

CENWW-ODL

06/14/2017

MEMORANDUM FOR RECORD: 17 LWG 16 – MFR Turbine Unit Priority Deviation

Lower Granite Unit 2 operation July 15-17 out of turbine unit priority as described in FPP Table LWG-5.

Unit 2 was forced out of service at 1430 July 14 due to a turbine thrust bearing temperature trip. The problem was determined to be a sensors relay of false information and Unit 2 was returned to service at 1345 hours July 15. At 1809 hours July 15 BPA requested 190 MWs. This MW load is not possible using unit 2 due to the operating range (125-129 MW) being limited due to hydraulically fixed blades. Unit 2 having fixed blades and the request for 190 MW led to the assumption that unit 2 was to be operated as described for unit 1 in FPP Table LWG-5. Lower Granite powerhouse was operated outside turbine unit priority order from 1809 hours July 15 to 1253 hours July 17 when operational guidance was confirmed.

- 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 – NA
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures – Unit 2 is restricted to operate at the upper 1% range at about 17.8-18.4 kcfs at 100 feet of head as described in FPP LWG Table-6. Lower Granite average flow 16 July was 47.1 kcfs. When river flows drop below 36 kcfs it will not be possible to operate unit 2 and maintain a spill level of 18 kcfs. Regional coordination is in development for Lower Granite turbine priority and spill operations when river flow drop below 36 kcfs.
- H. Photos – N/A

Elizabeth Holdren

Supervisory Fisheries Biologist

Lower Granite Lock and Dam

Ph. (509) 843-2263

Cell. (509) 592-6109

Elizabeth.a.holdren@usace.army.mil