OFFICIAL COORDINATION REQUEST
FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 17TDA02 AWS March Daytime Work
COORDINATION DATE- Jan 24, 2017
PROJECT- The Dalles Dam
RESPONSE DATE- Jan 24, 2017

Description of the problem
Type of outage required – The AWS backup contract work recently encountered derelict crane beams buried where the 10' valve room is to be located. The top portion of these beams were removed via jackhammer in November to allow access to the concrete drilling location. However much of these beams remains below grade and requires removal for construction of the 10' valve room. Work has been approved for night only through March, previously coordinated though FPOM (ref 16TDA10).The unanticipated beams and recent weather conditions have created schedule setbacks challenging schedule milestones. Both USACE and contractors are responsible for maintaining the work schedule. Accelerated work will start in efforts to maintain within 2 IWWPs. Daytime work in March for the removal of the remainder of these beams and excavating the 10 valve vault room is being requested to meet schedule milestones. Work involves heavy equipment via excavation, concrete jackhammering and concrete saw cutting.
Full daytime work will be from March 1 - 12. From March 13 to 31 daylight work will continue, but with a 4 hour break at first daylight. Fish passage will be observed in the east count station. If there are obvious signs of fish passage impact, the team will be notified to determine options.

Impact on facility operation – Affect to AWS construction schedule.

Dates of impacts/repairs – Mar 1 – March 31, 2017

Length of time for repairs – 4 weeks

Expected impacts on fish passage –
Upstream migrants – Expected impacts unknown. Adult passage analysis from MOC 16TDA10;
Adult Steelhead – Passage of steelhead during March of 2003-2007 and 2012 TDA-E showed variability in daily passage though the month. Fish passage averaged less than 100 fish per day and had an average monthly passage of 72 fish over the period.
Adult Spring Chinook - Recent Spring Chinook passage data for the month of March at TDA is from 2003-2007 and 2012. From 2004-2007 and 2012 spring Chinook numbers passing TDA-E are similar and typically less than 5 fish per day. During March 2003, triple digit numbers of adult Chinook occurred by 3/14 and continued through the month when over 1000 chinook per day recorded on 3/30. Spring Chinook had an average monthly passage of 67 fish over the period. Both east and north ladders will be in FPP operating criteria during this time.
Chinook passage is generally small in March and should not be a concern, unless we see early returns like 2003. Steelhead passage is generally ~25/day first 2 weeks March and ~45/day last 2 weeks March. Both Chinook and steelhead see diel surge at first daylight (7AM to 11AM) which will be avoided with the 4 break during the last 2 weeks of March.
Jackhammer work was conducted on these beams in November, to clear work area. Observations were made at the count station during the work. Noise levels in the count station were very apparent. Eight steelhead and 4 Chinook were observed passing over a 3 hour period. Fish passage numbers

and behavior seemed normal, with no obvious reaction to the noise levels emitted by the jackhammering.

Downstream migrants – No impact expected due to location of work.

Lamprey – No impacts expected. Lamprey passage normally does not occur during March.

Bull Trout – impacts to Bull Trout are expected to be similar to other upstream migrating salmonids. Very few Bull Trout have been counted at TDA in the last 10 years. *"WDFW and COE provided a list of anecdotal sightings/captures of bull trout in the mainstem Columbia River. From 2000 through 2012 there were eleven bull trout reported. Three were downstream of Bonneville Dam, with two at the mouth of Hamilton Creek (CRM 143) and one in 2005 at the Bonneville Dam Smolt Monitoring Facility (CRM 144). Upstream of the dam, one bull trout was found at Cascade Locks (CRM 149), two at Drano Lake (CRM 162), two at the mouth of the Klickatat River (CRM 180.5), one in 2002 at the John Day Dam Smolt Monitoring Facility (CRM 215), and one sighting at Dog Creek Falls by a reputable WDFW creel sampler who observed 18-24" cuts or dollies working old redds below the splash pool over the course of two weeks.* "

Comments from agencies

FPOM meeting on 1/12/17: Fredricks requested that drilling not go all day and have breaks so that the fish can pass.

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-----Original Message-----
From: Tom Lorz [mailto:lort@critfc.org]
Sent: Thursday, January 19, 2017 1:26 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
<Erin.H.Kovalchuk@usace.army.mil>
Subject: [EXTERNAL] Re: 17TDA02 MOC AWS March Day work

I can support the idea of waiting in the am for an hour or so then
drilling away but giving breaks every once in awhile, is there any way to
monitor fish at the window when the ladder is back in service????,

-----Original Message-----
From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]
Sent: Thursday, January 19, 2017 2:27 PM
To: Kovalchuk, Erin H CIV USARMY CENWP (US)
<Erin.H.Kovalchuk@usace.army.mil>
Cc: Tom Lorz <lort@critfc.org>; Cordie, Robert P CIV CENWP CENWD (US)
<Robert.P.Cordie@usace.army.mil>; Mackey, Tammy M CIV USARMY CENWP (US)
<Tammy.M.Mackey@usace.army.mil>; Trevor Conder <Trevor.Conder@noaa.gov>
Subject: [EXTERNAL] Re: 17TDA02 MOC AWS March Day work

Erin,  Given the potential number of steelhead passing in March and the
need for these fish to be getting to their spawning areas, I am not in
favor of potentially four weeks of 24 hour, high vibration activity in
this location.   My advice is to either get this done in the first two
weeks or leave a four hour window for fish to pass during the mid-day
hours (or both).  I guess it would be good to hear from the other O&M
members on this one.  Thanks,  Gary
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Response from Cordie:

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-----Original Message-----
From: Cordie, Robert P CIV CENWP CENWD (US)
Sent: Thursday, January 19, 2017 4:53 PM
To: Gary Fredricks - NOAA Federal <gary.fredricks@noaa.gov>; Kovalchuk,
Erin H CIV USARMY CENWP (US) <Erin.H.Kovalchuk@usace.army.mil>
Cc: Tom Lorz <lort@critfc.org>; Mackey, Tammy M CIV USARMY CENWP (US)
<Tammy.M.Mackey@usace.army.mil>; Trevor Conder <Trevor.Conder@noaa.gov>;
Rerecich, Jonathan G CIV USARMY CENWP (US)
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<Jonathan.G.Rerecich@usace.army.mil>
Subject: RE: [EXTERNAL] Re: 17TDA02 MOC AWS March Day work

Forgot to mention, we can monitor the count station. If any obvious reaction to the hammering we can make adjustments to the work plan.

If like the hammering that was done in Nov, it was not constant. There were variable breaks for cleanup, equipment adjusting/repair, lunch.... Additionally, I suspect they may have it done in first 2 weeks. The Nov hammering went faster than anticipated.
Not to mention the outside beam is technically outside our ambiguous 50' requirement. Therefore, they can work on that one. Even though the sound level is likely no different than the inside beam.

I suggest we let them work straight through the first week. Then apply 2 or 3 hour work intervals the last couple weeks.

Final Action: The action will proceed as coordinated based on the comments received by NOAA and CRITFC.

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

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