Q. **Reference : Response to the Request for Information NP-NLH-053.**

In the response to Request for Information NP-NLH-053 Hydro states:

"Reliable local data exceeding applicable CSA loads has not been identified."

On Page 63 of Manitoba Hydro International's (MHI) January 2012 Report on Two Generation Expansion Alternatives for the Island Interconnected Electrical System (Volume 1), MHI states:

"Reliability based design is an appropriate method for the Infeed Option transmission line since there has been extensive meteorological analysis conducted. To support the design process, historical strength data for existing transmission lines were available from the work completed as part of the transmission line upgrade on the Avalon Peninsula."

Please explain Hydro's assertion that local data provided in Exhibit 85 of the Muskrat Falls Review is either (i) not reliable, or (ii) does not exceed applicable CSA loads.

A. The results of Exhibit 85 are insufficient to contradict the loadings predicted by CAN/CSA C22.3 No. 60826-10 because:

a) The current standard has an additional 15 years of meteorological data for Newfoundland that was not considered in the Exhibit 85 study, and

b) The Exhibit 85 study does not forecast 150-year or 500-year return periods.

The Labrador-Island Transmission Link was therefore designed to withstand the loads recommended for the Avalon Upgrade project[1] (and beyond). The 500-year return period was calculated using the methodology and loadings used in the CSA standard for the Avalon Peninsula.

[1] This project consisted of work on various transmission lines between 1999 and 2002.