

1 **Q. (Reference Application, para. 9)**
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3 **If a suitable spare transformer were available on the Island, how long would it**
4 **take to replace the MUN Substation transformer?**
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6 A. To resolve an in-service power transformer failure, the first option evaluated is the
7 installation of a portable substation.¹ A portable substation can typically be installed
8 within three days.² A spare power transformer can typically be installed within a month,
9 during which time the portable substation would remain in operation. This could be
10 expedited at an additional cost depending on the circumstances at the time of failure,
11 including whether there is a need to redeploy the portable substation elsewhere.³
12

13 Spare power transformers are assessed to determine their suitability for installation
14 based on various factors, including capacity, voltages, winding configuration, physical
15 size and any space constraints in the substation.⁴

¹ See the response to Request for Information PUB-NP-005.

² See *2023 Capital Budget Application*, report 2.2 *Substation Spare Transformer Inventory*, page 6.

³ The additional cost would primarily reflect increased overtime labour costs.

⁴ Newfoundland Power does not currently have a spare power transformer that matches the specifications of MUN-T2. See the response to Request for Information CA-NP-002.