IN THE MATTER OF the *Public Utilities Act* (the "Act"): and

IN THE MATTER OF an Application by Newfoundland and Labrador Hydro for an Order approving (1) its 2011 Capital Budget pursuant to s. 41(1) of the Act; (2) 2011 capital purchases construction projects in excess of \$50,000.00 pursuant to s. 41(3)(a) of the Act; (3) its leases in excess of \$5,000.00 pursuant to s. 41(3)(b) of the Act; and (4) its estimated contributions in aid of construction for 2011 pursuant to s. 41(5) of the Act and for an Order pursuant to s. 78 of the Act fixing and determining its average rate base for 2009

1 REQUESTS FOR INFORMATION OF THE INDUSTRIAL CUSTOMERS

2 Re General

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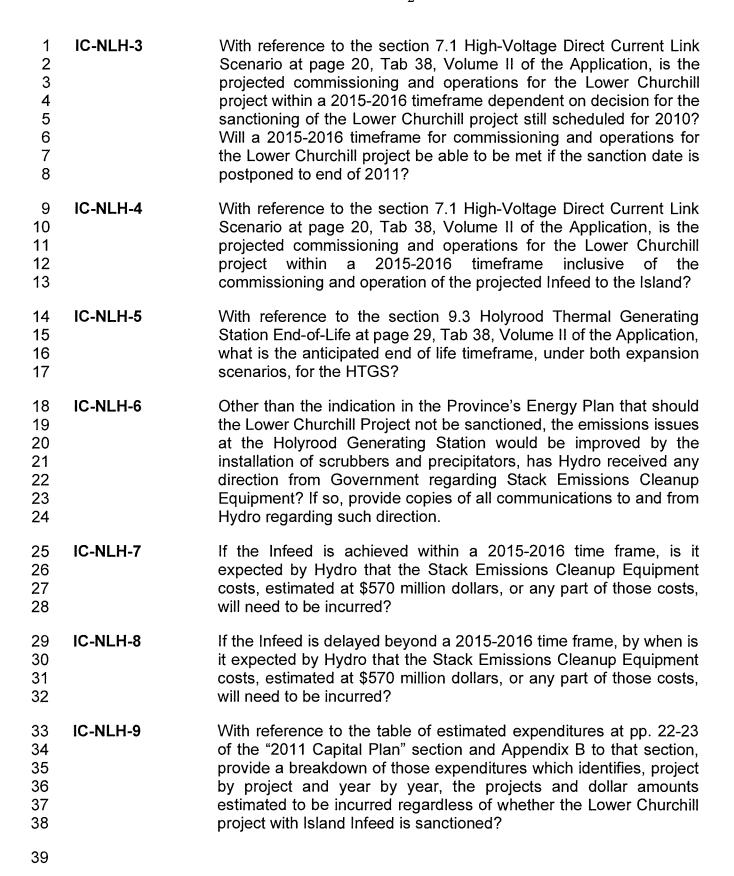
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For each of the projects under Tab C (\$500,000 and over) indicate what amount of each project will give rise to assets which, for Cost of Service Study purposes, will be specifically assigned to Rural Operations and what amount will be assigned to common.

Re 2011 Capital Plan Section, pages 22-23, "Holyrood Projects in a No Infeed Scenario:

At page 22 of the "2011 Capital Plan" section of its Application, Hydro refers to the indication in the Province's Energy Plan that should the Lower Churchill Project not be sanctioned, the emissions issues at the Holyrood Generating Station would be improved by the installation of scrubbers and precipitators. Hydro goes on to state that should the Lower Churchill Project not be constructed, or be delayed, there is a significant amount of additional work required at Holyrood. Hydro has provided, by a table at pp. 22-23 of the "2011 Capital Plan" section, what it describes as a "very preliminary" estimate of the expenditures required to maintain the Holyrood facility in reliable and efficient operating condition. The Industrial Customers have the following requests for information in relation to these statements:

IC-NLH-2 With reference to the section 10.0 Conclusion at page 30, Tab 38, Volume II of the Application, is the decision for the sanctioning of the Lower Churchill project still scheduled for 2010?



1 2 3 4 5 6 7	IC-NLH-10	With reference to the table of estimated expenditures at pp. 22-23 of the "2011 Capital Plan" section and Appendix B to that section, provide a breakdown of those expenditures which identifies, project by project and year by year, the projects and dollar amounts estimated to be incurred if the Lower Churchill project with Island Infeed is sanctioned with a commissioning and operations timeframe of 2015/2016?
8 9 10 11 12 13 14 15	IC-NLH-11	With reference to the table of estimated expenditures at pp. 22-23 of the "2011 Capital Plan" section and Appendix B to that section, provide a breakdown of those expenditures which identifies, project by project and year by year, the projects and dollar amounts estimated to be incurred if the Lower Churchill project with Island Infeed is maintained as a planning option but with a commissioning and operations timeframe which is indefinitely postponed beyond 2015/2016?
16 17 18 19 20	IC-NLH-12	With reference to the two projects referenced at p. 9 causing significant peaks, what projects were removed from the Plan or reduced in scope as a result of the two major projects being added? How were these projects chosen for cancellation, deferral or reduction and what were the consequences to the system?
21 22 23 24	IC-NLH-13	With reference to the Stephenville Gas Turbine project and the reference thereto at p. 11, explain what is meant by "reprioritization of this work relative to other projects" and indicate what are the "other projects" referred to in this phrase.
25 26 27 28	IC-NLH-14	Given the potential for spending more than \$800,000,000.00 on refurbishing Holyrood in a no infeed scenario, what investigation has Hydro done with respect to potential replacement of the Holyrood facility.
29 30 31 32	IC_NLH-15	Provide the latest cost estimates for each of the following projects identified in the Generation Planning Issues document at Tab 38 Volume 2: Island Pond, Portland Creek, Round Pond, combined cycle plant, HTGS Unit IV.
33	Re 2011 Capital P	lan – Individual Capital Projects:
34 35	The Industrial Customers have the following requests for information in relation to individual capital projects:	
36 37 38 39 40	IC-NLH-16	Project B-5, Upgrade Stack Breeching Unit 1 : This project expenditure is estimated at over \$3.5 million. The original stack breeching was replaced in 1990, with 20-year life, at a cost of \$656,777 (reference: Volume I, Tab 2, page 8, section 3.2). Explain the factors resulting in this almost 6-fold cost inflation.

1 IC-NLH-17 Project B-5, Upgrade Stack Breeching Unit 1: This project 2 expenditure is being proposed based on the anticipated useful life 3 of Unit 1 being forecasted to extend to 2020, absent an infeed from 4 Lower Churchill schedule (reference: Volume I, Tab 2, page 8, 5 section 3.3). If, as indicated by the Holyrood Condition Assessment 6 and Life Extension Study (reference: Volume I, Tab 5, page 5) 7 Holyrood will be placed in standby generation mode from 2016 until 8 2020, are the assumptions and considerations for the operation of 9 Unit 1 and the Cost Benefit Analysis between stack breeching 10 replacement and refurbishment the same for the period 2010-2016 11 as compared to the standby period of 2016-2020? 12 IC-NLH-18 Project B-5, Upgrade Stack Breeching Unit 1: With reference to 13 IC-NLH-13, provide a CBA and Cumulative Present Worth (CPW) 14 for Alternatives 1 and Alternative 2 based on any changes in 15 applicable assumptions and considerations arising from Holyrood 16 being in standby mode for the period 2016-2020. 17 IC-NLH-19 Project B-5, Upgrade Stack Breeching Unit 1: Appended at the 18 end of the appendix at Volume I, Tab 2, is a 2010-07-02 Alstom 19 letter, which offers clarifications and opinions in relation to the 20 Alstom Engineering Report. At the third page of this letter, it is 21 stated "It is far more difficult to predict the longevity of the repair 22 option and certainly, it will depend on the amount of block removed 23 for casing inspection and repair. If all of the block is removed (old 24 Option A3) and extensive repairs are completed to essentially 25 restore the ductwork to like new condition, then a life of 5 years or 26 longer with relatively minor annual repair costs might be a reasonable assumption." Is "old Option A3" the same as Alternative 27 28 2 identified in Volume I, Tab 2, pages 14-16, section 4.3)? If not, 29 provide a CBA and Cumulative Present Worth (CPW) for Option A3 30 based on a study period to 2020, taking into account Holyrood 31 being in standby mode for the period 2016-2020. 32 IC-NLH-20 Project B-5, Upgrade Stack Breeching Unit 1: Presumably, the 33 34 35 36

substantial issues with the Stack Breeching in Unit 1 have been known to Hydro since the first version of the Alstom Engineering Report was issued on December 18, 2008. Presumably, Hydro has taken, over the last 20 months, and will continue to take until refurbishment or replacement is approved, the necessary interim monitoring and repair work necessary to prudently manage those issues. What has been the cost incurred by Hydro in the last 20 months of managing those issues (less the cost of the Alstom reports) and what is the estimated cost to Hydro of continuing to manage those issues, in the same manner, to December 2011?

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1 2 3 4	IC-NLH-21	Project B-5, Upgrade Stack Breeching Unit 1 : Provide copies of all previous versions of the Alstom Engineering Report, the versions identified as that of December 18, 2008, Rev. 1 – March 4, 2009, Rev. 2 – August 28, 2009, and Rev. 3 – March 25, 2010.
5 6 7 8 9	IC-NLH-22	Project B-5, Upgrade Stack Breeching Unit 1 : Provide the complete detail of the assumptions and calculations for the CBA and CPWs provided by Hydro at Volume I, Tab 2, pages 14-16, section 4.3, and to be provided by Hydro in response to the above requests for information.
10 11 12 13	IC-NLH 23	Project B-8, Refurbish Fuel Storage Facility : Provide amounts of fuel stored in each of the four tanks on a monthly basis for the past two years, preferably using the same day in each month for the readings if that data is available.
14 15	IC-NLH 24	Project B-8, Refurbish Fuel Storage Facility : Provide in detail any implications for deferring this project for 2 years.
16 17 18 19 20	IC-NLH 25	Project B-10, Upgrade Hydrogen SystemHolyrood : Provide details and all underlying assumptions with respect to the cost benefit analysis of this project, including particulars of what work would be done under the alternative upgrade without electrolyzer and bulk storage.
21 22 23	IC-NLH 26	Project B-15, Overhaul Gas Turbine-Holyrood : Has Hydro investigated the costs of replacing the engine on this turbine and what is Hydro's current estimate of that cost?
24 25 26 27 28 29	IC-NLH-27	Project B-22, Upgrade Unit 1 Forced Draft Fan Ductwork: With reference to IC-NLH-13 and to Volume I, Tab 9, pages 10-11, section 4.3, provide a CBA and Cumulative Present Worth (CPW) for Alternatives 1 and Alternative 2 based on any changes in applicable assumptions and considerations arising from Holyrood being in standby mode for the period 2016-2020.
30 31 32 33 34	IC-NLH-28	Provide the complete detail of the assumptions and calculations for the CBA and CPWs provided by Hydro at Volume I, Tab 2, pages 14-16, section 4.3 and at Volume I, Tab 9, pages 10-11, section 4.3, and to be provided by Hydro in response to the above requests for information.
35 36 37	IC-NLH 29	Project B-28, Upgrade Generating Station Service Water System—Cat Arm: What has been the operating experience with fouling of the stainless steel piping installed at Granite Canal?
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1 2 3 4	IC-NLH 30	Project B-59, Upgrade Power Transformers—Various Sites: Explain in respect of each line item in Table 8 on p. 26 of the Report at Tab 25 why these items constitute capital as opposed to operating expenditures.
5 6 7 8	IC-NLH 31	Project B-81, Replace MDR 6000 Microwave Radio (West)—Various Sites: Has Hydro developed a specification or identified particular brands or models of equipment on which the proposed budgeted amount for equipment is based?
9 10 11 12 13	IC-NLH-32	Project B-83, Replace Network Communications Equipment—Various Sites: Provide the Newfoundland and Labrador Hydro Infrastructure Review and Proposed Design report of Hewlett-Packard Canada dated April 22, 2010 referred to in footnote 2 on p. 13 of the Report at Tab 37
14 15 16	IC-NLH-33	Project C-2, Upgrade Burnt Dam Spillway Structure—Bay d'Espoir: On how many occasions in the life of this structure has it been necessary to open both gates at the same time?
17 18 19 20 21	IC-NLH-34	Project C-2, Upgrade Burnt Dam Spillway Structure—Bay d'Espoir: Explain the necessity to proceed with this project in 2011 in light of Hatch's finding of a Health Index of 66 which implies that the asset is in good condition with some deterioration or deficit apparent but function not significantly affected. (Table 2-1 p. C 32)
22 23 24	IC-NLH-35	Project C-44, Install Weatherhoods for Vent Fans—Holyrood: Provide the Maintenance History for the weatherhoods on Stage 2 of the HTGS.
25 26 27	IC-NLH-36	Project C-44, Install Weatherhoods for Vent Fans—Holyrood: What is the justification for installing hoods on the vents on the north side which show no backflow in the tests?
28 29 30	IC-NLH-37	Project C-44, Install Weatherhoods for Vent Fans—Holyrood: What savings would be achieved by eliminating two north side vents and four south side vents from the project?
31 32 33	IC-NLH-38	Project C-44, Install Weatherhoods for Vent Fans—Holyrood: What quantitative evidence, if any, does Hydro have that air quality inside the plant is being impaired by the backflow?
34 35 36 37	IC-NLH-39	Project C-75, Purchase Excavators—Bishop's Falls : Provide evidence that the minister has actually required, as he is given power to do under s. 261(2), a rollover protection system on the backhoes in question.

1 2 3	IC-NLH-40	Project C-75, Purchase Excavators—Bishop's Falls : Will any vehicle be retired as a result of the acquisitions contemplated in this project? If not, why not?
4 5	IC-NLH-41	Project C-89 Replace Mini Hydro Turbine—Roddickton: What is the projected life of the Mini Hydro Plant?
6 7 8	IC-NLH-42	Project C-178 Replace iSeries Computer and Upgrade Operating System—Hydro Place: Does Nalcor use this system and, if so, what costs are assigned to Nalcor in respect of it?
9 10 11	IC-NLH-43	Project C-204 Remove Safety Hazards—Various Sites : How is the project cost calculated and how does it relate to the items identified on p. C-205 to be addressed in 2010?
12	Re: 2011 Capital F	Plan: 2010 Capital Expenditures Explanations
13 14 15 16	IC-NLH-44	Provide a detailed breakdown of the cost overruns associated with the project to Replace Accommodations, Septic System and Upgrade Plant Communications System—Cat Arm, as referenced on p. H-18 item 6.
17 18 19 20	IC-NLH-45	Confirm that, with the cost overrun on this project, the Net Present Value calculation included in the Report at Tab 7 of Volume 2 of the 2009 Capital Budget would show an opposite result—i.e. the "stay off site" option would be preferred.
21	Re 2011 Capital P	lan – Generation Planning Issue 2010 July Update
22 23 24	IC-NLH-46	Describe the mechanism under which Hydro receives energy from the expropriated assets at Star Lake and on the Exploits River as referenced at p. 6 of the Report.
25 26	IC-NLH-47	Have any of the expropriated assets referred to in the Report been acquired by Hydro or added to the rate base?
27 28 29 30	IC-NLH-48	If the energy referred to in IC-NLH-33 is being purchased, provide the details of the purchase agreement, including pricing, and particulars of any approval by the Public Utilities Board of such purchase arrangements.
31 32 33 34	IC-NLH-49	In light of the fact that the system is now capacity restrained as opposed to energy constrained, has Hydro revisited its marginal cost study and does it propose any changes in rate structure as a result?
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1 <u>DATED</u> at St. John's, this day of September, 2010.

2	POOLE ALTHOUSE
3	Per: Lout the
4	Joseph S. Hutchings, Q.C.
5	STEWART MCKELVEY
5 7	Per: Paul L. Coxworthy

TO: The Board of Commissioners of Public Utilities

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St. John's, NL A1A 5B2 Attention: Board Secretary

TO: Newfoundland & Labrador Hydro

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Attention: Geoffrey P. Young, Senior Legal Counsel

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