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

TGS Study Reports

With respect to the impacts of UFLS resulting from contingencies studied by TGS, please:

a. Confirm or explain if not that Hydro's calculation of maximum expected UFLS (at present 963MW) is not yet accompanied by: (i) a mapping of the areas affected, (ii) frequencies that will trigger disconnection by area, or (iii) load shed by area. Please also identify which of the three Hydro will accomplish, describe the activities required to accomplish each and state when Hydro expects to complete the work required for those it intends to accomplish, the risks to that date or dates, and Hydro's estimation of the likelihood of availability at dates estimated.

A. a. Newfoundland and Labrador Hydro ("Hydro") has identified next steps in implementation of the new Under-Frequency Load Shedding ("UFLS") scheme. A study will be undertaken to refine the load shedding scheme specified in the Stage 4A Operational Study. The study will involve the optimization of load shedding blocks and will include a review of system restoration. Newfoundland Power has been engaged and will be consulted as this study progresses. It is anticipated that the study will be completed by the end of 2020 and filed with the Board of Commissioners of Public Utilities in the early part of 2021.

Upon completion of the study, Hydro will continue to work with Newfoundland Power to plan the implementation of the new UFLS. This work will involve the specification and selection of feeders for load shedding blocks and the development of plans for rotation and restoration.

Hydro does not foresee risks to the completion of the UFLS study in 2020 and expects to complete final design and implementation work in collaboration with Newfoundland Power in 2021, as planned.