Q: Reference: ***Review of Newfoundland and Labrador Hydro Power Supply Adequacy and Reliability Prior to and Post Muskrat Falls Final Report,*** **Page 34.**

"Studies of the performance of the IIS should be performed not only with the Maritime Link in service, but also with it out of service."

Does Liberty expect any important results of these studies, with respect to future reliability on the Island Interconnected System, and did it get any response from Hydro as to why these studies have not been performed? If so, please explain.

A. Please also see the response to NP-PUB-011.

The Maritime Link has been identified as being of significant benefit to the reliability of the IIS, when the LIL is the main provider of power to the IIS. The main benefit is that the Maritime Link can operate as a large interruptible load.

The main benefit of the studies in respect of reliability of the IIS will be that they will identify any operational constraints (e.g. the need for limitations of power import on the LIL, and/or the minimum number of synchronous condensers in-service) that will need to be applied, when the Maritime Link is not in service.

Liberty did not question why the studies performed had not included cases with the Maritime Link out of service, and why the operational studies had not yet been done, since:

1. The objective of the studies performed with the Maritime Link were to
   a. investigate the potential interactions between the two HVDC schemes, and
   b. the benefits to the IIS of curtailing the Maritime Link in the event of faults in the IIS and within the LIL.

   These issues are of no concern or relevance when the Maritime Link is out of service.
2. The operational studies, with and without the Maritime Link in service, will take many months to perform, because of the large number of cases that needs to be studies.
3. Furthermore, the studies would be most efficiently performed when the more accurate and detailed models of the HVDC schemes have been provided and verified by the converter station manufacturers.