

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- The Dalles Dam Diffuser Valve Maintenance Plan

COORDINATION DATE- 11 September 2018

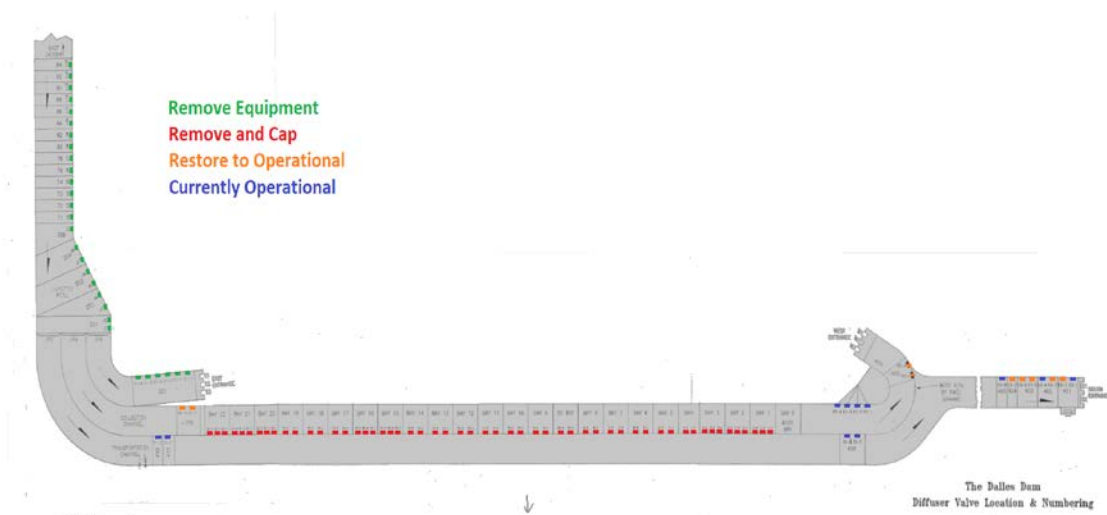
PROJECT- The Dalles Dam

RESPONSE DATE- 25 September 2018

Description of the problem

Many of the diffuser valves at The Dalles are no longer used due to semi-permanent closure of entry gates along the collection channel. They have been closed for many years and will remain closed. Project maintenance proposes to remove all operating mechanisms associated with these valves. In addition there are numerous diffuser valves in the junction pool, east entrance and lower east ladder that remain open and will not be closed under any foreseeable circumstance. Therefore it is proposed that these valve and mechanism be removed to eliminate unnecessary maintenance. The following chart shows valves and proposed plan. West entrance, south entrance and transportation channel diffuser valves will remain operational due to the potential closure needed in the event of using the AWS emergency backup system.

An additional larger diagram of the diffusers is attached.



Additionally:

All Fish Elevator diffusers, E4-1, -2, -3, -4, maintain operational

All North Fishway diffusers 1-A, -B, -C, -D, -E, -F, -G, -H, N-1, -2, -3, -4, -5, -6, -7, -8, -9, Remove Equipment

Type of outage required

No outage required. Work to be completed during the IWWP.

Impact on facility operation (FPP deviations)

None

Impact on unit priority

None

Impact on forebay/tailwater operation

None

Impact on spill

None

Dates of impacts/repairs

Dec-Feb. Years unknown. Funding dependent.

Length of time for repairs

Multiple years

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);
3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);
4. 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.);

Summary statement - expected impacts on:**Downstream migrants**

No impact

Upstream migrants (including Bull Trout)

No impact. Potential benefit by removing unnecessary equipment in fishway.

Lamprey

No impact

Comments from agencies**CRITFC-**

-----Original Message-----

From: Tom Lorz [mailto:lort@critfc.org]

Sent: Wednesday, September 19, 2018 3:09 PM

To: Kovalchuk, Erin H CIV USARMY CENWP (US)

<Erin.H.Kovalchuk@usace.army.mil>

Subject: [Non-DoD Source] TDA MOC on Diffusers

Could not find the original email with this attached. Couple of questions has someone at the COE run a hydraulic eval on this? If so could you share with us, maybe in the original MOC. I am a little quessy about getting rid of all of these devices. Along the collection channel is ok, the other areas not as certain. Would be could to have hydraulics check and make sure that we can cover the full range of pools op if all of these diffusers where removed.

Thanks

But I can at lease support removal of the collection channel one right now and with more info possibly more.

Tom Lorz
CRITFC

Response-

-----Original Message-----

From: Cordie, Robert P CIV CENWP CENWD (US)
Sent: Wednesday, September 26, 2018 1:09 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
<Erin.H.Kovalchuk@usace.army.mil>; Tom Lorz <lort@critfc.org>
Subject: RE: TDA MOC on Diffusers

No official hydraulic eval, but I did briefly run it by Schlenker. I vaguely recall even discussing it back in the Randy Lee days. With the AWS/fish unit test coming the end of Nov, we'll discuss the long term diffuser plan further. More to come.

This work load is pretty extensive. We'll likely be retired well before it even starts. Once started it could take multiple years. Collection channel would be the first to go. Junction pool, east ladder and east entrance will come sometime after.

NOAA

From: Blane Bellerud - NOAA Federal <blane.bellerud@noaa.gov>
Sent: Thursday, September 27, 2018 9:16 AM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
Subject: [Non-DoD Source] Fwd: FPOM: Official Coordination 18TDA09 diffuser plan

----- Forwarded message -----

From: Ed Meyer - NOAA Federal <ed.meyer@noaa.gov
<mailto:ed.meyer@noaa.gov> >
Date: Mon, Sep 17, 2018 at 6:22 AM
Subject: Re: FPOM: Official Coordination 18TDA09 diffuser plan
To: Trevor Conder - NOAA Federal <trevor.conder@noaa.gov
<mailto:trevor.conder@noaa.gov> >, Blane Bellerud
<blane.bellerud@noaa.gov <mailto:blane.bellerud@noaa.gov> >

Trevor and Blane,

Has the Portland district conducted a hydraulic analysis/evaluation of the AWS systems and fishways to determine what equipment is needed to make sure the ladder and entrances can stay within criteria under the full range of forebay and tailwater levels? I would like to see the results of this analysis before closing off anything. Off the top of my head, I don't think that I would agree to removing the equipment on all the North Fishway diffusers (1-A,-B,-C,-D,-E,-F,-G,-H,N-1,-2,-3,-4,-5,-6,-7,-8,-9) (highlighted in green in the diagram). Let me know if you have any questions.

Ed

=====

Edward Meyer
Fish Passage Engineer
National Marine Fisheries Service - West Coast Region
1201 NE Lloyd Blvd, Suite 1100
Portland OR 97232

503/230-5411

On Thu, Sep 13, 2018 at 3:34 PM, Trevor Conder - NOAA Federal
<trevor.conder@noaa.gov <mailto:trevor.conder@noaa.gov> > wrote:

Ed,

Please take a look at this diffuser plan and see if it makes sense from a hydraulic perspective and let me know what your thoughts are. Thanks

-Trevor

Response

-----Original Message-----

From: Cordie, Robert P CIV CENWP CENWD (US)
Sent: Thursday, September 27, 2018 1:20 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
<Erin.H.Kovalchuk@usace.army.mil>; Ed Meyer (ed.meyer@noaa.gov)
<ed.meyer@noaa.gov>; Bellarud, Blane <blane.bellerud@noaa.gov>;
Trevor.Condor@noaa.gov
Subject: RE: [Non-DoD Source] Fwd: FPOM: Official Coordination 18TDA09
diffuser plan

We don't have an official hydraulic eval from district. Only conversations with hydraulic folks with no immediate objection to our plan. We'll do more consultation with district hydraulics on this issue, especially with the upcoming AWS testing.

For both east and north, we have not moved diffusers in many years. The only reason we ever moved them in the past was for isolating sections of the fishway for dewaterings in the late 90s. Otherwise we leave all but collection channel full open.

For the east, given the fact that AWS backup operation will not feed west and south, we chose to keep those functional.

For the north, we'll postpone that until we address all the east diffusers.

The whole idea is maintenance efforts on these valves is increasing with age. Many of the valves are stuck and require extensive labor to repair. Since they are never moved, we would like to spend funds and efforts on equipment we know is critical.

Can discuss more at next FPOM.

Final coordination results – This action will not go forward. There is not enough regional support on this issue.

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,
Erin

Erin Kovalchuk
NWP Operations Division Fishery Section
Columbia River Coordination Biologist
Erin.H.Kovalchuk@usace.army.mil

Bob Cordie
The Dalles Dam
Chief of Fisheries
Robert.P.Cordie@usace.army.mil