

MEMORANDUM FOR THE RECORD: 22 LWG 05

SUBJECT: T1 Forced Outage Due to Low Oil.

LWG main transformer 1 (T1) oil level was 21 inches below full when measured April 7. The Critical operating level is believed to be 25 inches below full. The oil depth dropped another 1.5 inches when measured Monday April 11. LWG T1 was removed from service at 1443 on April 11 for plant safety. Units 1-3 were forced out of service with T1 due to loss of a generating path. Units 1-3 will remain out of service until oil is added and T1 is returned to service. Unit 4 is currently out of service for scheduled DC low voltage switchgear work.

Currently BPA is scheduled to deliver and add T1 transformer oil April 19. All units will be offline with unit 5 at speed no load for station service power from 0600-1800 hours April 19 to support this work. T2 and Units 5 & 6 will be returned to service following the T1 oil addition on April 19. T1 and Units 1-3 will remain forced OOS to allow for the required 72 hours settle time following oil addition. LWG 500 KV line and all units will be taken offline with unit 5 at speed no load for station service power from 1500-1800 hours April 22 to restore T1 transformer. All units except for unit 4 will be returned to service on April 22 when T1 is restored.

LWG has submitted an MOC to FPOM for T1 and T2 repair work. Work for each transformer is expected to take 12 weeks as described in 22 LWG 04 MOC. Repairs will occur in 2023 and possibly 2024 as needed. This will be added to Appendix A in the FPP. Not repairing T1 and T2 will result in a non-scheduled outage with larger impacts to fish passage.

- A. Species – The ten-year average adult salmonid passage April 11-April 22 is 9 Chinook and 49 steelhead.
- B. Origin – NA
- C. Length – N/A
- D. Marks and tags – NA
- E. Marks and Injuries found on carcass – NA
- F. Cause and Time of Death – NA
- G. Future and Preventative Measures – Complete permanent repairs to T1 gaskets to prevent complete failure that would impact fish passage and potential for oil contamination.

Sincerely,

Elizabeth Holdren
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Lower Granite Project
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