

18 April 2018

**MEMORANDUM FOR THE RECORD** – 18 LWG 03 – Juvenile Bypass System Water-up Delay – 2018 Fish Passage Season

**SUBJECT: Lower Granite Juvenile Bypass System Operational Delay**

Lower Granite ESBS installation and Juvenile bypass system operation for the 2018 fish passage season was delayed due to a cable failure in the emergency bypass hatch hoist system. The failure was related to an unexpected and unbalanced load during commissioning at 1615 hours on 1 March 2018. Subsequent load cell testing indicated the hatch and associated lifting system did not meet the Corps of Engineers' requirements (EM 1110-2-3200 Wire Rope for Civil Works Structures) and Safety and Health Requirements (EM 385.1.1.). Contractors began installation of a backup chain fall hoist system while the original cable system was being repaired and prepared for testing with completion on March 28.

Upon completion and satisfactory testing of the backup chain fall hoist system, the juvenile bypass system operated in emergency bypass mode from 1600 hours March 28 to 0915 hours March 29. Primary bypass began at 0915 hours March 29 and continued until collection for condition sampling in secondary bypass mode began at 0700 hours April 1. ESBSs were installed in unit 1 prior to returning the unit to service, ESBSs were installed in units 3 and 5 March 29, and the remaining screens were installed in units 2, 4, and 6 April 2 and 3. Unit 1 was returned to service at 1248 hours March 29.

- A. Species – N/A
- B. Origin – N/A
- C. Length – N/A
- D. Marks and tags – N/A
- E. Marks and Injuries found on carcass – N/A
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures – RSW spill operation began at 0001 hours March 25 to provide fish passage due to delay in JBS operation.

Sincerely,  
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