OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 14BON06 CI TDG Sensor Replacement COORDINATION DATE- 17 March 2014 PROJECT- Bonneville Lock and Dam RESPONSE DATE- 19 March 2014.

Description of the problem- NWP needs to replace the in-water pipes which house water quality sensors below the Bonneville Dam spillway near Cascade Island. These sensors monitor TDG and temperature for the Corps water quality monitoring program. This is the third year that the pipes have failed, either due to welded sections failing or pipes being carried downstream.

NWP would like to install two 2.5 inch ID galvanized steel pipes that would extend about 100 feet into the spillway channel along the bottom to an approximate depth of 40 feet. Total pipe length, including out of water portion up river embankment, is about 140 feet. The two pipes would be attached to each other with brackets. There will be no welded sections, as pipe sections will be joined with couplings.

The pipe would lay perpendicular to shore and angled slightly downriver. Pipe will be anchored down by using anchors and galvanized chain to lie over the top. A flange will be attached towards the end of the pipe to reduce velocity induced vibration and pipe will be tied of at the end to shoreline.

Type of outage required- Spillway bays 2-17.

Impact on facility operation- Spillway bays 2-17 will be on seal. This will coincide with the spillway gate inspections occurring that same day.

Dates of impacts/repairs- 21 March from 0600 - 1800

Length of time for replacement- 1 day of in-water work and up to 3 days of finishing work on land.

Expected impacts on fish passage-

Downstream migrants- No expected impacts. The B2CC will remain open during the work. Work will be conducted about 750 feet from B2CC.

Upstream migrants- No expected impacts. Work will be conducted approximately 1200 feet from Cascades Island and Bay 1 will remain open.

Comments from agencies-BON Tech Staff----Original Message----From: Perletti, Kevin P NWP

Sent: Monday, March 17, 2014 2:36 PM

To: Mackey, Tammy M NWP

Subject: RE: FPOM: Official Coordination 14BON06 CI TDG sensor replacement (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Tammy, A couple of comments

a. You might want to state that this closure of the B2CC will be an operation without a LO/TO being done. This will make the impact/time much less than a normal LO/TO closure of the B2CC.

b. Chances are good that the gate inspections will be done by COB Thursday, 20 March. (Either way my clearance will be transferred to Andy for any/all work required on 21 March)

Kevin P. Perletti P.E. CENWP-OD-B 541-374-4572 kevin.p.perletti@usace.army.mil

CRITFC- -----Original Message-----From: Tom Lorz [mailto:lort@critfc.org]

Sent: Monday, March 17, 2014 7:54 PM

To: Mackey, Tammy M NWP

Subject: [EXTERNAL] Re: FPOM: Official Coordination 14BON06 CI TDG sensor replacement

(UNCLASSIFIED)

why o' why has this taken so long. They knew this was out a long time ago. Why have they waited so long to get it back in. It should be ok, but the people scheduling this work need to get on the ball.

tom

NOAA Fisheries-

----Original Message----

From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]

Sent: Tuesday, March 18, 2014 9:21 AM

To: Mackey, Tammy M NWP

Cc: Lorz, Tom; Trevor Conder - NOAA Federal

Subject: [EXTERNAL] Re: FPOM: Official Coordination 14BON06 CI TDG sensor replacement

(UNCLASSIFIED)

Tammy, This issue is both a closure of the B2CC and in-water work outside the winter maintenance work period. The coordination date should be changed from the 13th to the 17th when the notice was sent out, which gives us a whole two days to respond. Given this, I assume this is an emergency notice. When did the pipes fail? Also, an estimate of B2CC closure duration (not just "brief") should be included in the MOC. In any case, we need the monitor in place to implement the spill program, so I see little choice at this point other than to recommend proceeding as planned. Thanks, Gary

BON Operations-

----Original Message-----

From: Schwartz, Dennis E NWP

Sent: Wednesday, March 19, 2014 11:32 AM

To: Carroll, Jerry A NWP; Magee, Michael S NWP; Mackey, Tammy M NWP; Traylor, Andrew NWP Cc: Wright, Lisa NWD; Cannon, John D NWP; Welton, Brent C NWP; Perletti, Kevin P NWP; Hausmann,

Ben J NWP; Lundell, Tina M NWP

Subject: RE: [EXTERNAL] FW: Spill closure request for installation of CCIW TDG gauge on Mar 21 2014 (UNCLASSIFIED)

All,

This AM both Jerry Carroll and I got on the phone with John Cannon to discuss B2CC impacts and the necessity to close it during transit to the stilling basin for Fridays TDG construction work in the BON Stilling Basin. It was John's strong opinion that to safely accomplish this transit with the barges and tugs they are asking the project to close the B2CC to allow transit through this area. The District HECP policy requires us to combine the spillway and B2CC clearances together as a package because of the determination of exposure to specific work areas and the ultimate control of hazardous energy including water. Once the clearance is accepted there is no way currently allowed in our policy that enables us to open the B2CC because it is also a part of the Spillway gate clearance.

With that being said our recommendation is to error on the side of safety and the requests made by John Cannon to close the corner collector for the duration of the work activity. We will also follow the NWP HECP policy as written.

I have conferred this recommendation to Tammy Mackey via phone just a few minutes ago and she will be contacting the Small Project's Team lead Mike Magee for path forward with the region.

We have coordination in place to complete this work with Project staff on Thursday and Friday of this week and will await a decision and outcome from Tammy and Mike Magee.

Standing by and we greatly appreciate all of your efforts to move this work forward safely and efficiently.

Dennis E. Schwartz
Hydro Electric Power Operations Manager
Bonneville Lock & Dam
(541) 374-4567 office (541) 490-3921 Cell Dennis.E.Schwartz@usace.army.mil

----Original Message-----

From: Schwartz, Dennis E NWP

Sent: Tuesday, March 18, 2014 1:01 PM

To: Mackey, Tammy M NWP; Wright, Lisa NWD; Kanbergs, Karlis NWD; Perletti, Kevin P NWP; Hausmann, Ben J NWP; Traylor, Andrew NWP; Lundell, Tina M NWP; Magee, Michael S NWP; BPA

Bill Berry; BPA Scott Bettin

Cc: Carroll, Jerry A NWP; Cannon, John D NWP; Magee, Michael S NWP

Subject: RE: [EXTERNAL] FW: Spill closure request for installation of CCIW TDG gauge on Mar 21

2014 (UNCLASSIFIED)

Tammy,

The closing of the B2CC for barge transit is my call and is required each time a floating plant or large vessel passes this outfall. The reasoning behind this is purely safe for the vessel and crew in the tailrace. If while underway the tug or assisting vessel loses power they could easily drift or be pushed by the wind to the B2CC outfall plunge and be inundated to the point of sinking the tug and associated vessels. In this case I have required that the B2CC be closed for a short period of time as the barge enters and exits this area of the stilling basin. It is also critical at these higher river flows these flows that the floating plant hug the north shore of Bradford Island as it transits past the 115Kv and 230Kv High Voltage Power lines that cross the river in this area. If the B2CC is on, it makes the push harder and also flows have a tendency to push the upstream vessels towards the North shore of Hamilton Island which is towards the lines that sag lower in the area.

Smaller boats including the hazing boats are also of concern but because of their size and maneuverability we are not asking for this same provision.

Please communicate with the Region that this provision is for contractor safety and is a requirement of this BRZ. I asked Andy to add this to his BRZ permit one Monday March 17th when I got the BRZ request. We included this provision for the spillway contractors last year and the lamprey job as well.

Any questions or concerns about Bonneville BRZ access and our requirements for work within them can be directed to me.

Thanks,

Dennis E. Schwartz
Hydro Electric Power Operations Manager
Bonneville Lock & Dam
(541) 374-4567 office (541) 490-3921 Cell Dennis.E.Schwartz@usace.army.mil

NOAA Fisheries (**Fredricks**) and **CRITFC** (**Lorz**) via phone call- Do not concur with the outage of the B2CC. Seems like there should be some way to allow the B2CC to close to allow barge movement and then re-open once the barge is in position.

NOAA Fisheries- ---- Original Message-----

From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]

Sent: Wednesday, March 19, 2014 2:10 PM

To: Mackey, Tammy M NWP

Cc: Lorz, Tom; Wills, Dave; Trevor Conder - NOAA Federal; Ritchie Graves - NOAA Federal;

Kiefer, Russell; Klatte, Bernard A NWP

Subject: [EXTERNAL] Re: FPOM: Official Coordination- UPDATED 14BON06 CI TDG sensor

(UNCLASSIFIED)

Tammy, It is my opinion that this work should have been done weeks or even months ago, given that the problem was apparently known last fall. Or it could have been done during the three days, 9 hours and about 17 minutes that the collector could have been running if it wasn't for the failed hydrofoil PIT detector work and the tardy opening on the 17th. Certainly, the fact that the regional managers were given twelve days less than the FPP required two weeks advance notice doesn't help. At this point, I suggest that the Corps work out a method of installing the monitoring equipment that doesn't require a barge or at least does not require closing the B2CC. I can think of several possible alternative approaches, but it looks like there isn't time to explore them. Thanks, Gary

BON Ops- -----Original Message-----

From: Schwartz, Dennis E NWP

Sent: Wednesday, March 19, 2014 4:56 PM

To: Carroll, Jerry A NWP

Cc: Traylor, Andrew NWP; Cannon, John D NWP; Magee, Michael S NWP; Hausmann, Ben J NWP; Garmire, Karen L NWP; Mackey, Tammy M NWP; Lundell, Tina M NWP; Wright, Lisa NWD; Proctor,

William D NWD; DLL-CENWP-OD-B Ch Operators

Subject: Solution to B2CC HECP Issue for BON Stilling Basin TDG Work

Jerry,

I just got off the phone with John Cannon and Mike Magee. They have been in conversation with their tug boat captains and we have made provision to have an additional tug push the tow to the stilling basin with the B2CC open. They have also reduced their spud size from 90' to 60' giving us better clearance.

The tug and the working plant plan are to arrive at BON tomorrow afternoon before 1500. Everyone protected by the clearance will be getting badges from Nathan and will be able to lock onto the clearance

box including the new tug and crew. The spillway clearance will be created without the clearance point of closing the B2CC. NWP Construction and Advanced American are satisfied that they can make the push safely with this additional tug horsepower and shorter spuds.

The tug and floating plant will be tying off at our lower Navlock mooring basin and will be staying there through the night. They are 60' wide and approximately 250' long. The larger tug will moor to the shore side of the tow so they are not sticking out into the approach channel. The crew will be spending the night on the tug and floating plant and will be asked to check in with CR on a frequent basis and will be alerted when traffic will be passing them in the lower basin.

The BRZ permit will be update in the AM with additional tug name and contact personnel.

Looks like we are moving this forward. Will update all when I know more.

Regards and thanks to all the team members for your patients in creating a safe business process.

Dennis E. Schwartz

Final results- This action will go forward as coordinated above. NOAA and CRITFC were notified via phone call that a plan was in place to conduct the work WITHOUT closing the B2CC.

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

Tammy Mackey NWP Operations Division Fishery Section Columbia River Coordination Biologist 503-961-5733 Tammy.m.mackey@usace.army.mil