

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

COORDINATION TITLE- FOG Bulkhead swap-out

COORDINATION DATE- 6/10/2021

PROJECT- Bonneville Dam

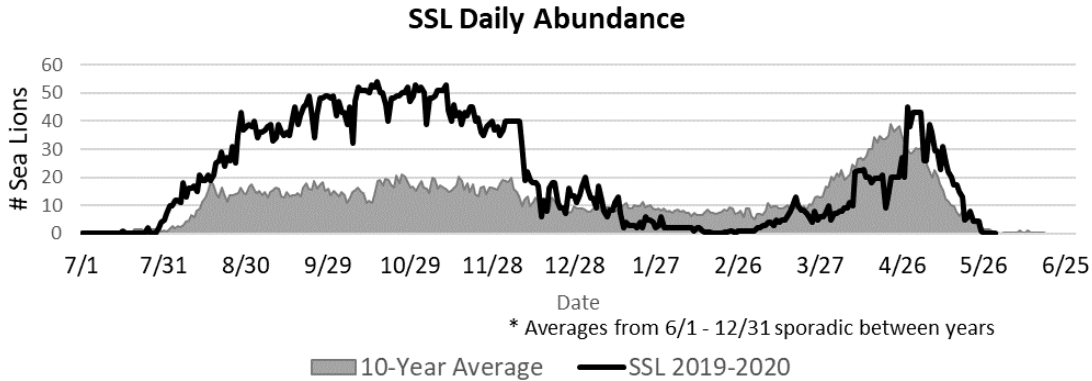
RESPONSE DATE- 6/11/2021

Description of the problem

Bonneville has been working on FOG bulkhead refurbishment. It's an ongoing Work Order that we have been working on for several years. There are 12 new FOG bulkheads that need to be swapped out with older ones that are currently being used in the PH2 Collection Channel so that the old ones can be refurbished.

Each FOG Bulkhead slot has two bulkheads in it, so performing the swap means that the slot being tended to would be wide open for about 10 minutes as the bottom bulkhead is removed and a new one installed in its place.

We would like to do this work the week of June 14-17. Sea lions are likely to begin returning as summer Chinook numbers ramp up, so we would like to get this done while there are no Sea Lions present and Chinook numbers are still low. Waiting could keep the work from being accomplished until February.



Type of outage required

Impact on facility operation (FPP deviations)- PH2 collection channel will have FOG bulkheads removed for approximately 6 ten minute windows.

Impact on unit priority none

Impact on forebay/tailwater operation none

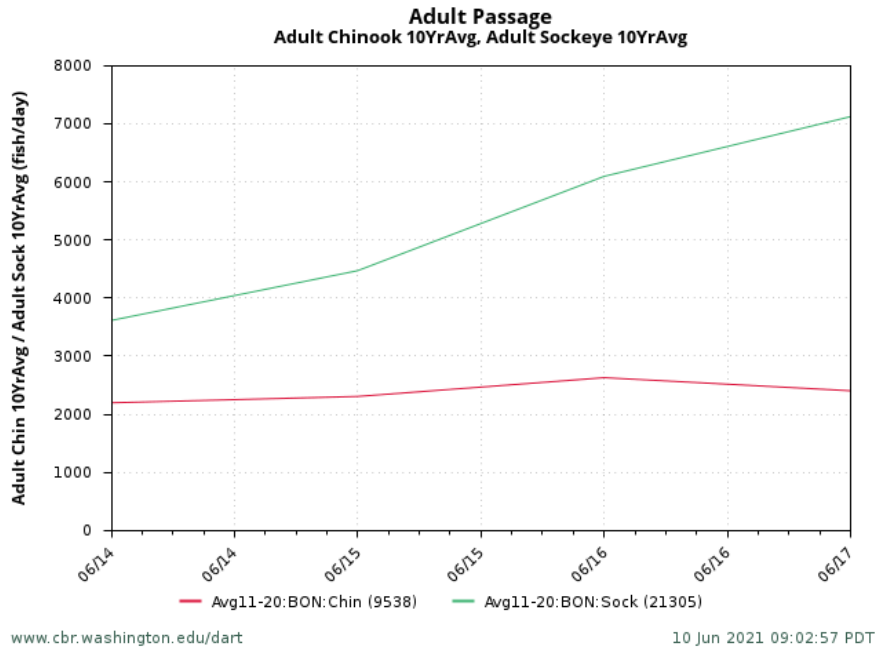
Impact on spill none

Dates of impacts/repairs- One day during the week of June 14-17

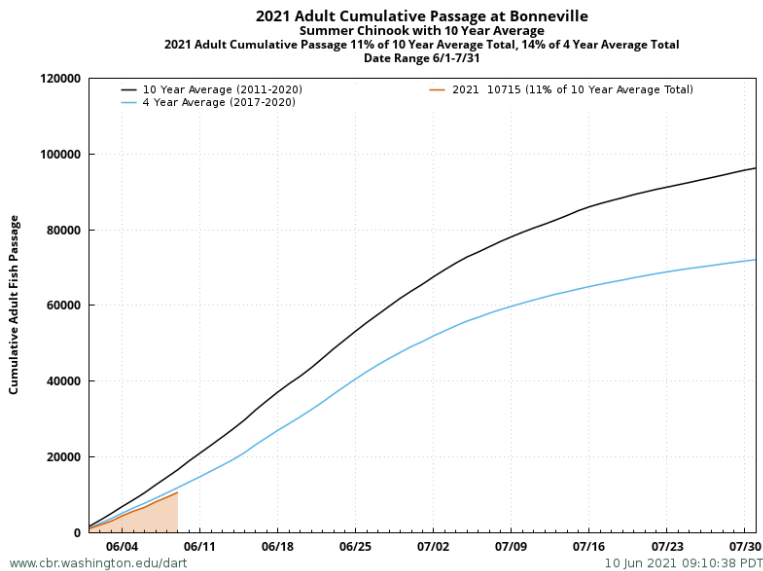
Length of time for repairs 60 min total

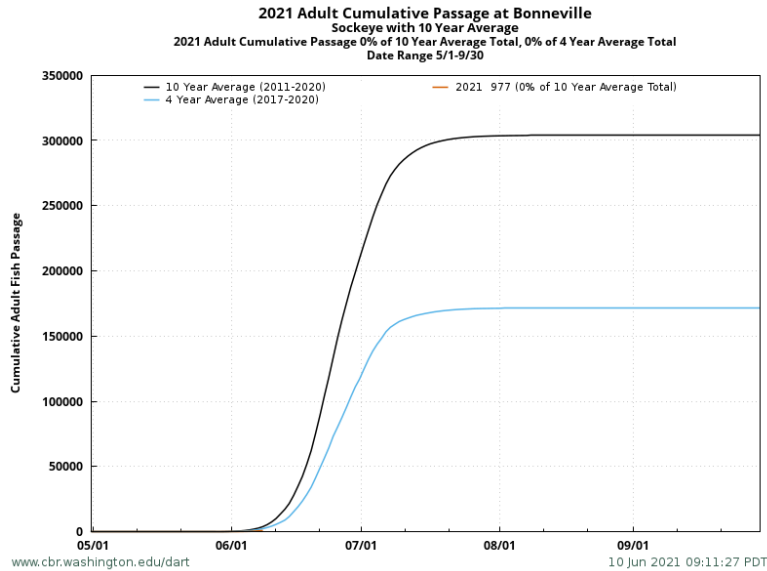
Analysis of potential impacts to fish

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;



2. Statement about the current year's run (e.g., higher or lower than 10-year average);





Summer Chinook, Sockeye, and lamprey numbers are all below the 10 year average.

- Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);

	Chinook 10Yr	Steelhead 10Yr	Sockeye 10Yr	Lamprey 10Yr
6/14	2256	163	3831	218
6/15	2285	191	4497	216
6/16	2573	195	5964	277
6/17	2435	217	7167	316

- 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.);

It is possible that some of the upstream migrating in the CC could fall out while FOGs are removed. Without Sea Lions present, this would cause a delay without a major change in predation risk. If this work is postponed to a time when sea lions are present, predation risk would increase. There would also be the possibility of Sea Lion entry into the fishway.

Summary statement - expected impacts on:

Downstream migrants- none

Upstream migrants (including Bull Trout)- minor delay caused by possible fallback out of the collection channel. Overall the risk is estimated to be very small due to the short outage window (10 minutes per slot).

Lamprey- minor delay caused by possible fallback out of the collection channel. Overall the risk is estimated to be very small due to the short outage window (10 minutes per slot).

Comments from agencies via email

----- WDFW -----

From: Morrill, Charles (DFW) <Charles.Morrill@dfw.wa.gov>
Sent: Thursday, June 10, 2021 1:11 PM
To: McClain, Nathan A CIV USARMY CENWP (USA)
Subject: [Non-DoD Source] RE: FPOM Official Coordination: 21 BON 011

Hi Nathan,
Doing this work now makes sense to me/WDFW
Others ?
Charlie

----- USFWS -----

From: Swank, David R <david_swank@fws.gov>
Sent: Thursday, June 10, 2021 1:17 PM
To: McClain, Nathan A CIV USARMY CENWP (USA)
<Nathan.A.McClain@usace.army.mil>; Derugin, Andrew G CIV (USA)
<Andrew.G.Derugin@usace.army.mil>
Subject: [Non-DoD Source] Re: [EXTERNAL] FPOM Official Coordination: 21 BON 011

Makes sense to do this asap.

Dave

----- CRITFC -----

From: Tom Lorz <lorz@critfc.org>
Sent: Thursday, June 10, 2021 1:21 PM
To: McClain, Nathan A CIV USARMY CENWP (USA)
Subject: [Non-DoD Source] Re: FPOM Official Coordination: 21 BON 011

I will stand by comments at the meeting we are fine with this work being conducted as discussed.

thanks

Tom Lorz
CRITFC

----- NOAA Fisheries -----

From: Trevor Conder - NOAA Federal <trevor.conder@noaa.gov>
Sent: Thursday, June 10, 2021 3:02 PM
To: McClain, Nathan A CIV USARMY CENWP (USA)
Subject: [Non-DoD Source] Re: FPOM Official Coordination: 21 BON 011

Nathan,

NOAA supports.

-Trevor

Final coordination results

After Action update (After action statement stating what the effect of the action was on listed species. This statement could simply state that the MOC analysis was correct and the action went as expected, or it could explain how the actual action changed the expected effect (e.g., you didn't need to close that AWS valve after all, so there was no impact of the action). List any actual mortality noted as a result of the action)

Please email or call with questions or concerns.

Thank you,

Nathan & Andrew

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