

1 Q. **Reference: Reliability and Resource Adequacy Study 2022 Update, Volume III, page 27-28.**

2 Regarding the analysis of an extended LIL bipole outage, list and explain the conclusions that can
3 be drawn about the impact of considering such an outage on the need for additional generation,
4 and the sensitivity of the additional MW of new generation needed to the assumed duration of
5 such an outage.

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8 A. The “Reliability and Resource Adequacy Study – 2022 Update,” (“2022 Update”)¹ contains a
9 detailed analysis of an extended Labrador-Island Link (“LIL”) bipole outage and the impact of
10 additional generation on the system impact of this outage. The extent to which the impact of an
11 extended bipole outage would drive the need for additional generation is still under
12 consideration. As stated in the 2022 Update, Newfoundland and Labrador Hydro (“Hydro”)
13 intends to further study the implications of an extended LIL bipole outage and how to mitigate
14 such an outage in the Reliability and Resource Adequacy Study – 2023 Update (“2023 Update”).

15 Further analysis is needed to fully understand the reliability implications of an
16 extended LIL outage. Hydro is committed to continuing to work with
17 Newfoundland Power to determine what reasonable level of rotating outages, if
18 any, could be maintained for an extended duration. Further, it is also necessary
19 to better understand the implications this length of outage would have on
20 reservoir storage by the end of a six-week outage. Hydro is committed to
21 assessing this further in the 2023 Update. Hydro remains committed to working
22 with the Board² and stakeholders to contemplate how this extended outage
23 scenario should be incorporated into Hydro’s planning process, particularly in
24 how best to balance cost and reliability.³

¹ “Reliability and Resource Adequacy Study - 2022 Update,” Newfoundland and Labrador Hydro, October 3, 2022, vol. III, sec. 5.5.

² Board of Commissioners of Public Utilities (“Board”).

³ “Reliability and Resource Adequacy Study - 2022 Update,” Newfoundland and Labrador Hydro, October 3, 2022, vol. III, sec. 5.5.2. p. 38/1–8.