

1 Q. **Reference: Reliability and Resource Adequacy Study 2022 Update, Volume III, page 18, lines 7-**
2 **12.**

3 Describe and detail what Hydro believes the LIL return period is and what Hydro will use for
4 planning and analysis, why, and any further study planned regarding it.

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7 A. Acknowledging the findings of the reports provided by Haldar & Associates,¹ the need for long-
8 term meteorological measurements and the failures experienced since construction,
9 Newfoundland and Labrador Hydro (“Hydro”) does not have a basis on which to accurately
10 specify the return period of the Labrador-Island Link (“LIL”). Further, given the limited
11 availability of long-term operational and climatic data for the LIL, Hydro is not in a position to
12 pursue studies that would conclusively determine return periods at this time.

13 To navigate this uncertainty, Hydro will continue to use the practice presented in the “Reliability
14 and Resource Adequacy Study – 2022 Update”² where a range of forced outage rates up to 10%
15 will be used to represent LIL unavailability for reliability planning and analysis purposes. As LIL
16 performance statistics become available in the coming years, the forced outage rate range can
17 be narrowed.

¹ "Assessment of Labrador Island Transmission Link (LIL) Reliability in Consideration of Climatological Loads," Haldar & Associates Inc., rev. April 11, 2021 (originally issued March 10, 2021) and "Assessment of Labrador Island Transmission Link (LIL) Reliability in Consideration of Climatological Loads - Phase II," Haldar & Associates Inc. December 12, 2021.

² "Reliability and Resource Adequacy Study - 2022 Update," Newfoundland and Labrador Hydro, October 3, 2022.