

- 1 **Q. Substations - Additions to Load Growth - Mobile - p. 20 of 96)**
2 **How old is distribution power transformer MOB - T2 and what is its expected**
3 **service life?**
4
- 5 A. The MOB-T2 transformer was purchased in 1974. In 2010 the transformer will be 36
6 years old.
7
- 8 Newfoundland Power is unable to predict the life of an individual power transformer with
9 any degree of certainty.
10
- 11 Factors impacting life expectancy of power transformers in addition to calendar age are
12 operating history, operating environment, failure history and the chemical and physical
13 characteristics of the transformer oil.
14
- 15 The Company's asset management program for power transformers includes oil sampling
16 and dissolved gas analysis to monitor the condition of the individual transformers. This
17 allows the Company to maximize the life expectancy of power transformers and to
18 intervene with major maintenance overhauls when the unit's performance begins to
19 deteriorate.
20
- 21 The 6.7 MVA MOB-T2 power transformer was maintained in April of this year and is in
22 good physical condition. When removed from service the unit will be available as a
23 replacement for either one of 12 other similar power transformers currently in service.