Q. **Reference: Response to Request for Information P2-CA-NLH-146.**

Requirement R3, Part 3.2 of TPL-001-4, provides for assessment of the impact of extreme events. Further, Hydro's response to Request for Information P2-CA-NLH-146 indicates that severe contingencies have not been listed by Hydro as its transmission criteria is focused on N-1 contingences.

Would Hydro consider including a Bi-Pole outage to its near-term and long-term planning assessment list requiring ongoing assessment? If not please explain why.

A. Newfoundland and Labrador Hydro ("Hydro") is not considering the inclusion of a bipole outage to its near-term and long-term planning assessment list requiring ongoing assessment. Rather, Hydro's preferred approach is to include a bipole outage to its near-term and long-term planning assessment once appropriate criteria have been established. These criteria will define transient performance during a trip of the Labrador-Island Link ("LIL") bipole as well as transmission system requirements when the LIL bipole is out of service. The criteria will be developed as operational studies are completed and analysis associated with the Reliability and Resource Adequacy Study is advanced.

As per Hydro's response to PUB-NLH-161 and PUB-NLH-176, operational studies have been performed and are ongoing to assess Under-Frequency Load Shedding ("UFLS") schemes. These studies will help to ensure that there is a controlled load shed in the event of a bipole trip and that system stability is maintained. It is Hydro's intention to develop criteria and include the transient analysis of bipole trips in its annual assessments once the studies are complete and the UFLS scheme has been finalized.

Hydro is also working to develop criteria to assess system performance when the LIL bipole is out of service. In 2019, Hydro presented a technical note[1] with proposed "Emergency Planning

[1] TP-TN-068 Application of Emergency Transmission Planning Criteria for a Labrador Island Link Bipole Outage, Hydro, July 31, 2019.

Criteria." The appropriateness of the Emergency Transmission Planning Criteria as a long term solution is dependent on whether incremental generation is installed and on where the generation is located. The criteria to be considered as part of near-term and long-term planning assessments will therefore be developed as Hydro's Reliability and Resource Adequacy Study continues.