June 2, 2014

Ms. G. Cheryl Blundon
Board of Commissioners of Public Utilities
120 Torbay Road, P.O. Box 12040
St. John’s, NL A1A 5B2

Dear Ms. Blundon:

Re: Newfoundland and Labrador Hydro – Application for Approval of Expenditures for the Installation of Diesel Units at Holyrood for the Purposes of Black Starting the Generating Units, and for the Deferral of Lease Costs (“Black start”) and Application to Supply and Install 100 MW (Nominal) of Combustion Turbine Generation

Please find enclosed one (1) original and twelve (12) copies of the following Requests for information:

1. Re - Black Start
   CA-NLH-20 to CA-NLH-25

2. Re – 100 MW (Nominal) of Combustion Turbine Generation
   GT-CA-NLH-01 to GT-CA-NLH-26

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

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

Yours very truly,

ODEA, EARLE

THOMAS JOHNSON

T.J/cel
Encl.

cc: Newfoundland & Labrador Hydro
    P.O. Box 12400
    500 Columbus Drive
    St. John’s, NL A1B 4K7
    Attention: Geoffrey P. Young, Senior Legal Counsel
Newfoundland Power
P.O. Box 8910
55 Kenmount Road
St. John's, NL A1B 3P6
Attention: Gerard Hayes, Senior Legal Counsel

Vale Newfoundland and Labrador Limited
c/o Cox & Palmer
Suite 1000, Scotia Centre
235 Water Street
St. John's, NL A1C 1B6
Attention: Thomas J. O'Reilly, Q.C.

Island Industrial Customers Group
c/o Stewart McKelvey
Cabot Place, 100 New Gower Street
P.O. Box 5038
St. John's, NL A1C 5V3
Attention: Paul Coxworthy

Sierra Club Canada
Atlantic Canada Chapter
St. John's, NL
Attention: Mr. Fred Winsor, Conservation Chair

Mr. Danny Dumaresque
31 Portugal Cove Road
St. John's, NL A1B 2N5
IN THE MATTER OF
the Electrical Power Control Act, R.S.N.L. 1994, Chapter E-5.1 (the "EPCA") and the Public Utilities Act, R.S.N.L. 1990, Chapter P-47 (the "Act"), and regulations thereunder;

AND

IN THE MATTER OF
an Application by Newfoundland and Labrador Hydro ("Hydro"), pursuant to Subsection 41(3) of the Act, for approval of the procurement and installation of a combustion turbine at Holyrood.

CONSUMER ADVOCATE REQUESTS FOR INFORMATION
GT-CA-NLH-1 to GT-CA-NLH-26

Issued: June 2, 2014
Please provide the current status on the project size, cost and in-service date.

(April 10, 2014 report entitled Supply and Install 100 MW (Nominal), Table 11, pages 41 and 42) Now that Hydro has received submissions in response to its public tender, please provide an update of the schedule included in Table 11.

(April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation) It is stated that a combustion turbine located at Holyrood provides (page 8) "The ability to return the leased black start diesels at Holyrood". What annual savings and impact on rates are expected to result from this and when will the leased units be returned?

Please provide a list of the proposals received in response to Hydro’s public tender for the 100 MW combustion turbine identifying each project by name, output (nominal), cost in Dollars and $/kW, in-service date, and pertinent comments; i.e., if the project has synchronous condenser capability.

Please file a copy of Hydro’s evaluation and selection report relating to the submissions received in response to its public tender for the 100 MW combustion turbine.

Is the tendering process followed by Hydro for the combustion turbine project an internally approved process? Has it received external approval, for example, by the Board or a Government agency?
Did Hydro follow a tendering process that is consistent with practice elsewhere for procurement of generation facilities such as a combustion turbine? More specifically, is the tendering process followed by Hydro consistent with good utility practice as it relates to competition and the assurance that customers receive optimum value? For example, was the number and quality of proposals received comparable to that in other jurisdictions issuing similar tenders, or was the procurement process too restrictive with too short a turnaround that might necessitate re-issuing the tender?

Were bids received from the expected sources; i.e., the usual suppliers? If not, please explain why the expected sources did not submit bids?

(April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation)
At p. 8, Hydro stated, "To guard against losing the opportunity, Hydro has issued a functional specification through a public tender with a close date of April 21, 2014 with the subsequent award subject to the Board’s approval of this application. The award date to secure such an expedited schedule is April 30, 2014." Please provide details as to how the tender schedule followed in this matter compares to the tender schedule Hydro typically follows for large capital expenditures and as compared to Hydro’s previously Board-filed estimates for the procurement of a combustion turbine.

(April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation)
At p. 9 Hydro states that, “The tender process will be open to both new and ready built (but unused) combustion turbines thus
encouraging original manufacturers as well as aftermarket sources. All proposals must assure an in service date in 2014. Discussions have been held with several vendors and they are aware of the required 2014 in service date. However, to ensure this expedited schedule can be achieved a timely approval by the Board is essential.” What measures were taken by Hydro to make its tender call known to the potential supplier market? How, if at all, did those measures differ from Hydro’s typical measures for tenders of large capital expenditures?

April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation) At p. 9 Hydro states that, “The tender process will be open to both new and ready built (but unused) combustion turbines thus encouraging original manufacturers as well as aftermarket sources. All proposals must assure an in service date in 2014. Discussions have been held with several vendors and they are aware of the required 2014 in service date. However, to ensure this expedited schedule can be achieved a timely approval by the Board is essential.” What is Hydro’s assessment as to how the accelerated in-service date impacted upon the level of market interest in this tender process and provide support for this assessment?

April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation) It is stated (page 9) “Hydro is proposing to negotiate interruptible contracts with major industrial customers at least for 2014-2015”. What is the status of these negotiations?

April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation) It is stated (page 9)
"Hydro is proposing to negotiate interruptible contracts with major industrial customers at least for 2014-2015". How will Hydro determine if the interruptible contracts are economic?

(April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation) It is stated (page 9) "Hydro is proposing to negotiate interruptible contracts with major industrial customers at least for 2014-2015". Will Hydro file these interruptible contracts for Board approval and how does Hydro propose that the costs of these contracts be recovered?

(May 2, 2014 submission by Newfoundland Power entitled Newfoundland and Labrador Hydro – Application for Approval of a Capital Project to Supply and Install 100 MW (Nominal) of Combustion Turbine Generation – Request for Comments) It is stated “Certain of the findings in the Interim Report suggest that the high risk of supply-related emergencies identified by Liberty is attributable to acts or omissions of Hydro related to the planning, maintenance and operation of its generation and transmission assets on the Island Interconnected System. In light of those findings, Newfoundland Power submits it is appropriate that a separate process be undertaken to consider whether or not the costs associated with the Application proposal are prudent and should be recovered from ratepayers”. What is Hydro’s position relating to the prudence of the expenditure for the combustion turbine project in the light of the foregoing statement regarding the acts or omissions of Hydro and their relation to the high risk of supply-related emergencies identified by Liberty?

In Order No. P.U. 16(2014), the Board ordered as follows (page 4, lines 31 to 34) “Hydro’s proposal to proceed with the purchase
and installation of 100 MW of combustion turbine generation at Holyrood Thermal Generating Station is approved, with the issues of costs and cost recovery to be determined by the Board in a future Order”. What cost and cost recovery mechanism is Hydro proposing for the 100 MW combustion turbine project?

(April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation) Table 9 (page 34) shows cost estimates for various combustion turbine alternatives. The cost of the 60 MW combustion turbine option is roughly $2000/kW, while the cost for the 113 MW combustion turbine option is much lower at $1261/kW. The US Energy Information Administration (EIA) (see April 2013 report entitled, “Updated Capital Cost Estimates for Utility Scale Electricity Generating Plants” at http://www.eia.gov/forecasts/capitalcost/pdf/updated_capcost.pdf) estimates the cost of a conventional combustion turbine with nominal rating of 85 MW at US$ 973/kW (Can$ 1058/kW based on an exchange rate of 1 Can$ = 0.92 US$). This includes owner costs of about US$ 162/kW (Can$ 176/kW). An October 23, 2012 report entitled, “Cost and Performance Review of Generation Technologies – Recommendations for WECC 10- and 20-Year Study Process” (at http://www.wecc.biz/committees/BOD/TEPPC/TAS/121012/Lists/Minutes/1/121005_GenCapCostReport_finaldraft.pdf) recommends a target price (for use in economic evaluations) for combustion turbines of US$ 1150/kW (Can$ 1250/kW). This estimate is based on actual costs of a wide range of combustion turbine projects completed in the United States with nominal outputs ranging from 50 MW to 300 MW. While Hydro’s estimate for the larger 113 MW combustion turbine alternative is
comparable with the WECC and EIA estimates, the Hydro estimate for the 60 MW combustion turbine option is considerably higher. Please reconcile this difference.

GT-CA-NLH-18 (April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation)

It is stated (p. 8), "An analysis with budgetary quotations from suppliers has determined that by going to the pre-owned but unused or aftermarket, a combustion turbine can be brought into service at Holyrood in late in 2014 within the $120.8 M cost estimate of a new 60 MW combustion turbine with an in service of December 2015. Therefore, the least cost, reliable option could be a pre-owned but unused 100 MW combustion turbine plant installed at Holyrood in late 2014." (Footnote omitted). Please provide a copy of the analysis referred to in the above quoted statement.

GT-CA-NLH-19 (April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation)

With reference to the statement quoted in the previous Request for Information, please provide the back-up information and analysis that led to Hydro’s cost estimate of $120.8 M for a new 60 MW combustion turbine with an in service of December 2015.

GT-CA-NLH-20 (April 10, 2014 report entitled Supply and Install 100 MW (Nominal) of Combustion Turbine Generation)

At p. 8, Hydro stated, “During the investigation of options for meeting the 60 MW combustion turbine requirement in 2015 and, while examining options for a more immediate generation addition during January of 2014, Hydro identified several combustion turbine options that, with expedited regulatory approval and
contract award, could provide capacity up to 100 MW and in late
service in 2014.” How and what were the several combustion
turbine options identified?

Further to the previous RFI, when did the investigation of options
for meeting the 60 MW combustion turbine requirements in 2015
formally commence?

At p. 9 Hydro states that it “estimates the combustion turbine may
cause an approximate 2.3 per cent increase above existing rates.”
Please provide the calculations that were used to arrive at this
estimate, stating all assumptions and inputs.

At p. 9 Hydro states, “Hydro will be assessing the annual cost of
the combustion turbine plant with its other costs and will make an
appropriate application to the Board for approval for the recovery
of these cost changes in its customers’ rates.” When does Hydro
presently anticipate that it will make such an application to the
Board?

A member of the public, in his submission to the Board dated May
27, 2014 stated, “Since NL Hydro has not used a life-cycle, CPW
methodology (where operating and maintenance costs are
included) to reach its conclusions and recommendations, then I
would submit that NL Hydro has not rationally demonstrated that
a 100 MW combustion turbine is best suited to meet the island's short term reliability and least-cost needs."

Please fully address this submission.

GT-CA-NLH-25 The submission of a private citizen dated April 27, 2014 states, "Given that NL Hydro’s 2008 CDM Potential Study did not explore demand opportunities, how then can NL Hydro’s current application be evidence-based and how therefore can NL Hydro rationally conclude that a 100 MW combustion turbine is the best and least cost option?" Please provide Hydro’s reply to this question.

GT-CA-NLH-26 The submission of private citizen dated April 27, 2014 states, "Accordingly, the application provides insufficient evidence to rationally conclude that CDM (combined with other suitable options) could not provide the required short and long term reliability and least-cost that is needed." Please reply to this submission.

Dated at St. John’s in the Province of Newfoundland and Labrador, this 2\textsuperscript{nd} day of June, 2014.

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