

HAND DELIVERED

September 15, 2015

Board of Commissioners
of Public Utilities
P.O. Box 21040
120 Torbay Road
St. John's, NL A1A 5B2

Attention: G. Cheryl Blundon
Director of Corporate Services
and Board Secretary

Ladies and Gentlemen:

**Re: The Board's Investigation and Hearing into Supply Issues and Power Outages on
the Island Interconnected System – Requests for Information**

Please find enclosed the original and 12 copies of Newfoundland Power's Requests for Information NP-NLH-94 to NP-NLH-104.

The information requested is required for evaluation by the Company and its expert of Island Interconnected system adequacy and reliability after the interconnection with the Muskrat Falls generating facility.

For convenience, the Requests for Information are provided on three-hole punched paper.

A copy of this letter, together with enclosures, has been forwarded directly to the parties listed below.

If you have any questions regarding the enclosed, please contact the undersigned at your convenience.

Yours very truly,



Peter Alteen
Vice President,
Regulation & Planning

Enclosures

c. Geoffrey Young
Newfoundland and Labrador Hydro

Paul Coxworthy
Stewart McKelvey

Danny Dumaresque

Thomas Johnson, QC
O'Dea Earle Law Offices

Roberta Frampton Benefiel
Grand Riverkeeper Labrador Inc.

IN THE MATTER OF

the *Electrical Power Control Act, 1994*,
SNL 1994, Chapter E-5.1 (the "*EPCA*")
and the *Public Utilities Act*, RSNL 1990,
Chapter P-47 (the "*Act*"), as amended; and

IN THE MATTER OF the Board's Investigation
and Hearing into Supply Issues and Power Outages
on the Island Interconnected System.

**Requests for Information by
Newfoundland Power Inc.**

NP-NLH-94 to NP-NLH-104

September 15, 2015

Requests for Information

- NP-NLH-094 Please describe the AC power requirements required at the Soldier's Pond terminal station to enable delivery of power from the Labrador Island Link.
- NP-NLH-095 Please explain if the Soldier's Pond terminal station will be equipped with black start functionality? If this is the case, please describe what black start functionality is proposed. If not, why not?
- NP-NLH-096 Please explain if it is necessary to have at least one of the 230kV AC transmission lines that cross the Isthmus on the Avalon Peninsula in service to accept delivery of power from the Labrador Island Link?
- NP-NLH-097 Please provide detailed information of Hydro's experience with (i) transmission line failures; (ii) failure modes and; (iii) restoration times for transmission line failures on the Northern Peninsula of Newfoundland.
- NP-NLH-098 Please provide Hydro's system restoration plan in the event of a major outage to the 230kV transmission lines crossing the Isthmus on the Avalon Peninsula (TL237, TL203, TL267, and the Labrador Island Link). Include the order of line restoration and major decision points in planning restoration efforts.
- NP-NLH-099 Please provide Hydro's contingency plan in servicing customers on the Avalon Peninsula in the event of a major storm taking down all 230kV transmission lines crossing the Isthmus on the Avalon Peninsula (TL237, TL203, TL267, and the Labrador Island Link). Please include information applicable for both before and after the decommissioning of the Holyrood plant.
- NP-NLH-100 Reference: Response to Request for Information NP-NLH-051.

The response to Request for Information NP-NLH-051 states on page 2 of 2 at lines 3-8:

"The 1996 study which estimated ice loads on the Avalon and Connaigre peninsulas was completed almost 15 years prior to the release of the 2010 version of the CSA standard, and while Hydro is not in a position to comment on the development of the CSA standard, the authors would have had access to the results of the 1996 study when both the 2010 edition of the standard and the preceding 2006 edition were released."

Has Hydro inquired into the extent to which the Canadian Standards Association investigates local weather data in Canadian jurisdictions to assess the appropriateness of its weather models?

NP-NLH-101

Reference: Response to Request for Information NP-NLH-051.

The response to Request for Information NP-NLH-051 states on page 2 of 2 at lines 3-8:

“The 1996 study which estimated ice loads on the Avalon and Connaigre peninsulas was completed almost 15 years prior to the release of the 2010 version of the CSA standard, and while Hydro is not in a position to comment on the development of the CSA standard, the authors would have had access to the results of the 1996 study when both the 2010 edition of the standard and the preceding 2006 edition were released.”

Please explain the basis for which Hydro believes that the CAN/CSA-C22.3 No. 60826-10 standard supersedes historical meteorological information collected in the province of Newfoundland and Labrador.

NP-NLH-102

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.

NP-NLH-103

Reference: Response to the Request for Information NP-NLH-068.

“The results of that analysis conclude that the estimate of 50-year return period loads developed in Exhibit 85 of the Muskrat Falls Review (which was the basis for the statement in the Basis of Design) shows a much longer return period according to the most recently available CSA reference loads.”

Is Hydro indicating that the 1:50 year return period loads referenced in Exhibit 85 of the Muskrat Falls review could in effect be adjusted upwards as a result of Hydro's application of the current CAN/CSA-C22.3 No. 60826-10 standard? If so, please explain in detail how Hydro reached this conclusion.

NP-NLH-104

Does Hydro anticipate having to add any other generation on the Avalon Peninsula between the present and 2023? If so, please provide details of anticipated additions.

RESPECTFULLY SUBMITTED at St. John's, Newfoundland and Labrador, this 15th day of September, 2015.



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