

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

COORDINATION TITLE- *14BON13 T11 and T12 outages in 2014-2016*

COORDINATION DATE- **02 June 2014**

PROJECT- **BONNEVILLE Lock and Dam**

RESPONSE DATE- **20 June 2014**

Description of the problem- T11 and T12 outages in 2014 and 2015 were coordinated in MOC 13BONO01. There is a need to revisit the outage dates and coordinate a start date of 2 September instead of 8 September in 2014 and 1 September instead of 8 September in 2015.

Currently coordinated T11 Outage: 8 September 2014 through 06 November 2014

Currently coordinated T12 Outage: 8 September 2015 through 06 November 2015

Proposed T11 Outage: 2 September 2014 through 06 November 2014

Proposed T12 Outage: 1 September 2015 through 06 November 2015

In addition to the start date change for 2014 and 2015, there is another T11 outage request to coordinate. This new outage would be scheduled for 1 September 2016 through 31 October 2016. BON needs 1 week for preparation, the contractor needs four weeks, and then BON needs an additional week for clean-up and getting the units back online.

Proposed T11 Outage: 1 September 2016 through 31 October 2016.

Type of outage required- T11 and T12 will each take four units out of service at a time. T11 has units 11-14. T12 has units 15-18

Impact on facility operation- Four units at PH2 will be unavailable. Units at PH1 will likely be operated instead.

Dates of impacts/repairs- September – 6 November 2014-2015. September – 31 October 2016.

Length of time for repairs- up to eight weeks.

Expected impacts on fish passage-

Bull Trout- Occurrence in Action Area. Of the five distinct population segments (DPS) of bull trout listed as threatened by the USFWS, the Columbia River DPS is the only one that is likely to occur in the vicinity of the proposed project. Historically, bull trout of the Columbia River DPS likely ranged through much of the Columbia River Basin with spawning and rearing occurring in the coldest creeks, often at higher elevations. Presently, bull trout of the Columbia River DPS are distributed in a more fragmented pattern throughout the Columbia River Basin with fewer adult migratory fish and fewer, more compressed spawning reaches than historically occurred.

WDFW and Corps personnel provided a list of anecdotal sightings/captures of bull trout in the mainstem Columbia River. From 2000 through 2012 there were eleven bull trout reported. Three were downstream of Bonneville Dam, with two at the mouth of Hamilton Creek (RM 143) and one in 2005 at the Bonneville Dam Smolt Monitoring Facility (RM 144). Upstream of the dam, one bull trout was found at Cascade Locks (RM 149), two at Drano Lake (RM 162), two at the mouth of the Klickitat River (RM 180.5), one in 2002 at the John Day Dam Smolt Monitoring

Facility (RM 215), and one sighting at Dog Creek Falls by a reputable WDFW creel sampler who observed 18- to 24-inch cuts or dollies working old redds below the splash pool over the course of two weeks.

Fish passage data from the Bonneville Dam fish ladders (Corps, unpublished) show only three sightings of bull trout moving through the fish ladders for 2000 through 2011 during the fish counting season (April 1 through October 31). These sightings occurred between May 30, 2009 and June 2, 2009 and were reported as '12-inch bull trout moving upstream' through the count window on each occasion.

Downstream passage- T12 would be taken out of service in July, keeping south units in operation to maximize attraction to the B2CC. T11 would be in service for the duration of spill season and B2CC operation. This keeps the south PH2 units in service to assist in attracting fish to the B2CC. PH1 units would remain in service and in FPP criteria.

Upstream passage- Below are two tables showing the five year average adult fish passage (by species) for each transformer outage. Also noted are the high passage years and the low passage years.

Table 1. Bonneville Bradford Island 5-year average Fish Passage Numbers for 2008 – 2012 During T11 and T12 Proposed Outages.

Date		All Chinook	Clipped Steelhead	Unclipped Steelhead	All Coho	Sockeye	Chum	Pink
8 Sep - 6 Nov	Average	76617.2	16310	5573.2	30326.4	2	11	128
T11 outage (U11-14)	High/year	133852 2011	20212 2011	7345 2011	47832 2011	7 2008	16 2010	632 2011
	Low/year	32759 2009	12985 2010	4634 2010	14651 2012	0 2010-12	3 2012	0 2008,12

Table 2. Bonneville Washington Shore 5-year average Fish Passage Numbers for 2008 – 2012 During T11 and T12 Proposed Outages.

Date		All Chinook	Clipped Steelhead	Unclipped Steelhead	All Coho	Sockeye	Chum	Pink
8 Sep - 6 Nov	Average	160070.2	31501.4	9949.4	69763.4	2.6	32.4	475.8
T11 outage (U11-14)	High/year	233320 2010	45314 2009	14110 2009	124658 2009	5 2008,10	52 2010	2326 2011
	Low/year	93585 2008	33164 2010	7505 2012	24083 2012	0 2009,2011	4 2011	0 2008,2010

Comments from agencies

Final results- Approved at 12 June 2014.

Please email or call with questions or concerns.

Thank you,
Tammy

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