Q. Reference: Probabilistic Based Transmission Reliability Summary Report, Appendix
A, Page 28 of 56.

"The forced outage rates and availability of the HVDC systems are highly dependent on their design, installation, and location...Therefore, unless details of a specific system are available, an accurate estimate of its forced outage rates and availability cannot be calculated. For the purpose of this study, Teshmont is planning to use the following values which are based on the information that was provided to Teshmont by Nalcor Energy."

Please describe in detail the extent to which Teshmont was able to review the design, installation, and location details of the Muskrat Falls project, Labrador Island Link, and Maritime Link to determine the appropriateness of the values it used in its probabilistic based transmission reliability assessment. In the response, please indicate what limitations, if any, Teshmont had to obtaining the design, installation, and location details associated with the Labrador Island Link?

A.

All the information used to develop the analysis of this study has been listed in the Reference section of Teshmont's study report ("Probabilistic Based Transmission Reliability Assessment – Island Interconnected System") (reference number 1 to 7). Teshmont believes that Nalcor has released all possible information that would be useful as an input to the study at that time. Also, Teshmont believes that Nalcor had made every possible effort to answer all questions related to the core assumptions of this study. Based on this information, Teshmont developed the different input parameters for the analysis such as failure rates and repair times. At that early stage of the project, it was a common understanding that all details may not be available. The numbers provided by Nalcor Energy were based on assumptions related to the design (e.g. availability of spare equipment with long lead time such

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1	as transformers or smoothing reactors) and the allocation of the LIL converter
2	stations (e.g. the physical location of Soldiers Pond and/or Muskrat Falls converter
3	stations). If some of these assumptions change in the future, some fine tuning of
4	the failure rates and repair times may be needed; however, no change is expected
5	to the study's core conclusion.