NEWFOUNDLAND AND LABRADOR
BOARD OF COMMISSIONERS OF PUBLIC UTILITIES
120 Torbay Road, P.O. Box 21040, St. John's, Newfoundland and Labrador, Canada, A1A 5B2

E-mail: gyoung@nlh.nl.ca

2014-02-07

Mr. Geoffrey Young
Newfoundland and Labrador Hydro
P.O. Box 12400
St. John's, NL A1B 4K7

Dear Sirs:

Re: Newfoundland and Labrador Hydro - the Board's Investigation and Hearing into Supply Issues and Power Outages on the Island Interconnected System - Requests for Information

Enclosed are Information Requests PUB-NLH-47 to PUB-NLH-81 regarding the above-noted matter. The deadline for filing the responses to the Requests for Information is Friday, February 14, 2014.

If you have any questions, please do not hesitate to contact the Board's Legal Counsel, Ms. Jacqui Glynn, via jgylnn@pub.nl.ca or (709) 726-6781.

Yours truly,

Bobbi Sheppard

Bobbi Sheppard
Assistant Board Secretary

Encl.
ecc. NEWFOUNDLAND POWER
Mr. Gerard Hayes, E-mail: ghayes@newfoundlandpower.com
Mr. Ian Kelly, QC, E-mail: ikelly@curtisdawe.com

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.

PUBLIC UTILITIES BOARD
REQUESTS FOR INFORMATION

PUB-NLH-47 to PUB-NLH-81

Issued: February 7, 2014

POWER OUTAGES

PUB-NLH-47 Further to the response to PUB-NLH-001, in which the short-term system capacity is provided, provide Hydro's most recent long-term forecast used for determining the timing of the next generation source which includes the current system capacity used for long-term planning purposes. In the response provide a copy of Hydro's most recent Generation Planning Issues report.

PUB-NLH-48 Further to the response to PUB-NLH-001, provide a detailed explanation of the interruptible arrangements with Corner Brook Pulp and Paper Limited ("CBPP") for 60MW, including why the capacity of Deer Lake Power is reduced to 61MW when CBPP interruptible is available.

PUB-NLH-49 Further to the response to PUB-NLH-001, provide a copy of the interruptible contract with CBPP for 60MW.

PUB-NLH-50 Further to the response to PUB-NLH-001, has Hydro determined whether interruptible supply arrangements similar to the arrangement with CBPP, are possible with other industrial customers? In the response include whether discussions have been held with any other customer and the status of discussions.

PUB-NLH-51 Further to the response to PUB-NLH-002, page 4, lines 2-4 in which it is stated that Hydro determined on December 26, 2013 "*there could be difficulty in supplying the required customer demand*", explain in detail why Hydro did not request customers to conserve prior to January 2, 2014 and why not earlier in the day on January 2, 2014 than 2:30 p.m.

PUB-NLH-52 Further to the response to PUB-NLH-003, provide details on the amount of the capacity shortfall and the number of customers affected by the two events listed in the response and the recent period of rotating outages from January 2-8, 2014.

PUB-NLH-53 Further to the response to PUB-NLH-004, provide details of the amount of generation lost and the number of customers affected by the under frequency trips listed in the response.

PUB-NLH-54 Further to the response to PUB-NLH-007, is there a written procedure outlining the coordination process to be followed with Newfoundland Power? If yes, provide a copy. If no, why not?

PUB-NLH-55 Further to the response to PUB-NLH-007, describe in detail the coordination/communication process that occurs each year in relation to Newfoundland Power's 5-year forecast.

PUB-NLH-56 Further to the response to PUB-NLH-008, state the date(s) the criteria used for generation source additions was last reviewed by Hydro. In the response state whether Hydro is of the opinion it should be reviewed in light of Hydro's aging infrastructure and when is the appropriate time to review this criteria.

PUB-NLH-57 Further to the response to PUB-NLH-008, has the criteria for generation source additions been exceeded in any year since 2002? If yes, provide details.

PUB-NLH-58 Further to the response to PUB-NLH-010, attachment #2, explain what action Hydro has taken in response to Manitoba Hydro International's statement that "*Best utility practices would incorporate end-use modeling techniques into the forecasting process so that electricity growth can be quantified for all major domestic end-uses*".

PUB-NLH-59 Further to the response to PUB-NLH-012, explain how and when the additional 10MW will be incorporated in the normal peak day forecast and in future annual forecasts.

PUB-NLH-60 Further to the response to PUB-NLH-013, which states that the load in the last week of December 2013 and the first week of January 2014 was "*exceptional and unusual*", explain in detail why Hydro was unable to forecast the higher load. In the response specifically address why each of the factors listed in the response could not reasonably have been forecast.

PUB-NLH-61 Further to the response to PUB-NLH-018, state when Hydro first became aware there could be a capacity deficit and the amount of the anticipated deficit at that time and now. Explain in the response why Hydro has not to date initiated an application for approval to construct any additional capacity to meet the forecast deficit and what action Hydro has taken to provide the necessary additional generation.

PUB-NLH-62 Further to the response to PUB-NLH-018, which states that there is a capacity deficit identified for 2015, explain in detail each of the "*several generating options potentially available to meet winter peak demand*" that Hydro stated it was pursuing, including the status of the review of each option and the time required to construct or install each option.

PUB-NLH-63 Further to the response to PUB-NLH-018, which states that there is a capacity deficit identified for 2015, what is the status of Hydro's application for approval of a 60MW Combustion Turbine? Include in the response the date Hydro anticipates the application will be filed with the Board and the length of time required for a 60 MW Combustion Turbine to be installed and ready for operation.

PUB-NLH-64 Further to the response to PUB-NLH-018, what is the status of Hydro's investigation into the modification of the black start project referred to in the response? Explain in detail the status of this work and whether the project will be in service in March 2014.

PUB-NLH-65 Further to the response to PUB-NLH-019, is there a minimum available reserve that triggers a decision by Hydro to issue a conservation request to customers? If yes, state what it is. If no, why not?

PUB-NLH-66 Further to the response to PUB-NLH-020, which states that there is "*no measurable means to quantify the amount of demand reduction achieved*", explain whether Hydro is of the opinion that the January 2014 request to customers for conservation initiatives was effective and to what extent was it effective.

PUB-NLH-67 Further to the response to PUB-NLH-030, does Hydro have a written plan or procedure that sets out the operational planning activities to be followed in the event of a forecast severe weather event or known system problem event? If yes, provide a copy. If no, why not?

PUB-NLH-68 Further to the response to PUB-NLH-030, provide details, with examples, of the implementation of any activity listed, providing the rationale for each activity and the impact each had on reducing the duration of outages.

PUB-NLH-69 Further to the response to PUB-NLH-032, provide a copy of Hydro's Corporate Emergency Response Plan.

PUB-NLH-70 Further to the response to PUB-NLH-033, the attachment revision date is stated as April 29, 2009. Is this the last time the Generation Shortage Protocol was updated and is this the date Hydro in the response refers to as "*recently reviewed and updated*"? If no, provide the most recent protocol.

PUB-NLH-71 Further to the response to PUB-NLH-033, are there guidelines or procedures to be followed in the decision to implement each step in the Generation Shortages Protocol? If yes, provide the guidelines or procedures. If no, why not?

PUB-NLH-72 Further to the response to PUB-NLH-035, explain what unforeseen events prevented the December 1 target from being met in 2013. Include in the response why, given the dates in the response to PUB-NLH-036 for the discovery of problems at the Hardwoods and Stephenville gas turbines, these gas turbines could not have been ready for service by December 1.

PUB-NLH-73 Further to the response to PUB-NLH-036, provide a detailed explanation as to why the Hardwoods Gas Turbine could not be repaired in the period October to December 1, 2013.

PUB-NLH-74 Further to the response to PUB-NLH-036, when was it determined that the insulating blankets on end B of the Stephenville Gas Turbine had to be replaced and why was it not completed by December 1, 2013? In the reply include the completion date for this replacement.

PUB-NLH-75 Further to the response to PUB-NLH-041, provide the name of the external resource completing each investigation or review that is referred to, the scope or terms of reference for each review and the anticipated date of completion of each.

PUB-NLH-76 Further to the response to PUB-NLH-041, has Hydro initiated any additional investigations or analysis since this response was filed? Provide the details of any additional investigation including the party completing the investigation, its scope and its scheduled completion date.

PUB-NLH-77 Further to the response to PUB-NLH-042, provide a list of the areas of investigation for groups and teams that are engaged in casual factor analysis and other investigations and the anticipated completion date of the work of each group.

PUB-NLH-78 Further to the response to PUB-NLH-042, outline the composition of the internal five member group which is coordinating the investigations, including a description of their expertise in the areas of investigation.

PUB-NLH-79 Provide the status, including anticipated completion date, of any internal investigations or reviews including those specifically that were referred to in the responses as follows:

(i) Customer conservation communication initiatives (response to PUB-NLH-022);
(ii) The rotating power outage process (PUB-NLH-027);
(iii) Customer priorities for power outages (response to PUB-NLH-029);
(iv) Operational plans in response to severe weather forecasts or system disturbance events (response to PUB-NLH-031; and
(v) Review of critical spares for Holyrood Thermal Generating Station (response to PUB-NLH-038).

PUB-NLH-80 Further to the response to PUB-NLH-043, explain in detail the specific action taken to implement the initiatives listed.

PUB-NLH-81 Further to the response to PUB-NLH-045, explain in detail when and why Newfoundland Power's mobile gas turbine was located at Holyrood in 2013, how long it stayed there, the function it performed there, whether it successfully performed in this function, and if moved from Holyrood, why was it moved.

DATED at St. John's, Newfoundland this 7th day of February 2014.

BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

Per Bobbi Sheppard
Bobbi Sheppard
Assistant Board Secretary