

CENWW-ODO

Date: 2018-07-19

MEMORANDUM FOR THE RECORD 18 LMN 08 MFR Emergency Fish Pump Outage

SUBJECT: Emergency Outage of Fish Pump #2.

Narrative: During routine rounds on 18 July, Power Plant Operators observed unusual vibration coming from Fish Pump #2. This is the pump which was repaired during the previous in-water work period where damaged bearings and shaft were replaced. This discovery led to an emergency outage of Fish Pump #2 from 0730-0915 hours on 18 July. The pump shaft was found to be vibrating due to a loosened thrust collar on the recently replaced shaft. The collar was further loosened, the shaft threads were cleaned, and Loctite was applied to the shaft threads. The thrust collar was then retightened and the bearing cap was reassembled. This repair work was completed as quickly as possible to minimize disruption to adult attraction flows. The project will continue to monitor the fish pump and strive to minimize further pump outages until repairs can be conducted during the upcoming in-water work window. Three extra orifices were opened during this period to increase excess flow in the primary dewaterer which is also part of the supply water for the Auxiliary Water Supply system for adult attraction. Fish Pump #3 remained in operation during the outage.

Location: Lower Monumental Powerhouse

Method: The loosened thrust collar was tightened by mechanics as quickly as possible to lessen the vibration and get the pump back into service.

Time Line - Duration: The outage lasted 105 minutes from 0730-0915 on 18 July 2018.

- A. Species:** There were no known fish losses. Subyearling Chinook are the primary species of juvenile salmonids in the system at this time. The juvenile bypass facilities were unaffected by this event. Adult salmonid passage may have been briefly affected due to less attraction water being added to the diffusers in the adult channel.
- B. Origin:** NA
- C. Length:** NA
- D. Marks and Tags:** NA
- E. Marks and Injuries Found on the Carcasses:** NA
- F. Future and Preventative Measures:** Project personnel will continue to monitor the shaft and try to minimize pump outages as much as possible until a permanent fix can be applied during the winter outage period.
- G. Photos Taken:** None.

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Lower Monumental Dam