

1 Q. **Newfoundland and Labrador Hydro - EFLA Consulting Engineers Report - *Structural Capacity***
2 ***Assessment of the Labrador Island Transmission Link, April 30, 2020 ("EFLA" Report)***

3 Please explain the details of how ongoing LIL reliability studies Hydro cited at the June 4
4 technical session and to be filed with the Board by November 15, 2020 will amass, localize,
5 categorize, analyze, and report on the impacts of local climatological conditions in assessing LIL
6 return periods.

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9 A. As part of the ongoing reliability study, it has been decided to reassess the wind and ice loads
10 using a numerical weather prediction model. This work will consider local topographical
11 conditions. Once the revised climatological loads on the critical sections of the Labrador-Island
12 Link ("LIL") are assessed, the revised reliability will be benchmarked against the reliability under
13 original CSA loads. The results of this study will allow Newfoundland and Labrador Hydro
14 ("Hydro") to focus attention on areas where the EFLA Consulting Engineers report identified that
15 the optical ground wire and tangent towers are not fully meeting the 150-year return period
16 load level as suggested by the CSA standard. Please refer to Hydro's response to PUB-NLH-089
17 for additional commentary on local climatological data. As a part of the ongoing reliability study,
18 Hydro will also complete a qualitative assessment of design data used historically for other
19 transmission lines within various segments of the LIL.