed blade units. According to the FPP units 4 and 5 are higher in priority than unit 6. However, decreasing the amount of times Units 4 and 5 are started and stopped is necessary to protect the temporary repairs. The project is proposing to move Unit 6 ahead of Units 4 and 5 in unit priority. See recommended changes in proposed table below.

Season	Unit Priority Order
March 1 – November 30 Fish Passage Season	<u>DEFAULT</u> = 1, 2*, 3, 4, 5, 6  <u>MODIFIED ORDER for Units 4 and 5 w/ Fixed-Blades*</u> Start-up (U2 unavailable): 1, 3, 6, 4, 5 Start-up (U2 available): 1, 2, 3, 6, 4, 5 Shutdown: 5, 4, 6, 3, 2*, 1
December 1 – End of February Winter Maintenance Period	Any Order

\*Units 4 and 5 have hydraulically locked blades and are operated in the priority order to minimize starts/stops. When Unit 2 returns, it will return as a Kaplan and be the second priority unit for fish passage.

## **Type of outage required**

### **Impact on facility operation/ Impact on unit priority**

Unit priority will be slightly different, making Unit 6 third in priority without Unit 2 and fourth in priority when Unit 2 returns to service.

### **Impact on forebay/tailwater operation**

N/A

### **Impact on spill**

N/A

## **Dates of impacts/repairs**

Impacts would last from now until the end of Adult Passage season on 30 November, 2020

## **Analysis of potential impacts to fish**

### **Summary statement - expected impacts on:**

#### **Downstream migrants**

This change is expected to have very little impact on juvenile salmonids as the turbines will remain operating within 1% peak efficiency.

#### **Upstream migrants (including Bull Trout)**

This change is expected to have very little impact on adult salmonids as Unit 1 is still being used as first priority unit. The second priority unit is the next available unit from the north side, Unit 3. When Unit 2 returns to service, the three most northern units will be highest priority as the default order suggests.

#### **Lamprey**

## **Comments from agencies**

## **Final coordination results**

## **After Action update**

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

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