

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

COORDINATION TITLE- 22TDA05 East Fishladder Exit Oil Boom Installation

COORDINATION DATE- 4/14/22

PROJECT- The Dalles Dam

RESPONSE DATE- 4/22/22

Description of the problem – The permanent oil boom installed to protect the east fishladder from oil spills upstream failed last summer after several years of service. A new systems has been fabricated and is ready for installation. We missed last winter window for install due to lack of parts. The maintenance team is able to install April 28. This will be done via boat and crane support. It will require attachment brackets installed by drilling into the concrete and epoxy set anchors. All of this work will be within the 100' limit of the fishway exit, which requires consultation per Fish Passage Plan.

This operation will impact the JDA tailrace. JDA may need to reduce the outflow from the south fish turbines. Powerhouse entrances may be out of criteria due to the weirs bottoming out on the north end where the floor is at 150' msl. The south end should be ok since the floor is 148' msl. With this being one day, JDA Fisheries will monitor and adjust as needed.

Type of outage required – No outage

Impact on facility operation – Working within 100' of a fishway exit

Dates of impacts/repairs – 4/28/22

Length of time for repairs – ~6 hours for bracket install and 6 hours boom attach

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; *10 year average for total dam passage on April 28 is 2140 chinook and 4 steelhead.*
2. Statement about the current year's run (e.g., higher or lower than 10-year average); *Current year run is well short of 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); *Exposure will be to adult chinook and steelhead. Impact is unknown since very little information is available confirming vibration from this type of work negatively affects fish passage.*
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.); *If impact did occur, ~100 fish per hour would be affected.*

Summary statement - expected impacts on:

The risk assessment is; expose the fish ladder to potential oil spill from up river source (like train derailment) for 6 months, or have a potential passage delay of some spring chinook. Monitoring of count station can occur during this work and can be halted if obvious salmonid fallback occurs.

Comments from agencies

Umatilla/CRITFC –

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

From: Tom Lorz <lort@critfc.org>

Sent: Thursday, April 14, 2022 5:08 PM
To: Mackey, Tammy M CIV USARMY CENWP (USA)
<Tammy.M.Mackey@usace.army.mil>
Subject: [Non-DoD Source] Re: FPOM: Official Coordination - 22TDA05
East Fish ladder Exit Oil Boom Installation.

I can live with the work, schedule later am so we can the morning flush
of fish through, start at Noon?

thanks. See what NOAA has to say. With the way this year is going an
oil spill is not out of the question.

thanks

Tom Lorz
CRITFC

RCC/TDA/JDA-

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

From: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>
Sent: Tuesday, April 19, 2022 6:58 AM
Subject: RE: FPOM: Official Coordination - 22TDA05 East Fish ladder
Exit Oil Boom Installation.

Shooting for Apr28. One full workday to drill/attach the anchors.

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

From: Grosvenor, Eric G CIV (USA) <Eric.Grosvenor@usace.army.mil>
Sent: Tuesday, April 19, 2022 6:52 AM
Subject: RE: FPOM: Official Coordination - 22TDA05 East Fish ladder
Exit Oil Boom Installation.

We'll likely have to reduce the output from the SFL turbines to keep
the collection channel in criteria w/ channel velocities and entrance
head. The North entrances of the powerhouse will likely bottom out the
weirs and be out of FPP criteria. The floor of the channel is at 150'
on the North end and 148' on the South.

The TW yesterday afternoon at the NFL entrance was 158' and the
transition area looked fine. There was 2 overflow weirs submerged and
the channel was 160.5 in the transition area. There shouldn't be an
issue on the NFL. The plc should adjust pump output and keep the
entrance head at 1.5 at the fixed weir.

We'll monitor and adjust accordingly. When and how long is the
operation going to take place?

Thanks,

Eric

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

From: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>
Sent: Monday, April 18, 2022 3:34 PM
Subject: RE: FPOM: Official Coordination - 22TDA05 East Fish ladder
Exit Oil Boom Installation.

TD forebay is running 158.5 today. We were hoping for 156. No more than 157'. What will that do at entrances? And NFL transition?

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

From: Grosvenor, Eric G CIV (USA) <Eric.Grosvenor@usace.army.mil>
Sent: Monday, April 18, 2022 3:24 PM
Subject: RE: FPOM: Official Coordination - 22TDA05 East Fish ladder Exit Oil Boom Installation.

Not sure what the teletype says, but the TW at JD is very low right now. I don't think you can drop it much more than what it is now without affecting the NFL transition area.

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

From: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>
Sent: Monday, April 18, 2022 3:16 PM
Subject: RE: FPOM: Official Coordination - 22TDA05 East Fish ladder Exit Oil Boom Installation.

MOC doesn't state anything about JD entrances. But maybe we can add it in the results section, since the review is already underway.

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

From: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>
Sent: Monday, April 18, 2022 3:01 PM
Subject: RE: FPOM: Official Coordination - 22TDA05 East Fish ladder Exit Oil Boom Installation.

Good catch. Keeping JD entrances in criteria is priority. I don't think it was a problem last time. Eric, thoughts?

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

From: Baus, Douglas M CIV USARMY CENWD (USA) <Douglas.M.Baus@usace.army.mil>
Sent: Monday, April 18, 2022 2:53 PM
Subject: FW: FPOM: Official Coordination - 22TDA05 East Fish ladder Exit Oil Boom Installation.

Tammy and Bob,
I was drafting up a teletype for this.

Grabbed an old one from some other TDA low FBE.

See draft. The lingo in there RE JDA TW is from an old teletype. Is this going to cause a problem with the JDA TW?

Let me know if I should reach out to Aaron Marshall (Corps RCC) about this. The MOC talks about construction near a fishway but nothing RE JDA min TW.

Sincerely,
Doug

Doug Baus

Northwestern Division
U.S. Army Corps of Engineers
Office: 503-808-3995
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douglas.m.baus@usace.army.mil

Final coordination results

TDA will begin boom installation on 28 April, with the goal of having TW at 157' by 1100. A teletype will be issued with the TW constraints. JDA Fisheries will monitor fishway entrances to ensure FPP criteria compliance.

After Action: Work was postponed due to weir 155 failure resulting in a FB requirement of >157.7ft.

Please email or call with questions or concerns.
Thank you,

Patricia Madson
Bob Cordie