

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

COORDINATION TITLE- 20TDA12 Fish Unit 2 Forced Outage for Brush Repair

COORDINATION DATE- 10/28/20

PROJECT- TDA

RESPONSE DATE- 10/28/20

Description of the problem

Fish unit F2 is experiencing excessive brush wear which will result in electrical short failure if not addressed before the December scheduled outage. The outage will occur 10/29/20 during night hours 0400 – 0700 to reduce impacts to fish passage. Fish unit 1 will be in full operation during that time with maximum output, giving approximately 75% of the needed flow for entrance criteria. The AWS will not be opened due the short duration of outage.

Type of outage required - Fish Unit 2 only

Impact on facility operation (FPP deviations)

Reduction in entrance flow resulting in marginal entrance criteria conditions

Impact on unit priority

Fish unit priority during adult passage season

Impact on forebay/tailwater operation

None

Impact on spill

None

Dates of impacts/repairs

10/29/20

Length of time for repairs

2-3 hours

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; Majority of the fall passage (Chinook, Steelhead and Coho) already passed. 10 year average for Chinook on 10/29 is 321, Steelhead 173 and Coho 77.
<https://www.nwfsc.noaa.gov/research/divisions/fe/estuarine/oeip/g-forecast.cfm>
2. Statement about the current year's run (e.g., higher or lower than 10-year average); Chinook and Steelhead below 10 year average. Coho above 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 to Chinook, Steelhead and Coho adults
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.);

No direct mortality expected. Possible delay due to reduced entrance flow, but entrances will still maintain marginal criteria. Outage will be early morning when passage is minimal according to diel graph in Fish Passage Plan. North fish ladder will remain in full operation.

Summary statement - expected impacts on:

Downstream migrants

This work does not effect downstream passage.

Upstream migrants (including Bull Trout)

Potential delay to salmonids. No impacts are expected to Bull Trout since very few have been observed at The Dalles Dam.

Lamprey

This work is past the majority of the lamprey run. Reduced entrance flow usually benefits lamprey.

Comments from agencies

CRITFC

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

From: Tom Lorz <lort@critfc.org>

Sent: Wednesday, October 28, 2020 12:44 PM

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

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

Subject: [Non-DoD Source] Re: FPOM: Official Coordination 20TDA12 MOC F2 Forced Outage Brush Repair

thanks for the heads up. We are fine with this but this highlights the need to get a better understanding of how robust the AWS is and will debris be an issue. This time of year not likely but other times hard to say. the joys of old machinery. So if I understand this right this in only a one day outage?

thanks

tom lorz

CRITFC

RESPONSE:

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

From: Cordie, Robert P CIV (USA) <Robert.P.Cordie@usace.army.mil>

Sent: Wednesday, October 28, 2020 2:11 PM

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

<Erin.H.Kovalchuk@usace.army.mil>; Tom Lorz <lort@critfc.org>

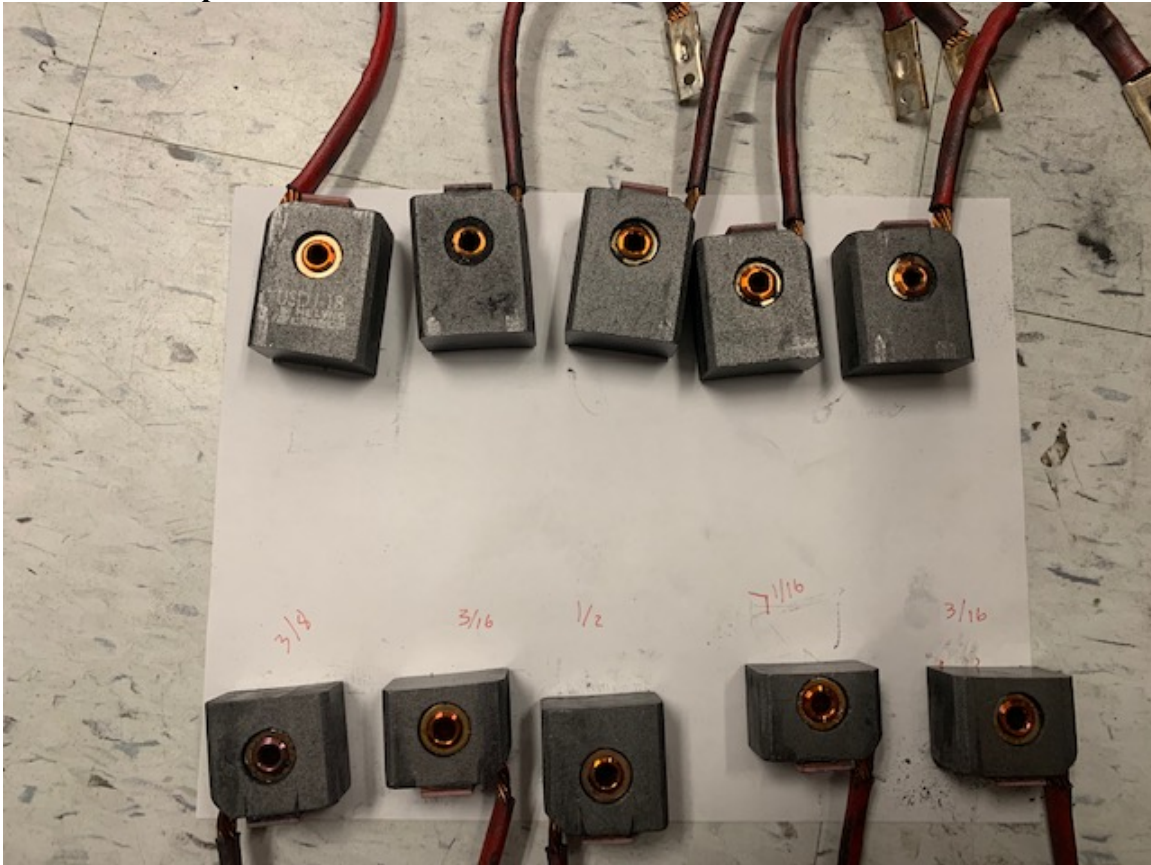
Subject: RE: FPOM: Official Coordination 20TDA12 MOC F2 Forced Outage Brush Repair

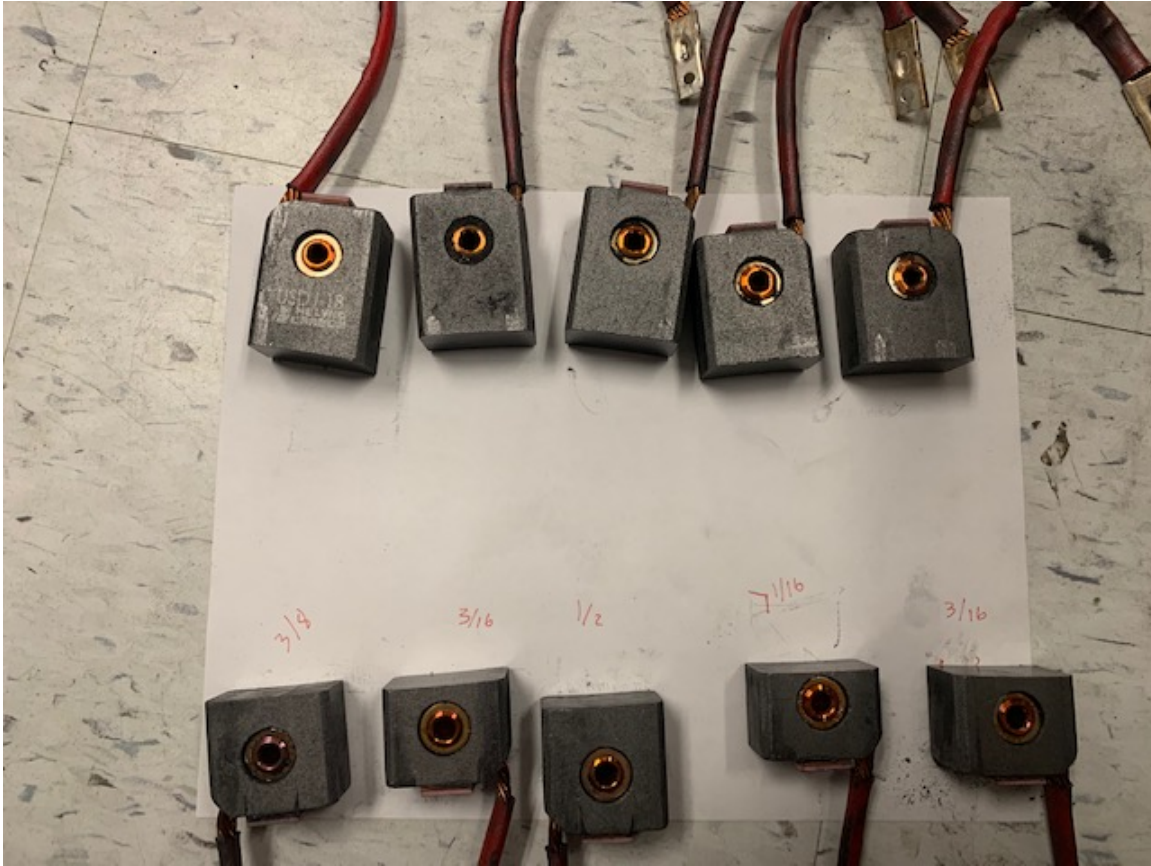
Its only 2-3hours to change out the brushes. We should be back to both units by first light. They said the other fish unit brush wear is not as urgent. They are trying to figure out why the excessive wear.

Agree, we need that \$40M hole in the dam to be useful when we need it. We'll keep pushing forward to get the debris issue resolved.

Final coordination results – This work will move forward as coordinated.

After Action update –





All brushes had excessive wear. One was within 1/16" of causing short, which would have been extended outage repair. Brush replacement will occur twice annually, during August grating inspection and winter outage.

F2 outage occurred from 0349-0700. Entrance differential was about half criteria.

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

And

Bob Cordie
Chief of Fisheries
The Dalles Dam