

**MEMORANDUM FOR THE RECORD**

**SUBJECT: 19BON05 Emergency Release Gate (ERG) Tripped due to forced outage of T11 & loss of river crossing line 3 microwave tripping system.**

At ~0800 on Friday, April 19th Bonneville operators were forced to take T11 (MU 11-14) out of service. Electricians removing abandoned cables/wires between Powerhouse 2 and the North Tower disconnected the signal cable for the breaker of the 230KV transmission line that connects PH2 to the North Bonneville substation, causing a loss of protection for T11. They attempted a quick repair but were not immediately successful, forcing T11 out of service.

During the shutdown of T11 units a loss of station service in Powerhouse 2 occurred, causing a loss of power to the North Shore. During the momentary loss of power, an uninterruptible power supply (UPS) for the Powerhouse 2 DSM, which maintains power to the DSM control system, failed causing an ERG (emergency release gate) trip.

The DSM was recovered after station service in PH2 was stabilized and T11 returned to service after approximately 2.5-3 hours. During this time, the Smolt Monitoring Facility (SMF) would have only received flushing water as fish exiting the gatewells would have been immediately diverted back to the river in the PH2 tailrace. For the duration of the T11 outage, returning adults would not have had the same tailrace attraction that they otherwise would have. Some delay may have occurred and with pinniped presence, an unknown increase of predation may have occurred. Additionally with the south end of the powerhouse out of service, out-migrating juveniles would not have been directed to the B2CC as in normal operations.

Sincerely,  
Project Fisheries