

26 September 2014

MEMORANDUM FOR THE RECORD - 14 LWG 17 MFR Diffuser 14 OOS for rental pumps removal

SUBJECT: MFR LWG Diffuser 14 out of service during the removal of the rental pumps that cooled the ladder on 26 September 2014

Description of the problem: The scheduled removal of rented ladder cooling pumps A, B, and C occurred from 0954- 1353 hours on September 26. This required closing adult fish ladder diffuser 14, resulting in a decrease in water elevation in the upper ladder to about 0.3 feet (criteria 1-1.3 feet) over the weirs. Gravity flow of approximately 75 cfs from the fish ladder exit was maintained.

Actions taken: Adult trap personnel were notified prior to taking the valve out of service. NOAA personnel made adjustments to compensate for the water level changes in the adult trap. The fish ladder was monitored by Corps staff during the pumps removal. An adult fish ladder inspection was done when the valve was returned to service after 1353.

Impact on fish passage: Reduced flow in the upper ladder likely delayed adult fish passage in the ladder. This could have also reduced the collected number of fish at the adult trap during this period. Average daily fish counts for the last week at Lower Granite were 2,375 chinook, 782 jack Chinook, 3,640 steelhead, 978 coho, and 23 jack coho. When diffuser 14 was closed at 0954 hours, fish ladder counts at Lower Granite show that 866 of the 24 hour daily total of 1,430 Chinook had passed the counting window. Similarly 267 of 623 Chinook jacks had passed, 1,399 of 3,960 Steelhead and 214 of 547 Coho.

Length of time for repairs: N/A

Sincerely,
Elizabeth Holdren/Ches Brooks
Project Fisheries Biologists
Lower Granite Dam
Ph. 1(509)843-1493 ext.263
Elizabeth.a.holdren@usace.army.mil