

1 Q. **Reliability and Resource Adequacy Study Update, November 15, 2019**

2 ***TGS Study Reports***

3 With respect to the study of temporary HVDC overhead line faults, please state whether Hydro  
4 intends to study them and if so when the results of any study will be available, the risks to that  
5 date, and Hydro's estimation of the likelihood of availability at that date.

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8 A. Newfoundland and Labrador Hydro's ("Hydro") investigation of overhead line faults is  
9 underway. A Power System Simulator for Engineering ("PSS®E") study<sup>1</sup> was completed to assess  
10 restart times for the transitional period<sup>2</sup> and for long term operation.

11 As presented in Hydro's response to PUB-NLH-161, Power Systems CAD ("PSCAD") analysis will  
12 also be performed to assess overhead line faults. Now that the working PSCAD model has been  
13 received from General Electric, Hydro does not foresee any appreciable risks with the  
14 completion of the study in the proposed timeline.

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<sup>1</sup> Technical Note TN1205.77.03, "Operational Considerations of LIL Restarts and ML Runbacks," TransGrid Solutions, June 3, 2020.

<sup>2</sup> The transitional period refers to period in time when Labrador-Island Link ("LIL") 2 pu overload capability and LIL frequency controller are not yet in service