IN THE MATTER OF the
Public Utilities Act, RSNL 1990,
Chapter P-47 (the *Act*) as amended; and

IN THE MATTER OF an Application
by Newfoundland and Labrador Hydro
for an Order Approving:

(1) 2013 Capital Budget pursuant to Section 41 (1) of the *Act*;
(2) 2013 Capital Purchasers, and Construction Projects in excess of $50,000.00 pursuant to Section 41 (3) (a) of the *Act*;
(3) Its Leases in excess of $5,000.00 pursuant to Section 41 (3) (b) of the Act;
(4) Its estimate contributions in aid of construction for 2013 pursuant to Section 41 (5) of the *Act* and for an Order pursuant to Section 78 of the *Act* fixing and determining its average rate base for 2011.

Requests for Information by The Consumer Advocate

CA-NLH-01 to CA-NLH-141

August 29, 2012

CA-NLH-01 Re: 2013 Capital Projects Overview, page 13:
Please provide the complete rationale for including what is usually operating costs in the Capital Budget at this time.

CA-NLH-02 Re: 2013 Capital Projects Overview, page 13:
Further to the previous question, please provide any regulatory precedent in Canada for this proposed treatment.

CA-NLH-03 Re: 2013 Capital Projects Overview, Appendix "A" – 2013 Project Prioritization:
Please discuss whether and, if so, how the use of project prioritization represents an improvement to Hydro's capital budgeting process.

CA-NLH-04 Re: 2013 Capital Projects Overview, Appendix "A" – 2013 Project Prioritization: At p. A-4 it stated, "The total of the projects included is determined based on balancing unit load, overall budget, and logistical considerations." Please elaborate on how the "overall budget" is developed and taken into account in this process.

CA-NLH-05 Re: 2013 Capital Projects Overview, Appendix "A" – 2013 Project Prioritization: At page A5 to A12 Hydro details the criteria, factors, factor weights and background definition on the criteria. What sources or precedents did Hydro use to develop this material? If developed internally, explain the process used.

CA-NLH-06 Re: Capital Plan, p. 2:
Hydro states, "The service lives of Hydro's assets are currently under review by the Public Utilities Board and Hydro has assumed within this Application that those recommended service lives will be approved." How will this application be impacted if they are not all approved as requested by Hydro in the depreciation proceeding?

CA-NLH-07 Re: Capital Plan, p. 5:
What is the current status of the proposed addition of the upgrade of the transmission line corridor between Bay d'Espoir and Western Avalon?

CA-NLH-08 Re: Capital Plan, p. A3:
There is a dramatic increase in spending on capital forecasted for 2014 to 2017. What are the anticipated customer rate impacts of these increases?

CA-NLH-09 Re: 2013 Capital Plan, page 9/10 Rural Generation:
Hydro outlines the possibility of interconnection among the three systems may yet be advisable to optimise generation needs in the areas of Port Hope Simpson, Charlottetown and Mary's Harbour. Hydro further outlines it will continue studies for a long term solution to the electrical supply needs of this area. Explain why these proposed projects for the new diesel plans should be implemented prior to an investigation into whether interconnection is a legitimate option, and given that Hydro plans to submit a recommended solution by the end

of March, 2013, shouldn't these possibilities be explored first?

CA-NLH-10 Re: 2013 Capital Plan, page 22 Install Backup System for Raw Water Supply and Clarifier:
Has there been an update to the AON Reed Stenhouse Inc. report of 2007?

CA-NLH-11 Re: 2013 Capital Projects 500,000 and Over: Explanations, p. C-6 Install Variable Frequency Drives on Forced Draft Fans:
This project is stated at p. C-7 to "pay for itself within less than one year of being put into service in 2014." How and when was this project identified and why was this project not advanced previously?

CA-NLH-12 Does Hydro have any plan in place as regards the systematic identification of projects with favourable pay back periods?

CA-NLH-13 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-7 Install Variable Frequency Drives on Forced Draft Fans:
Hydro outlines the insulation of the VFDs onto the forced draft fan motors at Holyrood will yield significant energy and cost savings, an average annual fuel savings of 4.7 million while the Holyrood Plant is generating electricity. Are the VFDs on forced draft fan required if Holyrood is in synchronous condensing mode only, should the Muskrat Falls project be sanctioned? Will the fans be required after 2020?

CA-NLH-14 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-8 Upgrade Governor Controls on Units 1 and 2:
Other than the forced shutdowns, have there been any issues with the current Mark V turbine controller?

CA-NLH-15 Re: 2013 Capital Projects 500,000 and Over: p. C-8 Upgrade Governor controls on Units 1 and 2:
These were installed in 2003 and 1999 on Units 1 and 2 respectively. Are both entering the obsolete phase at the same time in 2014?

CA-NLH-16 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-8 Upgrade Governor Controls on Units 1 and 2:
What was the cause of communications card being locked up?

CA-NLH-17 Re: 2013 Capital Projects 500,000 and Over: p. C-10 Upgrade Gas Turbine Controls (Happy Valley):
What is the expect remaining life duration of the existing control system?

CA-NLH-18 Re: 2013 Capital Projects 500,000 and Over: p. C-16. Install Backup System for Raw Water Supply and Clarifier:
How long will the backup system be required?

CA-NLH-19 Re: 2013 Capital Projects 500,000 and Over: p. C-16. Install Backup System for Raw Water Supply and Clarifier:
Does Hydro know of other utilities using such back-up systems?

CA-NLH-20 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-20 Upgrade Vibration Monitoring Equipment:
When is it anticipated the Bently Nevada 3300 Turbine Supervisory Instrumentation system enter the obsolescence life cycle?

CA-NLH-21 Re: 2013 Capital Projects 500,000 and Over: p. C-20 Upgrade Vibration Monitoring Equipment (Holyrood):
When will the vendor cease to provide repair or exchange of components?

CA-NLH-22 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-22 Upgrade Fuel Oil Day Tank:
How long has the American Petroleum Institute standard 653 been in place?

CA-NLH-23 Re: 2013 Capital Projects 500,000 and Over: p. C-22 Upgrade Fuel Oil Day Tank (Holyrood):
Hydro states at p. C-22 that its condition is unknown. Given this, how does Hydro know what refurbishment will entail or cost?

CA-NLH-24 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-22 Upgrade Fuel Oil Day Tank:
Explain why Hydro has not undertaken any inspections, whether it being interior or exterior, since 1998 on the fuel oil day tank?

CA-NLH-25 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-29 Upgrade Distribution Systems:
Please provide the standardized inspection and testing procedures results indicating that the line components have remaining life spans of only one to five years.

CA-NLH-26 Re: 2013 Capital Projects 500,000 and Over: p. C-31 Provide Service Extensions (All Service Areas):
Table 3 at p. C-32 indicates that budget projections have been significantly off over the past several years whereby actuals significantly exceeded budget. What steps are being taken to address this issue in this and future filings?

CA-NLH-27 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-45 Perform Wood Pole Line Management Program:
What are the standards used by Hydro for its annual visual inspection?

CA-NLH-28 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-45 Perform Wood Pole Line Management Program:
What is the "rule of thumb" approach Hydro uses to identify the health of a typical pole?

CA-NLH-29 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-47/48 Replaced Compressed Air Systems:
Please provide maintenance logs for all noted issues with the Synflex Hose.

CA-NLH-30 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-47/48 Replaced Compressed Air Systems:
What was the rationale for placing the electrical cables on top of the original piping?

CA-NLH-31 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-50 Upgrade Terminal Station:
How long has the reliability performance and safety performance of the Wiltondale Thermal Station been considered sub-par?

CA-NLH-32 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-52 Upgrade Power Transformers:
What are the condition assessment techniques referred to by Hydro?

CA-NLH-33 Re: 2013 Capital Projects 500,000 and Over: p. C-56 Overhaul Diesel Units (Various Sites):
Are there reports which document Hydro's basis for extending the overhaul period to 20,000 hours? Please provide a copy.

CA-NLH-34 Re: 2013 Capital Projects 500,000 and Over: p. C-56 Overhaul Diesel Units (Various Sites):
Has Hydro taken any further studies or reviews since 2003 to determine if it can further extend the overhaul period?

CA-NLH-35 Re: 2013 Capital Projects 500,000 and Over: p. C-60 Replace Vehicles and Aerial Devices:
Has Hydro ever piloted a study of a portion of its fleet to determine whether its replacement criteria for vehicle age and kms may be extended?

CA-NLH-36 Re: 2013 Capital Projects 500,000 and Over: p. C-60 Replace Vehicles and Aerial Devices:
Is Hydro taking any steps in an effort to extend the life of its fleet?

CA-NLH-37 Re: 2013 Capital Projects 500,000 and Over: p. C-60 Replace Vehicles and Aerial Devices:
Please explain the reasons why Hydro is replacing Unit V1331 at 3.3 years with only 34,377 kms on it (projected). What year and type of vehicle is it, what was its cost and what will be replacing it?

CA-NLH-38 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-62/63 Replace MDR4000 Microwave Radio (West):
Hydro outlines that the current microwave radio (west) has been discontinued since 2004. Please provide all outages experienced on the current system since 2004.

CA-NLH-39 Re: 2013 Capital Projects 500,000 and Over: p. C-62 Replace MDR4000 Microwave Radio (West):
What was the anticipated life of this radio system when it was installed in 1999?

CA-NLH-40 Re: 2013 Capital Projects 500,000 and Over: p. C-62 Replace MDR4000 Microwave Radio (West):
What spare parts are presently in inventory and how were these obtained?

CA-NLH-41 Re: 2013 Capital Projects 500,000 and Over: p. C-62 Replace MDR4000 Microwave Radio (West):
What advices/notices has the manufacturer provided to Hydro concerning this equipment since 2003? Please provide a copy of each.

CA-NLH-42 Re: 2013 Capital Projects 500,000 and Over: Explanations, page C-69 Upgrade Business Intelligence Software:
Does Hydro have any experience with the new versions of software sought to be substituted for the current Essbase Web Analysis and clarity?

CA-NLH-43 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-2 through D-7 Install Cold-Reheat Condensate Drains and High-Pressure Heater Trip Level Unit 3:
Has there been any issues with the drain pots on Units One and Two since implementation?

CA-NLH-44 Re: Report of FM Global of May 12, 2011 at D-8 ff:
At p. D-11 the author states, "This engineer is highly impressed by the aggressive action plans in place to increase the reliability of the units and their

critical systems." Does Hydro believe that a continuation of aggressive action plans is appropriate and if so, has Hydro considered the incremental costs associated with that approach versus a less aggressive approach in relation to the Holyrood facility?

CA-NLH-45 Re: Report of FM Global of May 12, 2011 at D-8 ff:
Does the current filing represent a continued aggressive approach in relation to Holyrood?

CA-NLH-46 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-33
Upgrade Generator Bearings (Bay d'Espoir):
With reference to Table 2 at p. D-36, is there an acceptable or normal amount of oil additions due to leakage on an annual basis?

CA-NLH-47 Re: 2013 Capital Projects 200,000 and Over but less than 500,000:
Explanations, pages D-51 through D-55 Replace Automatic Transfer Switches:
Was the last failure of the automatic transfer switch in August of 2006 as referred to by Hydro on page D52?

CA-NLH-48 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-51
Replace Automatic Transfer Switches:
What repairs or steps were taken following each of the incidents referred to at the top of page D-52?

CA-NLH-49 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-51
Replace Automatic Transfer Switches: How much has been expended on repairs since the October 2005 incident?

CA-NLH-50 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-51
Replace Automatic Transfer Switches:
What is the basis for the statement at p. D-54 that the "automatic transfer switch has an estimated service life of 30 years"?

CA-NLH-51 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-56
Upgrade Public Safety Around Dams and Waterways:

Doesn't Hydro have a safety department that can carry out its own safety assessments of these sites?

CA-NLH-52 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-56 Upgrade Public Safety Around Dams and Waterways: At p. D-61 it states that the risk assessment done at Long Pond Reservoir "was the first in a series that Hydro will be conducting over the next several years. . ." How many is Hydro planning to carry out? Is it planning to do these itself or hire Hatch to do these?

CA-NLH-53 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-56 through D-62 Upgrade Public Safety Around Dams and Waterways:
Given that the dam owners are responsible for assessing and managing risks to the public, why are these costs not part of the operating expenses for Hydro?

CA-NLH-54 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-78 through D-83 Replace MicroSCADA Computers:
Does Hydro have systems in the Legacy Phase currently? If so, how long have these systems been in the Legacy Phase and please outline any maintenance and ongoing issues regarding these systems.

CA-NLH-55 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-116 through D-122 Replace Auto Greasing Systems Units 1 and 3:
Please provide the maintenance records and details of all failures associated with the Auto Grease system currently in place at Bay d'Espoir.

CA-NLH-56 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-123 through D-132 Replace Disconnects:
At page D-129, how does the vendor define an "operation"?

CA-NLH-57 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-123 through D-132 Replace Disconnects:

Does Hydro have data as to how many operations its current disconnect switches have had?

CA-NLH-58 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-136 through D-139 Replace Light-Duty Mobile Equipment:
What are the mobile equipment replacement guidelines referred to by Hydro at page D-137?

CA-NLH-59 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-136 Replace Light Duty-Mobile Equipment:
Please provide a copy of the guidelines that have been issued by or prepared by the Canadian Utility Fleet Council.

CA-NLH-60 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-142 through D-147 Replace Insulators:
Please provide the manufacturer's recommendations to replace older insulators manufactured before the mid 1970's.

CA-NLH-61 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-161 Install Online Vibration Monitoring System:
Has the vibration problem been resolved since the corrective work done by Siemens in December of 2010?

CA-NLH-62 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-161 Install Online Vibration Monitoring System:
At p. D-197, isn't the recommendation at the second bullet to monitor weekly? Spectrum is not expressly recommending that a permanent monitor be installed; they are merely pointing out that there are a number of ways to permanently monitor. Is this not the case?

CA-NLH-63 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-161 through D-167 Install Online Vibration Monitoring System:

How often are manual vibration checks completed by Hydro on an annual basis?

CA-NLH-64 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-161 through D-167 Install Online Vibration Monitoring System:
What is the cause of the imbalance found in Bearings 4, 5 and 6?

CA-NLH-65 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-210 through D-213 Install Additional Washrooms:
Hydro anticipates that the majority of its facilities will require a building extension. Has Hydro confirmed same at this time?

CA-NLH-66 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-210 Install Additional Washrooms (Various Sites):
At p. D-210 it states that there are approximately sixty Hydro facilities which require an additional washroom under this program, including all of Hydro's remote sites, terminal station control buildings, diesel generation plants, and hydroelectric plants. Please provide a list of all sites with brief description and location.

CA-NLH-67 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-210 Install Additional Washrooms (Various Sites):
What sites are planned for 2013?

CA-NLH-68 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-210 Install Additional Washrooms (Various Sites):
Has Hydro inquired with enforcement officials of the OHSA Regulations as regards allowances to employers which maintain facilities that are remote and infrequently visited by employees?

CA-NLH-69 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-210 Install Additional Washrooms (Various Sites):
Reference the consultations referred to at p. 213, please provide copies of all communications, memos, notes and minutes pertaining to the same.

CA-NLH-70 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-231 Front End Engineering Design (Hydro Place):
This project is to capitalize in 2013, Phase 1 – Front End Engineering design associated with the preparation of the 2014 capital budget submission. Is this all driven by IFRS? If not, why was it not proposed prior to now?

CA-NLH-71 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-231 Front End Engineering Design (Hydro Place):
Is it Hydro's position that IFRS's treatment of feed costs will cause Hydro to take more care and time in preparing capital budget submissions than it would otherwise?

CA-NLH-72 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-234 Replace Personal Computers:
Of the 229 personal computers to be replaced in 2013, how many are laptops and how many are desk tops?

CA-NLH-73 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-234 Replace Personal Computers:
What is the projected unit cost of a laptop and desk top respectively in 2013?

CA-NLH-74 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-234 Replace Personal Computers:
How is it determined who is assigned a laptop and who is assigned a desk top computer?

CA-NLH-75 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-234 Replace Personal Computers: What company is supplying the laptops and desk tops in 2012 and who did in each of 2011, 2010 and 2009?

CA-NLH-76 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-234 through D-238 Replace Personal Computers:
Hydro references "thin clients" on page D235. What are thin clients?

CA-NLH-77 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-239 Upgrade Server Technology Programs:
How did Hydro determine the maximum age for its servers at p. D-241?

CA-NLH-78 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-239 Upgrade Server Technology Programs:
Please provide a copy of IBM's recommendations referred to at p. D-242?

CA-NLH-79 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-239 Upgrade Server Technology Programs: What does the 5 year warranty cover that is referred to at p. D-243?

CA-NLH-80 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-239 Upgrade Server Technology Programs:
What does the Gold Card Maintenance program that is referred to at p. D-243 cover?

CA-NLH-81 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-239 Upgrade Server Technology Programs:
How many servers have failed in the each of the last five years? Please provide their age at failure.

CA-NLH-82 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-245 through D-254 Replace Radomes:
At page D-251, Hydro outlines that the winter storm of 1996 caused significant and sustained outage to the communications part of Hydro's communication network. Was this 1996 winter storm the only outage since 1996?

CA-NLH-83 Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, pages D-245 through D-254 Replace Radomes:
Please provide the inspection details of the radome.

CA-NLH-84 Re: 2013 Capital Projects 200,000 and Over but less than 500,000:

Explanations, pages D-245 through D-254 Replace Radomes:
Hydro outlines that radomes cannot be repaired but must be replaced when identified. Is there an acceptable amount of damage prior to a replacement being required?

CA-NLH-85 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-259 Replace Peripheral Infrastructure:
It states at p. D-259, "This is the continuation of the Peripheral Infrastructure Replacement Project to replace peripheral devices as they reach the end of their useful lives." How is it determined when a device has reached the end of its useful life? Does duration of useful life depend on the amount of use in addition to age?

CA-NLH-86 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-259 Replace Peripheral Infrastructure:
Does Hydro track and/or have a means of tracking the amount of use (eg. copies made) by device?

CA-NLH-87 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-259 Replace Peripheral Infrastructure:
Does Xerox's maximum lifespan recommendation of five years (at p. D-262) take into account level of use?

CA-NLH-88 Re: 2013 Capital Projects 200,000 and Over but less than 500,000:
Explanations, pages D-264 through D-267 Remove Safety Hazards:
Please provide the criteria for consideration under the Removal Safety Hazards category for funding to be approved.

CA-NLH-89 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-264 Remove Safety Hazards:
What projects have been done thus far in 2012 and what others are anticipated in 2012?

CA-NLH-90 Re: 2013 Capital Projects Over 200,000 but less than 500,000: p. D-264

Remove Safety Hazards:
How is it determined whether a project is a capital or operating item?

CA-NLH-91 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages D-2 through D-10 :
How long has Hydro not been in compliance with the storage and handling of gasoline and associated products regulations, 2003? Has Hydro sought any exemption relating to the frequency of dipping outlined in section 18(2)(a)? If not, why not?

CA-NLH-92 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):
How many more fuel tanks is Hydro planning to install such a monitoring system on?

CA-NLH-93 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):
How long has Hydro not been doing weekly dips?

CA-NLH-94 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):
What is the age of the tank at this site?

CA-NLH-95 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):
How many times did personel visit this site in 2011 for dips and other reasons?

CA-NLH-96 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):
Please provide a copy of QMI-SAI Global's last report in reference to these issues.

CA-NLH-97 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):

Will labour cost decrease in the operating budget by reason of this new monitoring device? If so, by how much per year. Please explain. If labour requirements will not be reduced, please explain the basis of the cost benefit shown in E-8.

CA-NLH-98 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages E-26 through E-30 Replace By-Pass Valves Units 3 and 4:
How long has Hydro been aware of water developing in the motorized valve of Unit 4 at Bay d'Espoir?

CA-NLH-99 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages E-41 through E-44 Purchase Low Pressure Screw Compressor Set:
How often is low pressure required for breaks, pumps and general service?

CA-NLH-100 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-41 Purchase Low Pressure Screw Compressor Set:
Please fully explain how Table 3: Cost Benefit Analysis was determined showing all assumptions and calculations.

CA-NLH-101 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):
Please provide a copy of the contract between Newfoundland and Labrador Hydro and Newfoundland Power referenced at p. E-74.

CA-NLH-102 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-2 Install Automated Fuel Monitoring System (Upper Salmon):
What is the anticipated life remaining of the existing 10 position console?

CA-NLH-103 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages E-113 through E-117 Legal Survey of Primary Distribution Line Right Of Way:
What is the status of the application submitted to Crowns Lands referred to at page E-115?

CA-NLH-104 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-113 Legal Survey of Primary Distribution Line Right of Way:
The evidence at page E-155 indicates that Hydro has had difficulties with the use of outside consultants on this project, whether it be the need for edits and corrections or cost. Has Hydro examined whether the remaining 1,385 kms of distribution lines that remain to be surveyed could be done more quickly and at less cost if in-house surveyors were dedicated to this work or a surveyor(s) was hired to complete this task.

CA-NLH-105 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages E-113 through E-117 Legal Survey of Primary Distribution Line Right Of Way:
At page E-116, Hydro outlines part of its concern in obtaining the surveys is to "obtain easements over crown land to prevent parties from getting title to the land thereby potentially complicating maintenance of the lines". Is Hydro aware of any other parties attempting to obtain crown land vicinity of Hydro's lines?

CA-NLH-106 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages E-129 through E-132 Replace 230 kV Breaker Controls:
How long have the breakers that Hydro is seeking to replace at Bottom Brook been discontinued?

CA-NLH-107 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages E-135 through E-137 Replace Telephone System:
Has Hydro sourced any other systems for their costs or have they only sourced Avaya Private Branch Exchange?

CA-NLH-108 Re: 2013 Capital Projects 50,000 and Over but less than 200,000: Explanations, pages E-143 to E-144 Replace Computer Room Air Conditioner:
At Appendix A, Newfoundland and Labrador Hydro Energy Health Check Report, at page E-146, there is note made of no vapour barriers installed in the walls of the computer room. Is this the case, and if so does this affect the air conditioning for the area?

CA-NLH-109 Re: 2013 Capital Projects Over 50,000 but less than 200,000: p. E-151
Replace Helpdesk Service Manager Application:
It states at p. E-151 that the application is used to record service requests for approximately 1,200 employees. Please provide a breakdown of that number by regulated and non-regulated employees and explain the appropriateness of the cost recovery being based on a 36% ratio.

CA-NLH-110 Re: 2013 Capital Budget: 2012 Capital Expenditures Explanations :
At page J-14, Hydro outlines the increased cost for the replaced compressed air system at Bay d'Espoir and the Upgrade Distribution Systems for Francois, Rigolet and Happy Valley. Can Hydro explain why its initial estimates were much less than the actual cost?

CA-NLH-111 Re: Replacement of Stator Windings, Tab 1:
At page 6, Hydro outlines that with the removal of Unit 2 the laminations were discovered to have shifted and were moving out of alignment. Has Hydro identified a cause for the misalignment of Unit 2?

CA-NLH-112 Re: Replacement of Stator Windings, Tab 1:
Other than age, does Hydro have any reason to suspect that Unit 1 would have similar alignment issues?

CA-NLH-113 Re: Replacement of Stator Windings, Tab 1:
Was asbestos found in Units 2 or 4? Is asbestos abatement, if required, a cost included in this application?

CA-NLH-114 Re: Upgrade Governor Controls, Unit 1 and 2, Holyrood, Tab 3:
What is the system of control used on Unit 3? What stage is the Unit 3 system in?

CA-NLH-115 Re: Upgrade Governor Controls, Unit 1 and 2, Holyrood, Tab 3:
Have there been any issues with any of the controls for Unit 1 and 2 over the last five years?

CA-NLH-116 Re: Upgrade Gas Turbine Control and Monitoring System, Tab 4:
Hydro outlines that the last end date was in 2006 for the last cards that were supported. Since that time, have there been any issues with the current system?

CA-NLH-117 Re: Upgrade Gas Turbine Control and Monitoring System, Tab 4:
Please provide a maintenance record and incident log for the Happy Valley Gas Turbine Control System for the last five years.

CA-NLH-118 Re: Unit 3 Turbine Valves Overhaul, Tab 6:
When was the last overhaul prior to 2010?

CA-NLH-119 Re: Unit 3 Turbine Valves Overhaul, Tab 6:
Were there any issues or concerns raised in the overhaul prior to 2010?

CA-NLH-120 Re: Unit 3 Turbine Valves Overhaul, Tab 6:
At Appendix A, Unit 3 Valve Inspection printed October 11, 2010, at page 87, it is noted that there was a heavy amount of corrosion from the pressure side gland to both the vacuum gland and the vertical joint where the packing case meets the LB Hood. Has the cause of the corrosion noted been determined, and does Hydro have any means of preventing same in the future?

CA-NLH-121 Re: Installed Backup System for Raw Water Supply and Clarifier, Tab 7:
Hydro outlines in Section 3.2.5, Industry Experience, page 8, that it has not sought any industry experience in relation to the backup system for the raw water supply and clarifier. Why not?

CA-NLH-122 Re: Upgrade Burnt Dam Spillway, Bay d'Espoir, Tab 8:
With the system in place, Hydro has outlined an instance where the fuse plug was nearly triggered. Has the fuse plug ever been triggered?

CA-NLH-123 Re: Upgrade Burnt Dam Spillway, Bay d'Espoir, Tab 8:
Has the spilling in extreme floods, which Hydro estimates to be a 1 in 10,000

year occurrence, been factored into the Hatch Analysis?

CA-NLH-124 Re: Upgrade Burnt Dam Spillway, Bay d'Espoir, Tab 8:
What was the cause of the 2006 incident whereby the gates at Burnt Spillway failed to operate when required?

CA-NLH-125 Re: Upgrade Burnt Dam Spillway, Bay d'Espoir, Tab 8:
Please detail the problems related to the reliability of the diesel generators that supply power to the hydraulic structure as outlined by Hydro on page 9.

CA-NLH-126 Re: Upgrade Burnt Dam Spillway, Bay d'Espoir, Tab 8:
Hatch, at page A20 outlines that the starter for Gate 1 is significantly oversized for the hoist motors. Why is this the case? Have the precautions Hatch outlines as required to ensure properly sized fuses and overloads are installed been undertaken?

CA-NLH-127 Re: Upgrade Unit Vibration Monitoring System, Tab 9:
Please outline any maintenance issues or failures in the last five years as it relates to the dual channel temperature and ramp differential monitors at the Holyrood plant?

CA-NLH-128 Re: Upgrade Unit Vibration Monitoring System, Tab 9:
Why is reliability performance not relevant in this proposal?

CA-NLH-129 Re: Upgrade Unit Vibration Monitoring System, Tab 9:
Does Hydro have a timeline or anticipated date for the complete cost and detailed estimate it requested to the alternate turbine supervisory instrumentation system supplier?

CA-NLH-130 Re: Upgrade Fuel Oil Day Tank for Holyrood, Tab 10:
When was the last inspection prior to 1998?

CA-NLH-131 Re: Upgrade Fuel Oil Day Tank for Holyrood, Tab 10:
Were there any issues at the time of that inspection?

CA-NLH-132 Re: Automate Generator Deluge Systems, Unit 5 and 6, Bay d'Espoir, Tab 11:
Does Hydro complete drills and/or employee training as it relates to the manual system currently in place?

CA-NLH-133 Re: Additions to Accommodate Load Growth – Distribution Systems, Tab 15:
What were the causes of the outages set out in Table 6 found at page 22?

CA-NLH-134 Re: Replaced Compressed Air Systems, Tab 18:
How old is the air compressed system for these breakers?

CA-NLH-135 Re: Replaced Compressed Air Systems, Tab 18:
Did Hydro consult with the manufacture ABB prior to using Synflex Hose?

CA-NLH-136 Re: Replaced Compressed Air Systems, Tab 18:
Did Hydro consult Doble Engineering or any other utility providers prior to using the Synflex Hose?

CA-NLH-137 Re: Replaced Compressed Air Systems, Tab 18:
What is the schedule basis used by Hydro for preventative maintenance on the compressors and air dryers?

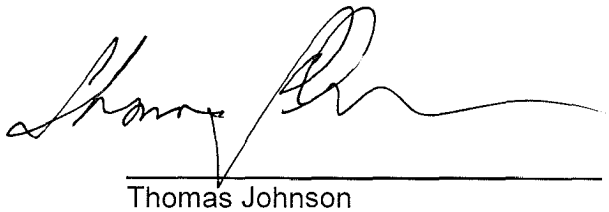
CA-NLH-138 Re: Upgrade Terminal Station – Wiltondale:
How long has the grounding system in the Wiltondale Terminal Station been substandard compared to Hydro's terminal engineering standards?

CA-NLH-139 Re: Upgrade Power Transformers – Various Sites, Tab 20:
How often does Hydro use its condition assessment tool to evaluate the oil quality parameters on its units?

CA-NLH-140 Re: Upgrade Power Transformers – Various Sites, Tab 20:
Is Hydro aware of any utilities across Canada that use the proposed system put forth by Hydro for upgrading power transformers?

CA-NLH-141 Re: Upgrade Power Transformers – Various Sites, Tab 20:
What are the differences between the vendor's recommendations for condition assessment techniques and Hydro's proposed plan?

Dated at St. John's in the Province of Newfoundland and Labrador, this 29th day of August, 2012.



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