

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 14BON83 WS Fish Viewing Building Roof repair.

COORDINATION DATE- 16 December 2014

PROJECT- Bonneville Lock and Dam

RESPONSE DATE- 5 January 2015

Description of the problem – The Washington Shore Fish Viewing Building roof has been leaking for quite a few years. The Small Projects Team is working on a contract to have the roof repaired. The target timeframe is late July – early August. The work is expected to take two weeks. A contract should be in place by late April, this will allow FPOM to review the work plan before work begins.

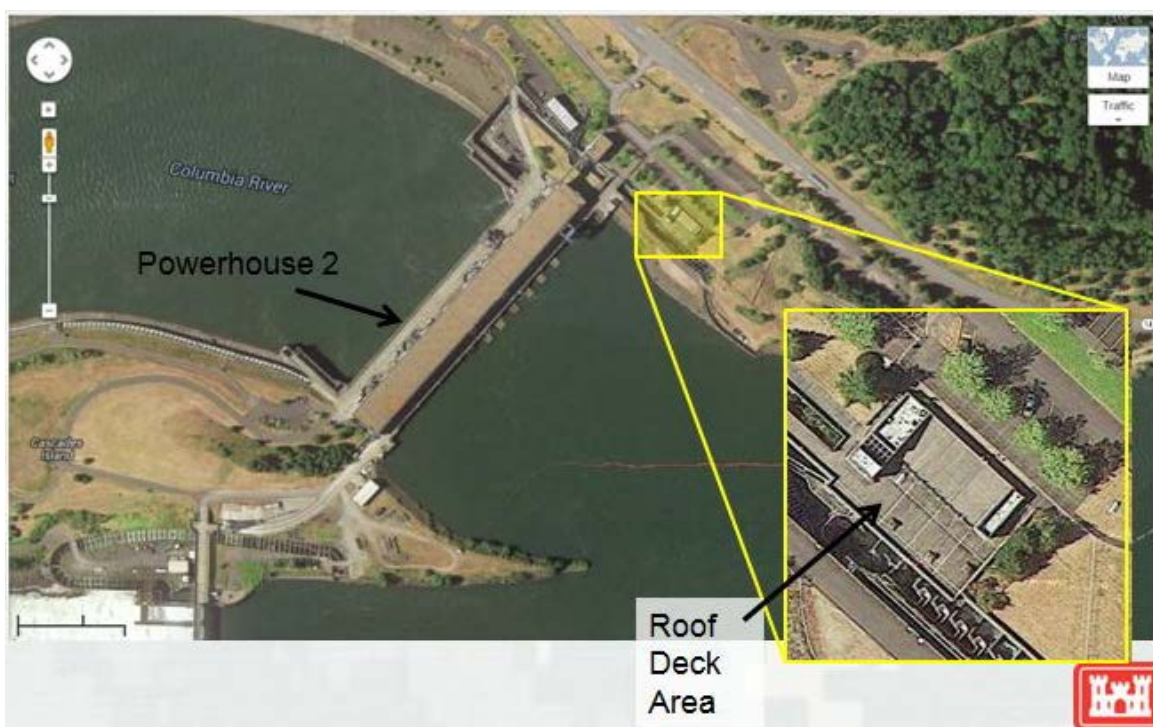


Photo 1. Aerial view of Powerhouse 2 and the Washington Shore fishway.

Repairs include the removal of caulking in the expansion joints, pressure washing the entire surface, and laying a rhino-liner like material over the top. The work area will include the flat surface with the sloped section as an optional item.

Caulking removal will be completed by hand. There will be no heavy equipment used. The only equipment likely to cause noise/vibration would be the pressure washer. Water will not drain into the fishway. The pressure washer will be used to clean the surface so a durable coating may be applied.



Photo 2. Close up of the roof area to be repaired and the caulking to be removed.

Type of outage required – The Fish Viewing Building may be closed to visitors, or have restricted areas, during the repairs.

Impact on facility operation – There will be no impact on the facility operation. Fish Counters will still have access to the count station.

Dates of impacts/repairs – The contract will be final by late April. Work on the roof would be in late July – early August.

Length of time for repairs – No more than two weeks.

Expected impacts on fish passage – Monthly updates will be provided to FPOM to ensure contract changes do not impact fish passage.

Upstream passage – This work will occur within This work will occur within 50’ of the fishway, however, it is expected that noise/vibration will be minimal since no heavy equipment will be used.

Table 1. 10-yr average (2005 – 2014) Fish Counts for BON by Ladder and Species.

DATE	Chinook		Steelhead		Coho		Sockeye	
	WS	BI	WS	BI	WS	BI	WS	BI
7/24	393	240	2641	1445	0	0	149	61
7/25	376	202	2820	1458	0	0	114	39
7/26	338	234	2728	1623	0	0	90	41
7/27	398	262	2775	1701	0	0	87	33
7/28	395	253	3087	1771	0	0	68	30
7/29	351	225	2961	1622	0	0	58	25
7/30	321	232	3121	1721	0	0	39	19
7/31	281	226	2861	1728	0	0	35	18
8/1	330	228	3515	1822	1	0	39	14
8/2	302	172	3062	1695	1	0	29	10
8/3	292	187	2925	1969	1	0	21	9
8/4	279	197	2719	2018	1	2	18	6
8/5	271	208	2670	2038	2	1	17	6
8/6	318	279	2759	2264	3	2	15	6

There tends to be a lull in most salmonid passage in late July – early August. There are still high numbers of steelhead passing during this time, but overall passage tends to be relatively low. This drop in passage has allowed BON to conduct mid-season ROVs and take care of some fish unit brushing maintenance in the past. Focusing on this time period will allow for drier weather and fewer fish. It should also allow the building to re-open to visitors prior to the coho and fall Chinook run starting.

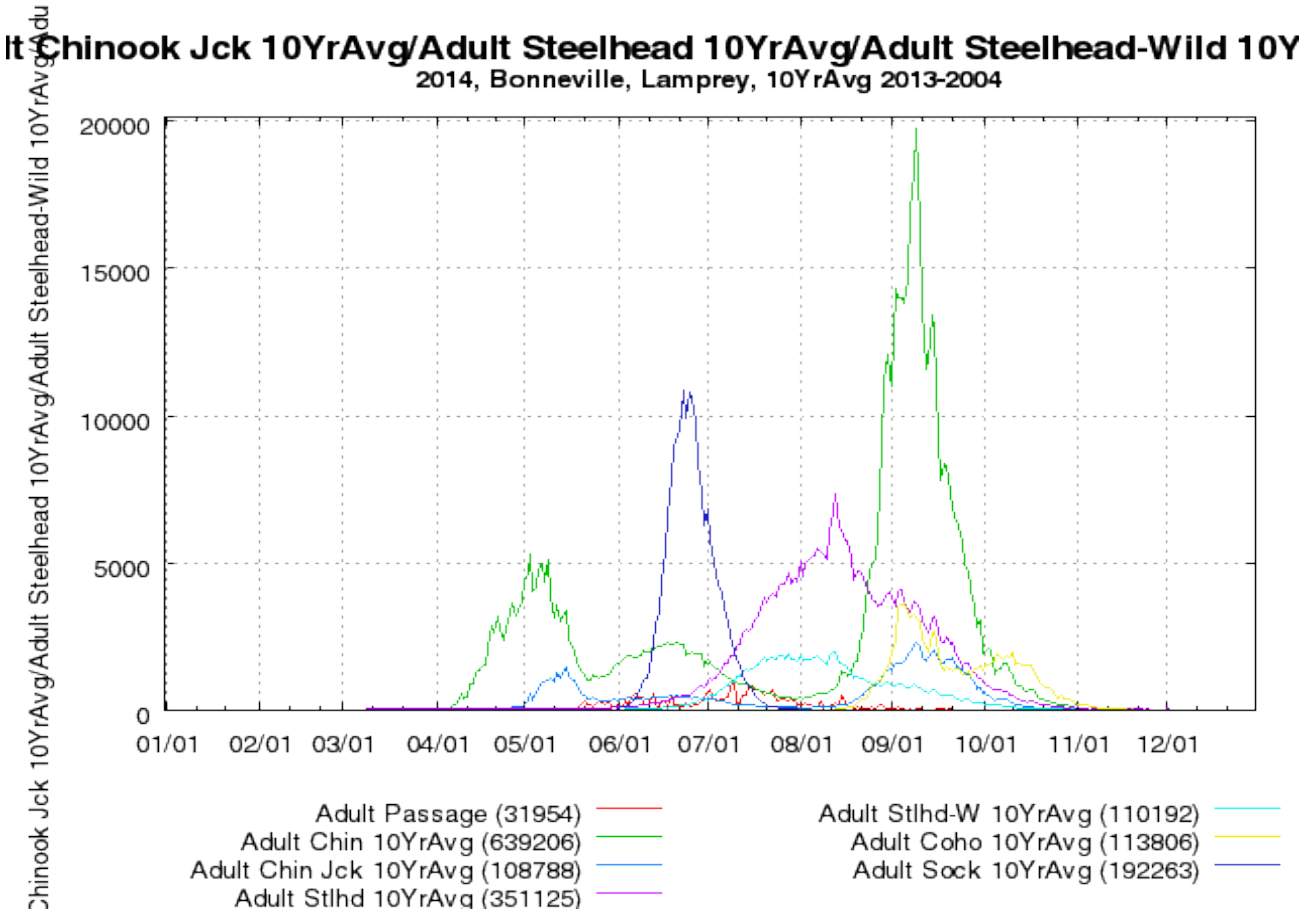


Figure 1. 10 year average passage data for BON (2004 – 2013)

DART Data Citation

Columbia River DART, Columbia Basin Research, University of Washington. (2014). Available from http://www.cbr.washington.edu/dart/query/adult_graph_text

Generated

15 Dec 2014 14:41:55 PST. Columbia River DART (Data Access in Real Time)

www.cbr.washington.edu/dart.

Downstream migrants – this work will not occur within 50’ of a downstream passage facility.

Lamprey – This work will occur within 50’ of lamprey passing through the Washington Shore ladder but work will occur during the day, when fewer lamprey are passing the ladder.

Comments from agencies

BON Rangers - -----Original Message-----

From: Webb, Gregory A NWP

Sent: Wednesday, December 17, 2014 10:19 AM

To: Perletti, Kevin P NWP; Hausmann, Ben J NWP
Cc: Popescu, Corina NWP; Adams, Michael D NWP; Fox, Jessie A NWP; Fowler, William B NWP; Barry, Patrick NWP
Subject: RE: draft MOC 14BON83 fish viewing building roof repair (UNCLASSIFIED)
Classification: UNCLASSIFIED
Caveats: NONE

Ok,

Concerns over fish passage and contract slippage are understandable.

I/we appreciate fisheries considering the July-August timeframe vs. just pushing it back to the winter.

This project does have the potential benefit of not just helping to ensure the proper function for fish viewing, but also fish counting which is of course of key interest to the regional fisheries managers.

Water has previously and still occasionally leaks into critical points of the building such as electrical and equipment rooms which is an obvious bad combination. Damage to the electrical systems and/or loss of power would obviously negatively impact the fish count station and process.

The efforts we have been collectively working on to reduce and eliminate the leaks in that facility are greatly appreciated. While this may not be the silver bullet to end all leaks in it, it should greatly assist.

Thanks

Greg

141218 FPOM meeting. 14BON83 WS Fish Viewing Building Roof repair. *Approved.* FPOM recommended using a 50' hose so the contractor will be outside the 50' buffer.

Final results- FPOM concurred with moving forward. They will be expecting monthly updates from Small Projects.

Please email or call with questions or concerns.

Thank you,

Tammy

Tammy Mackey

NWP Operations Division Fishery Section

Columbia River Coordination Biologist

503-961-5733

Tammy.m.mackey@usace.army.mil