

1 Q. **Reference: Project 16: Replace T1 (2027–2029) – Burgeo page 2**

2 Has Hydro explored additional corrosion protection for the new transformer?

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5 A. Newfoundland and Labrador Hydro's ("Hydro") corrosion protection aspects of its technical
6 standard for new transformers is more robust than that which was in place when the original T1
7 was procured. Hydro's current standard includes:

- 8 • Transformer tank and tank cover fabricated from CSA G40.21-44W commercial grade
9 low carbon steel, with a thickness of 12.7 mm;
- 10 • Transformer tank cover, bracing and stiffeners designed such that rainwater shall not
11 collect;
- 12 • Transformer tank cover sloped to a minimum of two and a maximum of three degrees,
13 to allow rainwater to run off and prevent it from collecting;
- 14 • Radiators fabricated with minimum 19 mm thick steel which is hot dip galvanized, with
15 headers and fins designed and constructed to inhibit the collection of water and the
16 retention of moisture;
- 17 • Transformer control cabinet made of stainless steel with a NEMA 4X rating and
18 adequately ventilated to prevent any accumulation of moisture; and
- 19 • Exterior coating to minimize corrosion that includes a paint finish of a 3 mils dry film
20 thickness of polyamide epoxy primer Devran and a 3 mils dry film thickness of silicon
21 alkyd base gloss enamel Devshield 877.

22 Hydro considers this approach to corrosion protection to be reasonable and therefore did not
23 consider any additional protection above its current standard for this project.