

MEMORANDUM FOR THE RECORD: 23 LGS 02 Ground Fault 500 kV Line Loss

SUBJECT: Temporary Priority Unit Deviation, Loss of Adult Channel Auxiliary Fish Pumps, and Emergency Spill due to BPA Line to Ground Fault of LGS #1 500 kV Line

Background

On March 30 at 0620 hours, a BPA line to ground fault caused an LGS #1 500 kV line loss forcing all available units (1,2,3,4,6) into speed-no-load and all spill gates to deploy emergency spill status. Emergency diesel generation of plant operations ensued, allowing restoration of the fish pumps supplying auxiliary water to the adult fish channel at 0650 hours. BPA fault and line issues were resolved, all available units were returned to service, generation within unit priority resumed, and spill ceased at 1255 hours.

The incident resulted in FPP deviations of approximately six and one-half (6.5) hours of spill and unit priority operations, and one-half (0.5) hour loss of auxiliary water to the fish channel. These actions affected fish entrance attraction flow at all 3 entrance locations and may have resulted in fish passage delays.

The Juvenile Fish Facility converted to emergency diesel generation power status at 0635 hours prior to initiating scheduled smolt collection at 0700 hours. Collection operations transpired without incident and converted from emergency diesel back to station power services at 1330 hours.

- A. Species – Adult steelhead *Oncorhynchus mykiss*, and Chinook salmon *O. tshawytscha*
- B. Origin – Hatchery, Wild
- 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 – N/A

Include photos if available.

Sincerely,
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