

**IN THE MATTER OF** the *Electrical Power Control Act*, SNL 1994, Chapter E-5.1 (the “*EPCA*”) and the *Public Utilities Act* RSNL 1990, Chapter P-47 (the “*Act*”) as amended; and their subordinate regulations; and

**IN THE MATTER OF** an application by Newfoundland and Labrador Hydro, pursuant to Sections 41(3) of the *Act*, for the approval to upgrade Unit 1 stack breeching facility and to upgrade the fuel oil storage facility at the Holyrood Thermal Generating Station.

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**PUBLIC UTILITIES BOARD**  
**REQUESTS FOR INFORMATION**  
**PUB NLH 1 to PUB NLH 20**  
**Issued: August 12, 2011**

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1 **Upgrade Unit 1 Stack Breeching**

2 In evaluating Alternative 3 the annual O&M cost was estimated to be \$49,391, using the average  
3 of the 11-year maintenance history of the Unit 1 stack breeching as shown in Table 1, page 9 of  
4 the report: "Upgrade Unit 1 Stack Breeching, Holyrood Thermal Generating Station, July 2011".

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6 **PUB NLH 1**

7  
8 Included in the maintenance history, for 2006, is a total maintenance cost of \$321,000. Please  
9 provide a breakdown of the costs included in this figure.

10  
11 **PUB NLH 2**

12  
13 Why would this total maintenance figure for 2006, which appears to be inconsistent with normal  
14 maintenance costs on the Unit 1 Stack Breeching, not be considered an outlier in calculating the  
15 average annual cost of maintenance on this unit?

16  
17 **PUB NLH 3**

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19 Please calculate, over the same 11-year period, the average annual cost for maintenance of the  
20 Unit 1 Stack Breeching to exclude anything other than normal maintenance costs for 2006.

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22 **PUB NLH 4**

23  
24 Please re-calculate the CPW of Alternatives 1, 3 and 7 using the re-calculated average annual  
25 cost from Request for Information PUB NLH 3.

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27 **PUB NLH 5**

28  
29 Please revise Table 2: Cost Benefit Analysis, shown on page 21 of the report, to show the CPW  
30 of Alternatives 1, 3 and 7 using the response to Request for Information PUB NLH 4.

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32 **PUB NLH 6**

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34 Please provide a breakdown of the costs included in each of the alternatives included in Table 2,  
35 page 21, of the report, including Alternatives 1, 3 and 7 from the original table and also including  
36 the re-calculated Alternatives 1, 3 and 7 found in the revised table filed in response to Request  
37 for Information PUB NLH 5.

38  
39 **PUB NLH 7**

40  
41 In Alternatives 2 and 6 NLH estimates the O&M to be \$4,000 per year. Please provide details of  
42 what factors are included in this estimate and how the total is determined?

43  
44 **PUB NLH 8**

45  
46 In Alternatives 4 and 5 NLH estimates the O&M to be \$2,000 per year. Please provide details of  
47 what factors are included in this estimate and how the total is determined?

1 **Refurbishment of the Fuel Oil Storage Facility, Holyrood Thermal Generating Station**

2 On pages 8 to 11 of the report: “Refurbishment of the Fuel Oil Storage Facility, Holyrood  
3 Thermal Generating Station, July 2011” NLH provides Figures 1 to 4 that illustrate Holyrood  
4 Fuel Storage Levels from 2002 to 2005, “when production levels were similar to the forecast for  
5 2015 to 2016”.

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7 **PUB NLH 9**

8  
9 Since 2015 and 2016 appear, at this point, from a planning perspective, to be the critical years,  
10 why would it not be possible for NLH to delay the refurbishment of Tank #3 for one to two  
11 years, until there is greater certainty regarding the future of the Holyrood Thermal Generating  
12 Station?

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14 **PUB NLH 10**

15  
16 Over the period from 1990 to 2010, in which years has there been a concern with regard to  
17 tanker traffic as a result of icing blocking the bay?

18  
19 **PUB NLH 11**

20  
21 Over the period from 1990 to 2010, on how many occasions, and for what periods of time, has  
22 tanker supply actually been interrupted as a result of the blockage of Conception Bay by ice?

23  
24 **PUB NLH 12**

25  
26 In each of the graphs provided in Figures 1 to 4 of the report, there is at least one period that  
27 exceeds three weeks before the replenishment of the storage level of the three tank capability  
28 occurs. What are the drivers, including ice, of these delays?

29  
30 **PUB NLH 13**

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32 Please provide an explanation of the current system of supply of No. 6 fuel that explains how the  
33 order is placed, how the deliveries are scheduled, and how the price is determined.

34  
35 **PUB NLH 14**

36  
37 If the availability of No. 6 fuel were the only factor to be considered over the next two-year  
38 period, would it be possible to place orders, schedule deliveries, or change quantities delivered  
39 so that the necessary levels can be maintained without the use of Tank #3? Why or why not?

40  
41 **PUB NLH 15**

42  
43 If changes, as required, could be made to the timing or quantity of deliveries, what factors, other  
44 than the availability of fuel, would be impacted, and in what way?

1 **PUB NLH 16**

2

3 Please provide charts, similar to those provided in Figures 1 to 4, showing the effect of two tank  
4 storage on fuel supply.

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6 **PUB NLH 17**

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8 In Appendix A of the report, page 10 of 248, AITEC recommends, in November 2003, that NLH  
9 do a 5-year external inspection of Tank #3 in 2008. Was an external inspection of Tank #3  
10 undertaken in 2008 or at a later date?

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12 **PUB NLH 18**

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14 If an external inspection of Tank #3 was undertaken during or after 2008, please provide a  
15 summary of the report. If not, please provide the reasons why not.

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17 **PUB NLH 19**

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19 In Appendix A of the report, page 10 of 248, AITEC recommends that NLH “Open the tank in  
20 six (6)years, clean the tank and establish a short-term corrosion rate, and if necessary do a  
21 complete floor scan and a full API inspection, or at least establish when a full internal is to be  
22 done.” What action has NLH taken as a result of this recommendation?

23

24 **PUB NLH 20**

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26 If NLH has opened and inspected the tank during or after 2009, please provide a summary of the  
27 report. If not, please provide the reasons why not.

**DATED** at St. John’s, Newfoundland this 12<sup>th</sup> day of August 2011.

**BOARD OF COMMISSIONERS OF PUBLIC UTILITIES**

*Original signed by*

*Per* \_\_\_\_\_  
Cheryl Blundon  
Board Secretary