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June 17, 2016

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Via Electronic Mail and Courier

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

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

Dear Ms. Blundon:

**Re: Supply Issues and Power Outages Investigation and Hearing - Phase Two - To
NLH - Requests for Information**

Please find enclosed the original and eight (8) copies of the Requests for Information IC-NLH-22 to IC-NLH-95 of the Island Industrial Customers in the above Application. IC-NLH-22 to 67 are in relation to the Energy Supply Risk Assessment (ESRA) Report, and IC-NLH-68 to 95 are in relation to the Teshmont Report.

We trust you will find the enclosed to be in order.

Yours truly,

Stewart McKelvey

Paul L. Coxworthy

PLC/kmcd

Enclosure

- c. Geoffrey P. Young, Senior Legal Counsel, Newfoundland and Labrador Hydro
- Thomas J. Johnson, Consumer Advocate
- Gerard Hayes, Newfoundland Power
- Denis J. Fleming, Cox & Palmer
- Dean A. Porter, Poole, Althouse
- Roberta Frampton Benefiel, Grand Riverkeeping Labrador Inc.
- Danny Dumaresque

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.

**ISLAND INDUSTRIAL CUSTOMERS GROUP
REQUESTS FOR INFORMATION
IC-NLH-22 to IC-NLH-95**

Issued: June 17, 2016

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 OF
THE ISLAND INDUSTRIAL CUSTOMERS GROUP
IC-NLH-22 to IC-NLH-95**

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RFIs on Hydro’s Energy Supply Risk Assessment (ESRA) Report:

General:

IC-NLH-22 Please confirm that Hydro’s Energy Supply Risk Assessment (ESRA) Report and the Probabilistic Based Transmission Reliability Report by Teshmont use the same assumptions regarding load forecasts, available capacity, unit ratings, reliability criteria, and any other key factors affecting reliability risk assessments. If not, please provide a list of all differences in the assumptions and explain the reasons for each difference.

IC-NLH-23 Please update the status of Hydro’s actions on each recommendation in the December 17, 2014 report Executive Summary prepared by the Liberty Consulting Group with regard to Hydro’s Isolated Island System (IIS).

IC-NLH-24 Please confirm that ESRA Report focused on a risk assessment of Hydro’s ability to meet IIS energy and demand requirements, and measures to avoid reliability risks, during the period prior to completion of either the Labrador Island Transmission Link or the Maritime Link interconnection with the North American grid.

1 **IC-NLH-25** Please confirm that the Maritime Link (ML) and the Labrador
2 Island Transmission Link (LIL) could each be in-service prior
3 to Muskrat Falls being in service, and indicate the earliest
4 potential in-service dates for the ML and for the LIL.

5 **Load Forecast:**

6 **IC-NLH-26** In reference to Table 2 on page 13 of the ESRA Report,
7 please confirm that it is Hydro's intention to use the "Post
8 Budget Sensitivity" load forecast in the system planning for
9 2016/17 winter.

10 **IC-NLH-27** In reference to Table 2 on page 13 of the ESRA Report,
11 please provide details of P50 and P90 load forecasts,
12 including how Hydro estimates probability of actual peak
13 being 50%/90% lower than forecast, conversely being higher
14 than forecast 50%/10% of the time.

15 **IC-NLH-28** In reference to Table 2 on page 13 of the ESRA Report,
16 please provide the IIS Coincident Demand (MW) by
17 customer class for the Base Case (April 4, 2016) and the
18 Post Budget Sensitivity for the P50 and P90 peak demand
19 forecasts for the winters of 2016/17 through 2019/20.

20 **Reliability Analysis:**

21 **IC-NLH-29** In section 4.2, page 6 of the ESRA Report, Hydro notes that
22 it is committed to maintaining a megawatt (MW) reserve of
23 greater than 240 MW to provide the ability to withstand the
24 most onerous single contingency (loss of Holyrood Unit 1 or
25 2) while maintaining a spinning reserve of 70 MW. Please
26 detail how the 240 MW reserve will provide a spinning
27 reserve of 70 MW with the loss of Holyrood Unit 1 or 2.

28 **IC-NLH-30** In section 4.2, page 6 of the ESRA Report, please confirm if
29 the referenced N-1 generation contingency for loss of
30 Holyrood Units 1 or 2 considers de-rated capacity of the
31 Holyrood units as assumed by Hydro in Table 4 [page 18] of
32 the ESRA Report.

33 **IC-NLH-31** Please explain why the nameplate rating for Holyrood Units
34 1 and 2 are shown at 175 MW in Table 4 [page 18] of the
35 ESRA Report compared to 170 MW in the table in Appendix
36 A of that Report.

37

- 1 **IC-NLH-32** Please provide details on how the Island Interconnected
2 System customers would be impacted by generation and
3 transmission N-1 events, and describe each step that Hydro
4 would take to reduce impact to the customers.
- 5 **IC-NLH-33** In reference to sections 4.2 and 4.3 of the ESRA Report,
6 please provide details of the N-1 generation and
7 transmission contingencies required to be reviewed after
8 TL267 is in service. Please provide the most onerous single
9 generation contingency and transmission contingency after
10 TL267 is in service.
- 11 **IC-NLH-34** In reference to sections 4.2 and 4.3 of the ESRA Report,
12 please provide details of the N-1 generation and
13 transmission contingencies required to be reviewed for the
14 IIS after the Labrador Island Transmission Link (LIL) is in
15 service (assuming that neither Muskrat Falls nor the
16 Maritime Link (ML) are yet in service). Please provide the
17 most onerous single generation contingency and
18 transmission contingency after the LIL is in service.
- 19 **IC-NLH-35** In reference to sections 4.2 and 4.3 of the ESRA Report,
20 please provide details of the N-1 generation and
21 transmission contingencies required to be reviewed for the
22 IIS after the Maritime Link (ML) is in service (assuming the
23 LIL is not yet in service). Please provide the most onerous
24 single generation contingency and transmission contingency
25 after the ML is in service.
- 26 **IC-NLH-36** In reference to sections 4.2 and 4.3 of the ESRA Report,
27 please provide details of the N-1 generation and
28 transmission contingencies required to be reviewed for the
29 IIS after Muskrat Falls and the LIL are in service (assuming
30 that the ML is not yet in service). Please provide the most
31 onerous single generation contingency and transmission
32 contingency after Muskrat Falls and the LIL are in service.
- 33 **IC-NLH-37** The January 2014 outages showed that in addition to the
34 Holyrood issues, system disruptions occurred due to issues
35 with the other power supply equipment [Sunnyside and
36 Western Avalon transformers, Sunnyside Bus protection
37 failure]. Please explain how reliability risks relating to such
38 other power supply equipment issues are addressed in
39 Hydro's report, and the potential for such other reliability
40 risks to once again aggravate IIS disruptions.

- 1 **IC-NLH-38** In reference to section 4.2 of the ESRA Report, please
2 compare the importance of the reliability of the power supply
3 equipment versus generation units, including comparison of
4 recovery periods [based on historical data].
- 5 **IC-NLH-39** Please confirm that the historical dry sequence assumed in
6 the hydrology analysis for Figures 3 and 4 on page 16 of the
7 ESRA Report is the period in the late 1950s and early
8 1960s, and that this period is the lowest inflows in Hydro's
9 hydrological record. Please provide Figures 3 and 4 in a
10 table format.
- 11 **IC-NLH-40** Please explain why the increase in Holyrood DAFOR results
12 in increases hydraulic generation for 2016 and 2017 as
13 illustrated in Table 3 on page 17 of the ESRA Report.
- 14 **IC-NLH-41** Table 4 [page 18] of the ESRA Report assumes all three
15 Holyrood units were de-rated based on Hydro's Asset
16 Management team recommendations. What is the Hydro's
17 expectation of any future de-ratings of these units prior to
18 2021?
- 19 **IC-NLH-42** Please describe the assumed role, for the purposes of the
20 ESRA Report, that Holyrood oil-fired, gas-fired and diesel
21 units each would play after the LIL is in service (assuming
22 that neither Muskrat Falls nor the ML is yet in service).
- 23 **IC-NLH-43** Please describe the assumed role, for the purposes of the
24 ESRA Report, that Holyrood oil-fired, gas-fired and diesel
25 units each would play after the ML is in service (assuming
26 that the LIL is not yet in service).
- 27 **IC-NLH-44** Please describe the assumed role, for the purposes of the
28 ESRA Report, that Holyrood oil-fired, gas-fired and diesel
29 units each would play after the LIL, ML and Muskrat Falls
30 are all in-service. Describe any expected changes over the
31 period from current conditions through to 2030.
- 32 **IC-NLH-45** On pages 18-19 of the ESRA Report, Hydro notes that under
33 P90 peak loading conditions there is a risk of an overload in
34 the TL202-TL206 transmission corridor where the gross
35 Avalon load exceeds approximately 935 MW. Does the
36 purchase of the 12 MW "black start" diesel units change this
37 assessment? If the assessment does change, please
38 provide revised analysis with these diesel units included.
- 39

- 1 **IC-NLH-46** Table 7 on page 22 of the ESRA Report shows that a
2 violation of the 240 MW criteria occurs in only one case, for
3 the fully stressed reference case with P90 forecast in Winter
4 2017-18 where reserve margin is 238 MW, 2 MW less than
5 the 240 MW threshold. Please confirm that with the
6 acquisition of the 12 MW “black start” diesel units this
7 “violation” would not exist. Please provide updated version of
8 Table 7 with these diesel units included.
- 9 **IC-NLH-47** Section 7.3.1 of the ESRA Report, indicates that a firm recall
10 power from Labrador at 110 MW at Soldiers Pond would be
11 available over the LIL for the duration of the study period.
12 Please explain any conditions assumed for the import of this
13 power beyond the LIL being in-service, i.e., does this
14 assume that Muskrat Falls and/or the Labrador Transmission
15 Assets are in service?
- 16 **IC-NLH-48** Is Hydro planning to work with Emera or other utilities after
17 the Maritime Link is in service to consider a power support at
18 times of peaks and outages, including using spring/summer
19 freshetpower purchases from third party power suppliers in
20 the IIS system?
- 21 **IC-NLH-49** In the Executive Summary of the ESRA Report, Hydro notes
22 that *“from an energy perspective, based on Hydro’s asset
23 reliability and in consideration of the critical dry sequence,
24 Hydro is confident in its ability to meet IIS energy
25 requirements for all scenarios considered” and “that until
26 interconnection to the North American grid is achieved, there
27 is a risk of expected unserved energy (EUE) in excess of
28 planning criteria for Holyrood plant DAFORs greater than
29 14%.”* However, Tables 8-10 on pages 23-24 of the ESRA
30 Report show EUE in excess of Planning Criteria in 2016/17
31 and 2017/18 even with 14% DAFOR. Please reconcile
32 Hydro’s above-noted statements to Table 7 and Tables 8-10
33 analysis.
- 34 **IC-NLH-50** Please explain why Appendix A of the ESRA Report lists
35 capacity assistance capacity for Vale, but does not show
36 Newfoundland Power curtailable load and CBPP capacity
37 assistance capacity.
- 38 **IC-NLH-51** Please explain why Appendix A of the ESRA Report lists
39 capacity assistance capacity for Vale, but does not show
40 Newfoundland Power curtailable load and CBPP capacity
41 assistance capacity.

1 **Measures:**

2 **IC-NLH-52**

3 On page 31 of the ESRA Report, Hydro notes that the
4 *“preliminary analysis indicates that the advancement of*
5 *TL267 will likely result in a shifting of cash flows between*
6 *years and is not, at this point, expected to have a material*
7 *increase in cost.”* In Hydro’s opinion what additional cost
8 may arise and what is the magnitude of the increase in the
9 costs from the advancement of the in-service date for TL267
to be available for Winter 2017/18?

10 **IC-NLH-53**

11 In reference to sections 8.1 and 8.3 of the ESRA Report,
12 please show the extent to which the acquisition of the 12
13 MW “black start” diesel units helps to avoid the requirement
for advancement of the in-service date for TL267.

14 **IC-NLH-54**

15 In reference to sections 7.4 and 8.3 of the ESRA Report,
16 please update Tables 7-10 to show the impact only of the
acquisition of 12 MW “black start” diesel units.

17 **IC-NLH-55**

18 In reference to the statement at lines 4-7 on page 9 of the
19 ESRA Report, please provide breakdown of \$186 million
20 capital projects expected to be completed in 2016, showing
21 how much of this expenditure is expected to be for reliability,
22 system improvements, legal/regulatory compliance, safety,
regular maintenance, and other requirements.

23 **IC-NLH-56**

24 In reference to the statement at lines 4-7 on page 9 of the
25 ESRA Report, please confirm that all projects for the \$186
26 million capital expenditures were part of the capital budget or
supplemental capital filings before the Board.

27 **IC-NLH-57**

28 In reference to the statements at lines 9-16 on page 9 of the
29 ESRA Report, Hydro notes that it implemented an integrated
30 equipment outage management tracker, annual winter
31 readiness targets and improved severe weather
32 preparedness checklists. Please provide details of any
33 reviews that Hydro has done with regard to procedures in
34 other jurisdictions when implementing these trackers,
targets, guidelines and checklists.

35 **IC-NLH-58**

36 In reference to the statements at lines 9-16 on page 9 of the
37 ESRA Report, please indicate how, and how often, Hydro
38 intends to review and refine these trackers, targets,
39 guidelines, and checklists over time, and what presently
40 foreseeable or anticipated developments will trigger such
review.

- 1 **IC-NLH-59** In reference to the measures for improve reliability described
2 on page 9 of the ESRA Report, please provide details of any
3 training programs that Hydro has established since January
4 2014 for its employees to follow procedures/ protocols/
5 guidelines for improved reliability performance.
- 6 **IC-NLH-60** On page 10 of the ESRA Report, Hydro notes that it
7 developed and implemented three levels of alerts to advise
8 customers on the status of the power supply so customers
9 can better prepare for any potential impacts. Please provide
10 details how these communications are expected to be
11 handled with the major customers, particularly with the
12 industrial customers.
- 13 **IC-NLH-61** In reference to section 8.2 of the ESRA Report, please
14 confirm if the addition of 60 MW gas turbine has been
15 approved by the Board, and if not when it is anticipated
16 application will be made to the Board seeking such approval.
17 Please provide details of the project, including expected
18 costs and time required to bring into service.
- 19 **IC-NLH-62** In reference to section 8.2 of the ESRA Report, please
20 explain what, if any, benefit occurs with the addition of 60
21 MW gas turbine if TL267 in service date is advanced by one
22 year.
- 23 **IC-NLH-63** In reference to section 8.3 of the ESRA Report,pPlease
24 confirm the status of Hydro's activities with customers,
25 including industrial customers, to secure an additional
26 curtailable load for 2016/17 winter, and the likelihood today
27 of any specific added curtailable load being secured prior to
28 that winter.
- 29 **IC-NLH-64** Please confirm that an additional curtailable load for 2016/17
30 winter is the only option to avoid EUE in excess of planning
31 criteria and potential outages when Holyrood DAFOR is 14%
32 and higher in 2016/17. If not, please provide other options
33 available for 2016/17.
- 34 **IC-NLH-65** In reference to section 8.4 of the ESRA Report, please
35 provide capital expenditures for Holyrood for the last 10
36 years and the impact of those expenditures to the reliability
37 of the units.
- 38

1 **IC-NLH-66** In reference to section 8.4 of the ESRA Report, please
2 provide a list of capital projects and associated costs
3 required for Holyrood to “*ensure continued delivery of safe,*
4 *reliable power to its customers through interconnection*”.

5 **IC-NLH-67** Please provide the cost and customer impact for each
6 option/alternative that Hydro considered in the ESRA Report,
7 including impact to reliability analysis [LOLH, EUE] for
8 2016/17 through 2019/20.

9 **RFIs on Teshmont Report – Probabilistic Based Transmission Reliability Report:**

10 **General questions:**

11 **IC-NLH-68** In reference to section 2.3, page 9 of the Teshmont Report,
12 please confirm that the reason for using 2011-2013 average
13 load shape was the timing of study, i.e. the study was started
14 in 2014. What is Hydro’s expectation of the impact of 2014
15 and 2015 load shapes to the analysis in the report?

16 **IC-NLH-69** Please confirm that Figure 7 on page 10 of the Teshmont
17 Report starts with January 1st, i.e. 0 hour is January 1st 12
18 am.

19 **IC-NLH-70** Please comment on the statement on page 10 of the
20 Teshmont Report regarding transmission line failure rates,
21 which states that “*five years of data was considered*
22 *insufficient to provide statistically meaningful data for*
23 *individual lines*”. What would be impact of using five year
24 data compared to the data based on a longer historical
25 period?

26 **IC-NLH-71** In reference to Table 23 at page 43 of the Teshmont Report,
27 “Major Hydro Owned or Power Purchase Generating Units in
28 Pre-HVDC and Post-HVDC Cases”, please confirm that the
29 table includes all Power Purchase Generating Units. If not,
30 please explain.

31 **Post-Muskrat Falls, LIL and ML reliability:**

32 **IC-NLH-72** Please confirm that the table on page 5 of Hydro’s Summary
33 Report (relating to the Teshmont Report) shows that even
34 with the Post-HVdc condition the addition of Muskrat Falls
35 capacity is not sufficient to meet the total demand and this
36 results 2.72 GW.h/year EUE in excess of planning criteria.

37

- 1 **IC-NLH-73** Please explain why the addition of 834 MW load to the IIS
2 system through Labrador Island Link [LIL], as per Figure 6
3 on page 8 of the Teshmont Report, still would result in a 2.72
4 GW.h/year EUE [without Maritime Link].
- 5 **IC-NLH-74** In reference to the table on page 5 of Hydro's Summary
6 Report, please confirm that 2.72 GW.h/year EUE is
7 estimated taking into account of Hydro's power purchases,
8 including purchases under capacity assistance agreements,
9 Newfoundland Power thermal units. If not, please explain.
- 10 **IC-NLH-75** In reference to the table on page 5 of Hydro's Summary
11 Report,, please confirm that 2.72 GW.h/year EUE is
12 estimated based on an assumption that Holyrood units
13 would be off line.
- 14 **IC-NLH-76** On page 6 of Hydro's Summary Report, Hydro notes that
15 "*[t]he material repair time requirement for the submarine*
16 *cable justifies the spare cable, which is being constructed*
17 *and will be maintained in service.*" Section 5.2.1.3 of the
18 Teshmont Report notes that "*the loss of a pole would require*
19 *the loss of two cables*". Please provide rationale for Hydro's
20 statement considering the statement in the Teshmont
21 Report.
- 22 **IC-NLH-77** Please provide Figure 3 on page 4 of the Teshmont Report
23 using 2018 peak case.
- 24 **IC-NLH-78** Page 1 of the Teshmont Report references "*two 315 kV ac*
25 *transmission lines between Churchill Falls and Muskrat*
26 *Falls*". Please provide the main purpose of these
27 transmission lines and cost impact to the Hydro customers
28 on the IIS.
- 29 **IC-NLH-79** Please confirm if corrective actions in the Tables 13 through
30 16 of the Teshmont Report are based on Teshmont's
31 independent analysis. If not, please explain.
- 32 **IC-NLH-80** Please explain why EUE for TL208, the line supplying Vale
33 and Praxair, is slightly higher [41.94 MW.h/year compared to
34 41.43 MW.h/year] under Post-HVDC compared to Pre-
35 HVDC in Teshmont Report, page 39.
- 36 **IC-NLH-81** Please confirm that the table provided in the executive
37 summary [page i], and Tables 17 [page 34] and 21 [page 39]
38 of the Teshmont Report assume two contingency events for
39 the Pre-HVDC cases: namely, unavailability of the Holyrood
40 units G1 and G2, and unavailability of all three Holyrood oil

1 fired units at the same time. Please confirm that the EUE
2 under the event with all three units unavailable is lower than
3 the EUE with only two units unavailable, as shown in these
4 tables, due to the lower probability of all three units versus
5 only the G1 and G2 units being unavailable at the same
6 time.

7 **IC-NLH-82** In reference to Table 23 in Appendix A [page 43] of the
8 Teshmont Report, and Figures 3 and 4 [page 4] of the
9 Teshmont Report please provide details why output from
10 Bay d'Espoir is reduced by about 122 MW under Post-HVDC
11 compared to Pre-HVDC.

12 **IC-NLH-83** Further to the above, please update table on page ii of the
13 executive summary of Teshmont Report by including all Bay
14 d'Espoir units currently in service.

15 **IC-NLH-84** In reference to Table 23 in Appendix A [page 43] of the
16 Teshmont Report, please confirm that Holyrood units are
17 assumed to be in standby mode only up until 2020. If this is
18 not the case, please explain and provide the time period that
19 these units will continue to remain in standby mode.

20 **IC-NLH-85** In reference to Table 23 in Appendix A [page 43] of the
21 Teshmont Report please confirm that gas turbines
22 [Holyrood, Stephenville, Hardwoods] are assumed to be in
23 standby mode after Holyrood TGS is retired? If not, please
24 explain.

25 **Commercial Contract:**



26 **IC-NLH-86** Emera Newfoundland and Labrador in its website notes "The
27 Maritime Link Project is a 35-year investment equal to 20
28 percent of the total cost of Phase I of the Lower Churchill
29 Project and the Maritime Link, in exchange for 20 percent of
30 the electricity from Muskrat Falls" [source:
31 <http://www.emeranl.com/en/home/themaritimelink/overview.aspx>,
32 accessed on June 9, 2016]. Please confirm that 20 percent
33 of the electricity from Muskrat Falls is expected to be
34 supplied to Nova Scotia and will not be available to supply
35 Hydro load on the IIS.

36 **IC-NLH-87** Page 1 of the Teshmont Report notes that up to 300 MW
37 can be exported from Nova Scotia to Newfoundland and
38 Labrador using proposed Maritime Link transmission line
39 under a LIL contingency. Please provide details if Hydro, or if
40 Hydro is aware any other party, has entered into any


- 1 agreement with Emera or other providers regarding such
2 power purchases using the proposed Maritime Link
3 transmission line.
- 4 **IC-NLH-88** Please confirm that imports to the IIS through the Maritime
5 Link would occur under LIL outages and Holyrood units out
6 of service.
- 7 **IC-NLH-89** What is the earliest expected in-service date for the Maritime
8 Link? To what extent can this in-service occur prior to the in-
9 service of Muskrat Falls and the LIL?
- 10 **IC-NLH-90** Please explain the changes in load transfers Pre and Post
11 HVDC in Figures 3 and 4 [page 4] of the Teshmont Report,
12 including the reasons for the increase in load transfers to the
13 east of the IIS and further to the Maritime Link.
- 14 **IC-NLH-91** Please confirm that on Figure 4 [page 4] of the Teshmont
15 Report a new transmission line between Granite Canal and
16 Bottom Brook (TL269) shows load transfer of 103 MW from
17 Granite Canal to Bottom Brook and further to the proposed
18 Maritime Link.
- 19 **IC-NLH-92** Please provide the main purpose of the TL269 transmission
20 line, all costs related to development of Maritime Link, and
21 any expected cost impacts to the Hydro IIS customers.
- 22 **Power Purchase Agreements:**
- 23 **IC-NLH-93** Please provide Hydro's assessments regarding the future of
24 the power purchase agreements from third parties after
25 Muskrat Falls and Labrador link.
- 26 **Cost of Service Impacts:**
- 27 **IC-NLH-94** In reference to the statements on page 1 of the Teshmont
28 Report in relation to the Maritime Link, please confirm that all
29 costs related to proposed Maritime Link transmission line,
30 whether considered direct or indirect costs, and including
31 without limiting the foregoing the required modifications to
32 the Bottom Brook Terminal Station, are covered by third
33 parties and there is no cost impact to Hydro customers.
- 34 **IC-NLH-95** In reference to section 5.1.2 of the Teshmont Report, please
35 provide details of any modifications/ upgrades that may be
36 required to IIS transmission or terminal stations due to the
37 Maritime Link. Please provide cost estimates for those
38 modifications/upgrades.

DATED at St. John's, in the Province of Newfoundland and Labrador, this _____ day of June, 2016.

POOLE ALTHOUSE

 Per: 
Dean A. Porter

STEWART MCKELVEY

Per: 
Paul L. Coxworthy

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