

- 1 Q. **Reference: Volume 1, Attachment 7, Technical Note on the Labrador-Island Link**  
2 **Reliability**  
3 What would be the results of the analysis, as presented in the technical note, if the HVDC  
4 schemes with availability of less than 80% had not been omitted? In the response please  
5 include the following:  
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7 a. Would the overall conclusion be changed significantly?  
8 b. How many more UFLS events would there be?  
9 c. Would more generation be required and, if so, when and how much?  
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12 A. a. Please refer to Newfoundland and Labrador Hydro's response to PUB-NLH-021 for a  
13 detailed response on the basis for exclusion of the HVdc configurations with less than 80%  
14 availability. The exclusion of this data would not result in significant changes to the overall  
15 conclusion.  
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17 b. The analysis to support the Reliability and Resource Adequacy Study was conducted on  
18 the basis of the forced outage rate data supplied by the Nalcor Energy Power Supply team.  
19 Newfoundland and Labrador Hydro's analysis did not focus specifically on underfrequency  
20 load shedding ("UFLS") events, but rather on unserved energy and loss of load expectation.  
21 As such, no data on potential for UFLS is available as part of this study.  
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23 In accordance with established Transmission Planning Criteria, Hydro will operate the  
24 system such that there is no exposure for UFLS as a result of the loss of one pole of the  
25 Labrador-Island Link. As such, availability would not impact Transmission Planning  
26 Assessments, as this deterministic analysis considers operation in a contingency scenario  
27 with one pole out of service.  
28  
29 c. The impact on resource requirements would require detailed analysis once potential  
30 impact is quantified. If the analysis results in decreased energy deliveries it is likely that the

- 1 results would not change, as projected resource requirements are being driven on a
- 2 capacity basis.