

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

**COORDINATION TITLE-** 23TDA11 TDA-E Diffuser Grating Repair

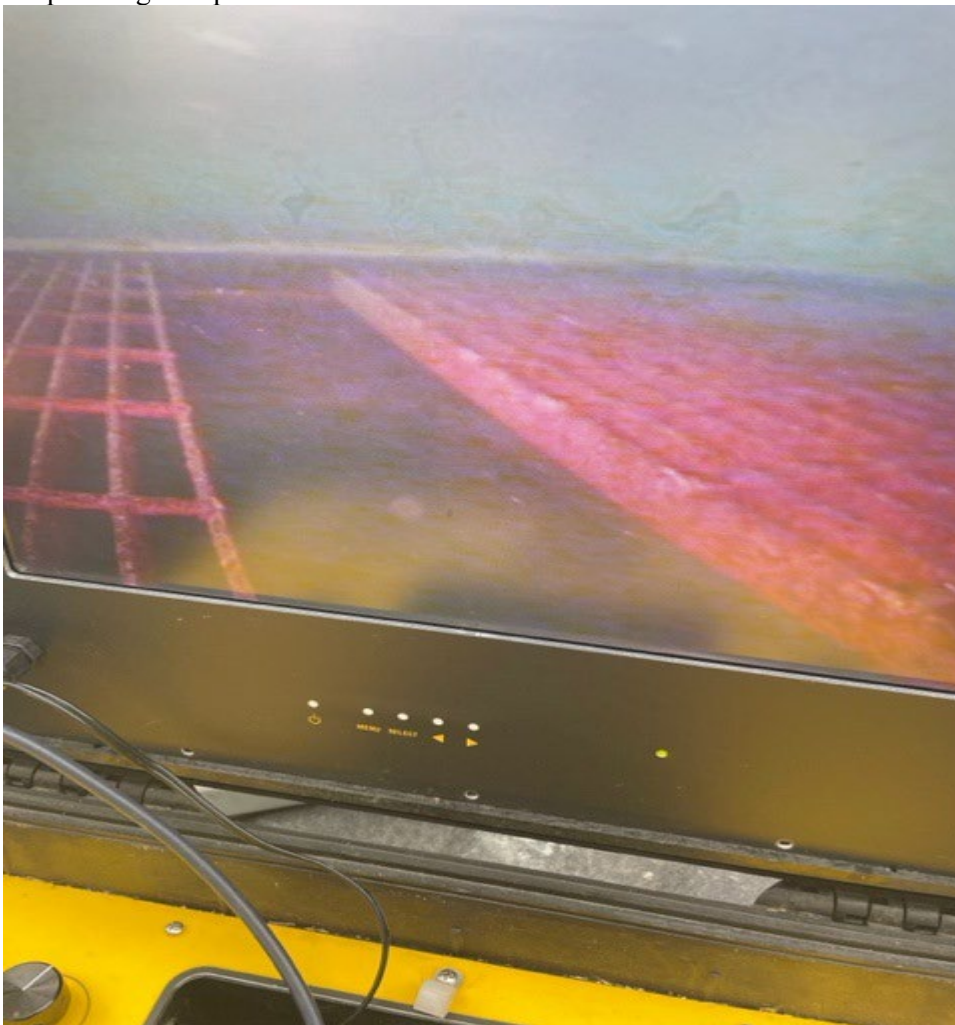
**COORDINATION DATE-** August 7, 2023. Updated on 17 August

**PROJECT-** The Dalles Dam

**RESPONSE DATE-** Aug FPOM meeting

**Description of the Problem**

During Aug 7 annual mid-season fishway grating ROV inspection, a 4-6” gap between grating panels was found just upstream of the east fishway entrance. Dive operations was notified to start the planning of repair ASAP.



If this repair is not made, there will be expected loss of mostly steelhead into the AWS conduit below the grating.

**Type of outage required** – Fish unit 1 and 2 required out of service for approximately 1 day for dive operations to occur.

**Impact on facility operation** – East fishway east, west and south entrances will lose attraction water for approximately 1 full day for repair.

**Dates of impacts/repairs** – Aug 16. Aug 17 will be available for contingency plan if problems

encountered.

**Length of time for repairs** – Approximately 8 hours. Includes unit shut down, clearance application, dive work and return to service procedures.

**Expected impacts on fish passage –  
Upstream migrants (including Bull Trout).**

All attraction flow will be stopped for the east fishway during this period. The north fishway will be in full operation during this time. Spillway flow levels are low, giving optimal fish attraction and passage conditions for the north fishway passage. Approximately 30% of all passage is using the north.

The following table shows present passage and 10 year average for proposed work date.

Chinook 8/6	Chinook 10yr 8/16	Steelhead 8/6	Steelhead 10yr 8/16	Sockeye 8/6	Sockeye 10yr 8/16	Lamprey 8/6	Lamprey 10yr 8/16
684	784	246	562	40	13	71	75

Chinook are on track to be equal or greater than the 10 year average for Aug 16. Steelhead will likely be less than half. Tail end of sockeye and lamprey should be similar. Coho are not expected to be present. Bull trout needs a lot more information.

**Downstream migrants.** No impacts expected. All juvenile passage systems will be in full operation

**Lamprey** – Lamprey passage rates through the ITS is unknown. No research information available

**Comments from agencies –.**

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

From: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>  
Sent: Thursday, August 17, 2023 9:54 AM  
To: Mackey, Tammy M CIV USARMY CENWP (USA) <Tammy.M.Mackey@usace.army.mil>; Tom Lorz <lorz@critfc.org>; Trevor Conder -NOAA Federal <trevor.conder@noaa.gov>; Bellarud, Blane <blane.bellerud@noaa.gov>  
Subject: RE: FPOM: Official Coordination - 23TDA11 MOC TDA-E diffuser repair - update

We're working through it now trying to come up with best case scenario. Trying to isolate the open grating area as much as possible before bringing the attraction flow back. Then we can at least get some passage in the west and south.

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

From: Mackey, Tammy M CIV USARMY CENWP (USA) <Tammy.M.Mackey@usace.army.mil>  
Sent: Thursday, August 17, 2023 8:34 AM  
To: Tom Lorz <lorz@critfc.org>; Trevor Conder -NOAA Federal <trevor.conder@noaa.gov>  
Cc: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>  
Subject: RE: FPOM: Official Coordination - 23TDA11 MOC TDA-E diffuser repair - update

Thanks Tom.

The dive team is scheduled to return on Tuesday to secure the openings through the season. During the IWW, the Project will dewater and

replace/refasten the grates more permanently. The only way we could have caught this sooner is if we did an ROV inspection sooner in the season.

Both will be on the September FPOM agenda.

Tam

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

From: Tom Lorz <[lort@critfc.org](mailto:lort@critfc.org)>

Sent: Wednesday, August 16, 2023 5:25 PM

To: Mackey, Tammy M CIV USARMY CENWP (USA)

<[Tammy.M.Mackey@usace.army.mil](mailto:Tammy.M.Mackey@usace.army.mil)>; Trevor Conder -NOAA Federal

<[trevor.conder@noaa.gov](mailto:trevor.conder@noaa.gov)>

Subject: [URL Verdict: Neutral][Non-DoD Source] Re: FPOM: Official

Coordination - 23TDA11 MOC TDA-E diffuser repair - update

I would strongly encourage that we get this buttoned up better if possible given the soon to appear and appearing fall chinook run. Can that be done or are we going to limp through this year. Also this coming winter maintenance it sounds like a thorough review of all grates will need to be completed and reinforcement added to where needed. Wish we could have caught this sooner.....

Please add this and the mysterious PH2 units tripping out issue to the FPOM agenda.

thanks

tom

---

**Final Coordination Results –**  
August FPOM meeting.

**After Action Update –**

On Aug 16, a dive was made to repair a small gap in the diffuser grating identified by a previous mid-season grating inspection. Multiple additional grating were found dislodged, leaving about 5 separate gaps. Approx a dozen fish were seen under the grating by divers, including 1 large sturgeon. The fish units will be held out of service overnight to prevent any more grating loss. Maintenance requires more time to procure and fabricate material for an adequate repair. Divers and maintenance staff will resume repair plans Tuesday Aug 22. In the meantime, with high number of expected fish passage for this time of year, the fish unit flow will be returned but under these conditions; closure of diffuser valves associated with the east entrance and its diffusers and only 1 fish unit (2500 cfs) to reduce the amount of stress on remaining grating. This will give opportunity for already entrapped fish to exit the diffuser chamber as well. Entrances will be adjusted with full flow from south and west entrance, and minimal opening at east entrance.

Please email or call with questions or concerns. Thank you,  
Bob Cordie  
TDA Project Fisheries  
541-506-7800

Tammy Mackey  
NWP Operations Division Fishery Section  
Columbia River Coordination Biologist

[Tammy.m.mackey@usace.army.mil](mailto:Tammy.m.mackey@usace.army.mil)