

MEMORANDUM FOR THE RECORD

COORDINATION TITLE - 15CGR01Unit Outage Debris**COORDINATION DATE**- 07 May 2015**PROJECT**- Cougar Dam**RESPONSE DATE** - 19 June 2015**Description of the problem**

During routine maintenance, very large woody debris was discovered lodged in the turbine scroll case and runner. A forced outage began May 9, 2015 when both units were scheduled to go back online after routine maintenance.

Type of outage required

Both units will be offline until a path can be determined to operate units safely.

Impact on facility operation

No generation capabilities (both units) until come back online. All flow must go through the RO.

Dates of impacts/repairs

May 9, 2015 until both units can come back online and is TBD. Some flow through the turbine units may occur next week, however, there is much uncertainty.

Length of time for repairs

Debris from both units has been removed. However, debris is still able to get into units due to a potential gap in trash racks. If units are operated, it will be at speed-no-load or at a limited capacity. Engineers are examining the best path forward.

Expected impacts on fish passage

Not having turbine flow will have a significant impact on the ability of the Cougar Adult Fish Trap to collect fish as this provides attraction. Currently, at least some fish are being attracted to the RO flow away from the fish trap. Collection of adult spring Chinook is necessary for upstream passage for ESA listed fish.

Comments from agencies

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

From: Richard Domingue - NOAA Federal

[mailto:richard.domingue@noaa.gov]

Sent: Friday, June 05, 2015 4:33 PM

To: Walker, Christopher NWP; Jeff Ziller; Anne Mullan - NOAA Federal;

Keith Kirkendall - NOAA Federal; Jeff Brown - NOAA Federal

Subject: [EXTERNAL] Re: MFR - CGR Units, debris (Notification to Services)

Chris, I am concerned that absent turbine flow we cannot get attraction to the trap. A TBD time to return to service is alarming. Could portable pumps be used to provide attraction to the trap? Also, the view that there is a "potential" gap in the trashrack seems at least understated. Lack of attraction flow to the trap is a serious problem for fish management and should be resolved as quickly as possible. Thanks.

On Fri, Jun 5, 2015 at 9:36 AM, Walker, Christopher NWP
<Christopher.E.Walker@usace.army.mil> wrote:

All,

Attached is a Memorandum for the Record (MFR) concerning the forced outage of both units at Cougar Dam. Although a notification was sent out by e-mail on May 7, 2015, documents such as this will be used for these events as we continue to implement the Willamette Fish Operations Plan. This will provide a formal record and allow regional comment and discussion. The MFR will be updated as additional information becomes available.

Please review this MFR and provide comments by 19 June.

Chris Walker
US Army Corps of Engineers
Operations Division
Fish Biologist
w: 503-808-4316
c: 503-887-6452

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

From: Allen, Chris [mailto:chris_allen@fws.gov]
Sent: Monday, June 08, 2015 11:49 AM
To: Walker, Christopher NWP
Cc: Ann Gray
Subject: [EXTERNAL] Re: MFR - CGR Units, debris (Notification to Services)

Chris,

Assuming both units are back on line and the adult fish trap is functioning appropriately, there are no comments from the FWS.

Chris

Chris Allen
USFWS, Oregon Fish and Wildlife Office

2600 SE 98th Avenue, Suite 100 Portland OR 97266
Phone: 503.231.6179

chris_allen@fws.gov

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

From: Walker, Christopher NWP

Sent: Tuesday, June 16, 2015 12:53 PM
To: 'Gray, Ann'; Allen, Chris
Subject: RE: [EXTERNAL] Re: MFR - CGR Units, debris (Notification to Services)

Hi Ann,

- 1) An attempt was made to get the units up last week and were unsuccessful. They are now trying to get them up today. We hope to operate the trap Thursday and move some fish.
- 2) Regarding the MFR, we plan to do an memorandum of coordination (MOC) or memorandum for the record (MFR) where there are impacts to fish not covered adequately in the WFOP. There is language in the WFOP regarding these but additional detail is needed. Right now these will primarily go out through flow management team but probably should go out to FMWQT, FPT, and HMT or a consolidated fish operations team. Right now it seems there is a lot of overlap across teams.
- 3) There was a letter that went out with the hard copy of the WFOP but I don't think it went into any detail regarding comments. I will track that down and send it. In my opinion, most comments were addressed but we need to work out the coordination and notification details. The plan is to update the WFOP yearly while allowing for changes throughout the year.

Let me know if you have any more questions, I'm trying to be more proactive and engaging more often but is a work in progress.

Chris Walker
US Army Corps of Engineers
Operations Division
Fish Biologist
w: 503-808-4316
c: 503-887-6452

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

From: Gray, Ann [mailto:ann_e_gray@fws.gov]
Sent: Tuesday, June 16, 2015 12:17 PM
To: Allen, Chris
Cc: Walker, Christopher NWP
Subject: [EXTERNAL] Re: MFR - CGR Units, debris (Notification to Services)

Hi Chris W-

I had not looked at this MFR since Chris A had replied and I was working on something else. Now I'm trying to catch up- looking at the MFR:

- 1) it doesn't seem like the units are back online or the fish trap operating (thus we may have comments): What is the timeline for the trap to operate? we are quickly approaching times that adult bull trout may be seeking upstream passage.
- 2) this "MFR" seems new and different in terms of process. is there more description on this that you could provide? At what forum are comments discussed (flow management team?), and is this discussion in part used for the annual update on the WFOP?
- 3) was there a response to comment document ever developed for comments from the FWS or other agencies on the original draft of the WFOP? If so, please send that to me.

Thanks!
ann

Final results

-----Original Message-----
From: Taylor, Gregory A NWP
Sent: Tuesday, June 16, 2015 5:32 PM
To: Walker, Christopher NWP
Subject: Fw: Cougar powerhouse in operation

----- Original Message -----
From: Barrowcliff, Gregory J NWP
Sent: Tuesday, June 16, 2015 04:53 PM
To: Taylor, Gregory A NWP; Petersen, Erik S NWP; Bengtson, Dustin E NWP; Hilson, Graham NWP; Bardy, David M NWP
Subject: Cougar powerhouse in operation

All- As of 1630 we have successfully placed Cougar MU#1 in limited service with the HDC advised limitations.

We will be starting the fish facility tomorrow morning.
Greg

-----Original Message-----
From: Helms, Chad K
Sent: Tuesday, June 23, 2015 11:47 AM
To: Walker, Christopher NWP; Garletts, Douglas F NWP
Subject: RE: CGR updates (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Chris,
As of yesterday (6/22), we have had 101 fish back to the facility. 58 unmarked males, 41 unmarked females, 1 unmarked jack and 1 hatchery male. We have been double floy tagging all the unmarked fish and hauling them down to Forest Glen.

Chad

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

Chris Walker
NWP Operations Division Fishery Section
503.808.4316
Christopher.E.Walker@usace.army.mil