

**MEMORANDUM FOR THE RECORD: 22 DWR 02 Powerhouse 115 V Line Outage**

**SUBJECT: Powerhouse 115 V Forced Outage**

Dworshak 115 KV line tripped offline from 0435-0529 hours on November 5 resulting in Unit 1 being forced out of service. Unit 2 was out of service for Tri-annual maintenance and Unit 3 is Dworshak's larger unit and has a minimum outflow of 4.2 kcfs. Operation of unit 3 would exceed the 1ft/hour maximum rate of change at Peck. Operations attempted to open Regulating Outlet (RO) 1 and failed to open due to a rod lock sensor malfunction. RO2 was out of service due an oil overheating issue and RO3 was out of service due to an oil leak on a fitting inside the conduit chamber that is a direct path to the river. The forebay elevation was at 1517 feet which is 28 feet below the spillway gates. During the line outage Dworshak phone lines were also down limiting Project outside communication with Water Management etc. The outage occurred during a backshift when the Operator is the only staff on Project to stabilize the Project.

Dworshak was at 0 cfs of flow for 54 minutes during the Unit 1 outage which resulted in the tailwater elevation decreasing from 970.73 ft to 968.90 ft. There were no observations of river dewatering and no impacts to Dworshak Fish Hatchery.

- 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 – RO's 1 and 3 have been repaired and are available for service. DWR operations is working with the tech section to determine what kind of operational procedures and training can be implemented to assist the operator in similar emergency situations.

Sincerely,

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