Q. **Re: NLH, Attachment 1, Responses to PUB Questions, page 2**

Citation:

Table 1 provides actual peak demands for the Happy Valley-Goose Bay system since the winter of 2000/2001.

The 2017/2018 peak of 66.9 MW (to February 28, 2018) is less than the forecast requirement of 79.9 MW primarily because the connected data centre customer loads have not ramped up to operational load requirements. In addition, the temperatures during system peak periods for the current winter to date have been milder than normal peak period weather conditions for this region.

Preamble:

Table 1 shows peak loads of 71.1 MW in 2016/17 (the historic high), and of 66.9 MW in 2017-18p.

a) Please provide the actual peak load in the winter of 2017/18.

b) Please provide:

   i) the forecast peak load in the winter of 2018/19,

   ii) the forecast peak load in the winter of 2018/19 without the 5.5 MW interruptible contract with Labrador Lynx Ltd.,

   iii) the forecast peak load in the winter of 2018/19 without any data centre loads, and

   iv) the forecast peak load in the winter of 2018/19 under the hypothesis that all data centre loads are curtailed for the peak 300 hours of the year.

A.

a) The actual peak load for the Labrador East system in the winter of 2017-2018 was 66.9 MW and occurred on January 15, 2018 at 0900 hours.

b)

i) Please refer to the Labrador East Base Coincident Peak Forecast on page 11 of the "Labrador Interconnected System Transmission Expansion Study" for the most recent peak load forecast. The forecast P90 peak demand for the Labrador East system for the winter of 2018-2019 is 81.7 MW. The corresponding forecast P50 peak demand for the Labrador East system for the winter of 2018-2019 is 78.7 MW. Neither the P90 nor the P50 peak demand forecasts consider the impact of the temporary interruptible contract with Labrador Lynx Ltd.

ii) As indicated in i), the forecast peak load for the winter of 2018-2019 does not consider the impact of the temporary interruptible contract with Labrador Lynx Ltd. However, to assist in understanding the potential of the interruptible contract in reducing actual demand, the forecast system coincident peak demand for Labrador Lynx Ltd. for the winter of 2018-2019 is 4.4 MW including distribution losses. The impact of the interruptible contract on reducing actual demand will depend on the actual load requirements of Labrador Lynx Ltd. when required to reduce load.

iii) Newfoundland and Labrador Hydro's ("Hydro") Labrador East Base Coincident Peak Forecast presented on page 11 of the "Labrador Interconnected System Transmission Expansion Study" specifically accounted for three new service requests identified as data centres. The forecast system coincident peak demand for the three new service requests

identified as data centres for the winter of 2018-2019 is 6.3 MW including distribution losses. Additionally, please refer to Hydro's response to LAB-NLH-035(d).

iv) Hydro does not have the authority to curtail customers in this fashion. Therefore, the calculations necessary to provide this information have not been made as such an exercise will not contribute to the value of the current proceeding.