

T1 Neutral bushing outages at Lower Granite

Background:

Change needed due to the amount of oil that needs to be drained from each transformer. Once the contractor starts procedure they need to finish minimizing the amount of absorbed oxygen and moisture that is absorbed into the transformer oil when it is exposed to the atmosphere. Cannot be done in a 12 hour window.

Proposed outage options for T1 neutral bushing:

Option 1. (Fastest) T1 (Units 1-4) OOS continuous Aug 11 at 0600 through Aug 17 at 1700.
T2 (Units 5-6) return to service every other day for 24-h period.

1. T1B bushing.
 - a. Aug 11 at 0600 line outage (T1 and T2 OOS) until Aug 12 at 0600. (Duration 24 hours)
 - b. T1 will remain OOS, T2 (Units 5 and 6) will RTS. (Duration 24 hrs)
2. T1A bushing
 - a. Aug 13 at 0600 line outage (T1 and T2 OOS) until Aug 14 at 0600. (Duration 24 hours)
 - b. T1 will remain OOS, T2 (Units 5 and 6) will RTS. (Duration 24 hrs)
3. T1C bushing
 - a. Aug 15 at 0600 line outage (T1 and T2 OOS) until Aug 16 at 0600. (Duration 24 hours)
 - b. T1 will remain OOS, T2 (Units 5 and 6) will RTS. (Duration 24 hrs)
 - c. Aug 17 at 0600 T1/T2 OOS until 1700. (Duration 11 hours)

Option 2. (Break in work) T1 (Units 1-4) OOS continuous Aug 11 at 0600 through Aug 20 at 1700.
T2 (Units 5-6) return to service every other day for 48-h period.

1. T1B bushing.
 - a. Aug 11 at 0600 line outage (T1 and T2 OOS) until Aug 12 at 0600. (Duration 24 hours)
 - b. T1 will remain OOS, T2 (Units 5 and 6) will RTS. (Duration 24 hrs)
 - c. Wait 24 hours
2. T1A bushing
 - a. Aug 14 at 0600 line outage (T1 and T2 OOS) until Aug 15 at 0600. (Duration 24 hours)
 - b. T1 will remain OOS, T2 (Units 5 and 6) will RTS. (Duration 24 hrs)
 - c. Wait 48 hrs (over the weekend)
3. T1C bushing
 - a. Aug 18 at 0600 line outage (T1 and T2 OOS) until Aug 19 at 0600. (Duration 24 hours)
 - b. T1 will remain OOS, T2 (Units 5 and 6) will RTS. (Duration 24 hrs)
 - c. Aug 20 at 0600 T1/T2 OOS until 1700. (Duration 11 hours)