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

2014-03-19

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-109 to PUB-NLH-131 regarding the above-noted matter. The deadline for filing the responses to the Requests for Information is Wednesday, April 2, 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,

Cheryl Blundon
Board Secretary

/bds

cc. **Newfoundland Power Inc.**
Mr. Gerard Hayes, E-mail: ghayes@newfoundlandpower.com
Ian Kelly, QC, E-mail: ikelly@curtisdawe.com
Consumer Advocate
Mr. Thomas Johnson, E-mail: tjohnson@odeaearle.ca
Ms. Colleen Lacey, E-mail: clacey@odeaearle.ca
Island Industrial Customer Group
Mr. Paul Coxworthy, E-mail: pcoxworthy@stewartmckelvey.com
Mr. Dean Porter, E-mail: dporter@pa-law.ca
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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-109 to PUB-NLH-131

Issued: March 19, 2014

PUB-NLH-109 In the response to PUB-NLH-001, footnote one says:

> *"(1) When CBPP Interruptible [Corner Brook P & P Interruptible] is used, to determine what the actual Island Peak Load would have been, the amount of interruptible actually used should be added to the Island Peak Load."*

Does this mean that the last line in Newfoundland and Labrador Hydro's response, labeled "*Island Peak Load*," has the CBPP Interruptible already added into the data that is given, or does it mean that the interruptible data has not yet been added but should have been?

PUB-NLH-110 Further to PUB-NLH-109 what about the other interruptibles, including those on the Newfoundland Power system, should their data also be added to determine what the actual Island Peak Load would have been?

PUB-NLH-111 Further to PUB-NLH-109 what about those consumers of both Newfoundland Power and Newfoundland and Labrador Hydro who have been presented with voltage reductions, should their load reductions also be added back in to determine what the actual Island Peak Load would have been?

PUB-NLH-112 Further to PUB-NLH-109 what about those consumers of both Newfoundland Power and Newfoundland and Labrador Hydro, who are not being served, should their unserved demand also be added back to determine what the actual Island Peak Load would have been?

PUB-NLH-113 In the data set of historic peak loads that Newfoundland and Labrador Hydro uses in its load forecasting process, do those peak load data include added corrections for interruptibles, voltage reductions and unserved demand to determine what the actual Island Peak Load would have been?

PUB-NLH-114 In in the data set of historic energy consumption that Newfoundland and Labrador Hydro uses in its load forecasting process, does that energy consumption data include added corrections for interruptibles, voltage reductions and unserved energy?

PUB-NLH-115 Further to PUB-NLH-114 if the data sets for historic peak loads and energy consumption that Newfoundland and Labrador Hydro uses in its load forecasting process do not now include added corrections for interruptibles, voltage reduction and unserved demand and energy, then if such additions were to be included, would the result be that Newfoundland and Labrador Hydro's forecasts of energy consumption and peak loads increase? If not, why not?

PUB-NLH-116 Further to PUB-NLH-115 if the response is that Newfoundland and Labrador Hydro's forecasts of energy consumption and peak loads would

increase, would that mean that Newfoundland and Labrador Hydro's process of generation planning would then identify larger needs for generation capacity? If not, why not?

PUB-NLH-117 Please confirm (or explain to the extent you do not confirm) that the mainland interconnected electric utilities of North America have, by and large, adopted reliability criteria requiring them to plan to have their generation capacity sufficient such that their experience of an event, where their load exceeds their available generation, can be expected to happen no more frequently that once in ten years. (A LOLP of 0.1 or less per year.)

PUB-NLH-118 Please confirm (or explain to the extent you do not confirm) that prior to 1977, Newfoundland and Labrador Hydro had adopted this "*one event in ten years*" reliability criterion.

PUB-NLH-119 Please confirm (or explain to the extent you do not confirm) that in 1977, Newfoundland and Labrador Hydro changed its reliability criteria to "*one event in five years*".

PUB-NLH-120 Further to PUB-NLH-119 please confirm (or explain to the extent you do not confirm) that after 1977, Newfoundland and Labrador Hydro noted that, for their system, at the time, with their generation capacity planned to a "*one event in five years*" reliability criterion, then Newfoundland and Labrador Hydro had an expectation of 2.8 hours, per year, of Unserved Load.

PUB-NLH-121 Further to PUB-NLH-119 and PUB-NLH-120, please confirm (or explain to the extent you do not confirm) that after 1977, Newfoundland and Labrador Hydro adopted, as a generation capacity reliability criterion, the standard of 2.8 (or less) hours of unserved load, per year.

PUB-NLH-122 Please state whether Newfoundland and Labrador Hydro has established, mathematically, that a standard of 2.8 hours of unserved load, per year, yields the same generation capacity planning as a "one event in five years" reliability criterion.

PUB-NLH-123 Given the state of Newfoundland and Labrador Hydro's system, its planned improvements, and its load forecast, please provide Newfoundland and Labrador Hydro's expected load-generation events per year for 2015, 2016, and 2017.

PUB-NLH-124 Please provide the expected service outage events per year for the system consisting of Muskrat Falls, the dc line from Labrador and the ac output of the inverter at Soldiers Pond.

PUB-NLH-125 Please provide information on the nature and quantity of interruptible Newfoundland and Labrador Hydro customers.

PUB-NLH-126 Please list how many megawatts of demand Newfoundland and Labrador Hydro can shed by requesting its interruptible customers to shed load.

PUB-NLH-127 Please provide data detailing how many times in 2013 Newfoundland and Labrador Hydro requested its interruptible customers to shed load. Of those times, how many were for the purposes of affecting Newfoundland and Labrador Hydro's cost of generation, how many were due to system emergency conditions, and how many times were for some other identified reason?

PUB-NLH-128 Please describe how Newfoundland and Labrador Hydro exercises its right to request interruptible customers by SCADA to shed load, by telephone, or by other contact.

PUB-NLH-129 Please provide information on the nature and numbers of Newfoundland and Labrador Hydro customers whose load can be moderated by voltage reduction.

PUB-NLH-130 Please provide information on how many megawatts of demand Newfoundland and Labrador Hydro estimates that it can shed by the exercise of its voltage reduction capabilities.

PUB-NLH-131 Please provide information showing what is the "*half-life*" of Newfoundland and Labrador Hydro's demand reduction by voltage reduction.

DATED at St. John's, Newfoundland this 19th day of March 2014.

BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

Per _____
Cheryl Blundon
Board Secretary