

**MEMORANDUM FOR THE RECORD****SUBJECT: 19JDA02 MFR MU1 WITH TAIL LOGS OVER 96 HRS.**

**PROBLEM:** MU 1 turbine experienced a suspected oil leak issue which required its partial, emergency dewatering on 30 January 2018. The tail logs were installed that day at 10 AM and the Draft Tube water level was lowered to facilitate an inspection by JD Maintenance. The issue was quickly resolved by the next day and MU1 was fully refilled with water on 31 January, PM, Thursday. Unfortunately, there wasn't sufficient time left to remove the tail logs before the weekend.

According to FPP JD 6.5.3, a maximum time that the tail logs can remain deployed without a complete dewatering is 96 hours: If a turbine unit is idle and partially dewatered, and tail logs are to be put into place, an adequate safety pool may be maintained for up to 4 days to accommodate fish trapped in the draft tube. If longer timeframes are needed for the safety pool, project fisheries will coordinate with FPOM on a case-by-case basis. Adequate inspections will need to be conducted to ensure that the safety pool is maintained and fish are in good condition. Water levels in the draft tube will not be allowed to drop to a level that strands fish.

The 96 hours maximum would occur at 10 AM, 3 February, Sunday and Miro Zyndol, JD Chief of Fisheries decided that it was acceptable to wait until Monday to remove the tail logs due to the cold water temperature and overtime costs. His email to JD OPM and Chief of Maintenance is included below:

Ron and Mike,

I feel that this minor extension beyond the 96 FPP requirement, by 24 hrs. is completely justified by the timing and special emergency circumstances of the current MU1 activities:

- Pulling tail logs on Monday (regular work day) makes much more sense over doing it on Sunday (weekend.)
- All trapped fish will easily survive in the cold water, which is currently at 40 F.
- I don't expect that any adult salmonids are trapped inside (our long term dewatering records indicate that they are very rarely found at JD turbines.) Even if they were trapped, they are not actively migrating at this time and 24 hrs. delay won't make any significant difference to them.
- No impact on the potential sturgeon trapped inside since they will easily survive and 24 hrs. delay won't matter to them whatsoever.

Let me know if you have any questions.

MZ

- A. Species – No mortalities or any impact to fish has occurred.
- B. Origin – NA
- C. Length – NA
- D. Marks and tags – NA
- E. Marks and Injuries found on carcass – NA

- F. Cause and Time of Death – NA
- G. Future and Preventative Measures – NA

Sincerely,  
Project Fisheries

Comments:

IDFG

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

From: Kiefer,Russell [mailto:russ.kiefer@idfg.idaho.gov]

Sent: Tuesday, February 05, 2019 10:11 AM

To: Kovalchuk, Erin H CIV USARMY CENWP (US) [Erin.H.Kovalchuk@usace.army.mil](mailto:Erin.H.Kovalchuk@usace.army.mil)

Erin and Miro,

IDFG has two concerns with this.

First, we have a minor concern with Miro's email to project operations.

Miro at first correctly describes the potential of holding fish for an additional 24 hrs beyond the allowable 96 hrs.

However, subsequently he describes it as "they are not actively migrating at this time and 24 hrs. delay won't make any significant difference to them", and "they will easily survive and 24 hrs. delay won't matter to them whatsoever". These statements should correctly describe the delay as "120 hrs. delay".

Second, and more importantly, the FPP states: "If longer timeframes are needed for the safety pool, project fisheries will coordinate with FPOM on a case-by-case basis." IDFG considers letting us know after the fact as "notification", whereas "coordination" occurs prior to the fact and allows for our input and potential modification of the action.

Russ