

1 **Q. Reference: Refurbish Aluminum Towers – TL212 (2027–2028)**

2 It is stated (page 3) *“TL212 is exposed to heavy salt spray as well as pollutant contamination*
3 *from the refinery at Come By Chance. As a result, the galvanized steel components of the line*
4 *have corroded significantly. These components include the guy wires and insulator support*
5 *assemblies of the aluminum towers.”*

6 **a)** Are materials other than galvanized steel available that are less susceptible to
7 corrosion?

8 **b)** What is the evidence that pollutant contamination from the Come By Chance refinery
9 damages the galvanized steel components of the line?

10
11
12 **A. a)** Although there may be other materials that are less susceptible to corrosion, galvanized
13 steel hardware is the industry standard for this application. Material selection is based not
14 only on corrosion resistance, but also on mechanical strength, electrical performance,
15 compatibility with existing infrastructure, constructability, maintenance requirements,
16 availability, and lifecycle cost. As a result, galvanized steel continues to be the most widely
17 used throughout the utility industry because it provides an effective balance of durability,
18 structural performance, and cost.

19 **b)** Please refer to Newfoundland and Labrador Hydro’s (“Hydro”) response to part a) of
20 CA-NLH-064 of this proceeding. Hydro has observed significant corrosion of galvanized steel
21 components on TL212, including guy wires and insulator support assemblies.