

1 Q. **Reference: Reliability and Resource Adequacy Study 2022 Update, Volume III, page 18, line 16**  
2 **to page 19, line 2.**

3 Provide an update on the status of all work undertaken or to be undertaken by Hydro to  
4 improve the reliability of the LIL in response to the recommendations and findings in the Haldar  
5 & Associates reports on the LIL reliability.

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8 A. As noted in the "Reliability and Resource Adequacy Study - 2022 Update,"<sup>1</sup> Newfoundland and  
9 Labrador Hydro ("Hydro") agrees with the concepts presented with respect to weather  
10 monitoring and the potential for improved reliability of the Labrador-Island Link ("LIL") and will  
11 continue to take action on this initiative based on the recommendations put forth in the  
12 "Reliability and Resource Adequacy Study – Additional Considerations of the Labrador-Island  
13 Link Reliability Assessment and Outcomes of the Failure Investigation Findings."<sup>2</sup> Weather  
14 stations have been installed in these zones<sup>3</sup> to monitor these conditions to inform if any  
15 structural investments are required, as the exact extreme combined wind and ice load scenarios  
16 suggested by Haldar & Associates Inc. ("Haldar & Associates") are not supported by historical  
17 data at this time.

18 Hydro continues to monitor weather conditions along the line, including regular line patrols, to  
19 better understand meteorological conditions along the LIL and to validate the icing studies  
20 completed in support of the Haldar & Associates reports.<sup>4</sup> Data from the stations, along with  
21 observations during operations, will help determine loading conditions experienced on the LIL  
22 going forward. Further, concepts relating to line length and regional correlation have not been  
23 widely validated or utilized within the utility industry. As such, Hydro does not have a basis to

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<sup>1</sup> "Reliability and Resource Adequacy Study - 2022 Update," Newfoundland and Labrador Hydro, October 3, 2022, vol. III, sec. 5.2, pp. 18–19.

<sup>2</sup> "Reliability and Resource Adequacy Study – Additional Considerations of the Labrador-Island Link Reliability Assessment and Outcomes of the Failure Investigation Findings," Newfoundland and Labrador Hydro, December 22, 2021.

<sup>3</sup> One weather monitoring station was installed in southern Labrador in 2022 and there are plans to install a second weather station in central Labrador in 2024.

<sup>4</sup> "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.

1           definitively accept such considerations; rather, Hydro will consider the impacts of a significant  
2           failure of the LIL, independent of the frequency of such an event occurring, as part of the  
3           extended LIL outage analysis.