

1    Q.    **Reference: Response to Request for Information NP-NLH-006.**

2              Please update the analysis provided in the response to Request for Information NP-NLH-006 to  
3              include the operation of all of the components of Hydro's proposed deferral account. The  
4              analysis should demonstrate that the overall effect on Hydro's net income is the same under  
5              both the existing and proposed scenarios. Please explain any differences.

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8    A.    To demonstrate the overall effect on Newfoundland and Labrador Hydro's ("Hydro") net income  
9              under both the existing and proposed scenarios requires a comparison of an illustrative  
10             December month energy sales and supply costs for 2021 compared to the 2019 Test Year for the  
11             Island Interconnected System. The net income impact for both scenarios was estimated by  
12             calculating the margin for both scenarios after the deferral account activity.

13              The following assumptions were made to provide a comparison of the net income impact:

- 14              ● Under the existing deferral accounts Muskrat Falls Project costs, net revenue from  
15              exports, transmission tariff revenue and greenhouse gas credits are not included in the  
16              current definitions. These costs and revenues were not included in the existing scenario,  
17              but to provide the comparison energy delivered from Muskrat Falls was included in the  
18              calculation of the Revised Energy Supply Cost Variance to capture the fuel effects (no  
19              power purchase costs included).
- 20              ● The thresholds of +/- \$500,000 in a calendar year, applicable under both the current and  
21              existing deferral accounts, are not included.
- 22              ● Holyrood Conversion Rate Deferral Account activity was not calculated since the  
23              Holyrood Thermal Generating Station is no longer required to supply generation upon  
24              commissioning of the Muskrat Falls Project. The difference in the test year fuel costs  
25              and actual costs for the month will be credited to the Supply Cost Variance Deferral  
26              Account.

- 1           ● Transmission energy losses are assumed to equal the test year forecast under the  
 2           existing scenario. The variance in transmission energy losses from the test year forecast  
 3           under the existing scenario impacts net income<sup>1</sup> (valued at the test year cost of fuel).  
 4           Transmission energy losses on the Island Interconnected System will change materially  
 5           post-commissioning as a result of the delivery of the Nova Scotia Block and the  
 6           exporting of excess energy for the Muskrat Falls Corporation. The variance from test  
 7           year forecast transmission losses under the proposed scenario impacts the energy  
 8           available for exports (i.e., impacts net revenues from exports).

9           A summary of the results are provided in Table 1 and detailed entries are provided in NP-NLH-  
 10          021, Attachment 1.

**Table 1: Margin Impact Example**

	2019 TY	Actual	Deferral	Actuals	
			Account Activity	(Incl. Deferral Acct. Activity)	Margin Impact
<b>Existing Supply Deferral Accounts</b>					
Revenue	71,717,104	66,458,686	5,251,395	71,710,081	(7,023)
Supply Cost	37,183,056	11,833,315	25,575,220	37,408,534	225,478
Margin	34,534,048	54,625,371	(20,323,825)	34,301,547	(232,501)
<b>Proposed Supply Cost Variance</b>					
<b>Deferral Account</b>					
Revenue	71,717,104	70,371,686	1,160,984	71,532,670	(184,434)
Supply Cost	37,183,056	79,336,372	(42,143,269)	37,193,103	10,046
Margin	34,534,048	(8,964,686)	43,304,253	34,339,567	(194,480)

11          The Existing Supply Deferral Accounts result in a reduction in sales margin of \$232,501  
 12          compared to the test year compared to a reduction of \$194,480 in sales margin under the  
 13          proposed Supply Cost Variance Deferral Account. The difference of \$38,021 is primarily due to  
 14          the inclusion of the load variation for the Hydro Rural interconnected sales variance in the  
 15          proposed Supply Cost Variance Deferral Account.

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<sup>1</sup> A variance of 1% from test year transmission losses impacts net income by approximately ±\$31,000 per month.

Existing Supply Deferral Accounts Margin Impact Example									
	Revenue	2019 TY			Revised Energy Supply Cost Variance Account			Rate Stabilization Plan Activity	
		Actual	Variance	Holyrood Deferral	Conversion Rate Variation	Hydraulic Production Variation	No. 6 Fuel Variation	Load Variation	(incl. Deferral Acct. Activity)
<b>Newfoundland Power</b>									
Demand	6,318,445	6,255,260	(63,185)						6,255,260 (63,185)
Firm Energy	56,177,665	51,036,970	(5,140,695)						56,177,665 -
Secondary Energy		-	-						-
<b>Industrials</b>									
Demand	1,035,445	914,196	(121,249)						914,196 (121,249)
Energy	2,825,064	2,714,364	(110,700)						2,825,064 -
Specifically Assigned	26,511	26,511	-						26,511 -
<b>Rural</b>									
	5,333,974	5,511,385	177,411						5,511,385 177,411
	<u>71,717,104</u>	<u>66,458,686</u>	<u>(5,258,418)</u>						<u>71,710,081</u> (7,023)
<b>Supply Costs</b>									
<b>Island Thermal</b>									
Holyrood Combustion Turbine	851,255	318,385	(532,870)						851,255 -
Hardwoods Gas Turbine	179,920	7,602	(172,318)						179,920 -
Stephenville Gas Turbine	84,827	9,103	(75,724)						84,827 -
St. Anthony Diesel Plant	-	19,489	19,489						-
Hawkes Bay Diesel Plant	-	12,596	12,596						-12,596 -
Holyrood Diesels	3,203	10,470	7,267						10,470 7,267
	<u>1,119,205</u>	<u>377,645</u>	<u>(741,560)</u>						<u>1,126,472</u> 7,267
<b>On- Island Power Purchases (\$)</b>									
Nalcor Exploits	2,187,360	2,115,820	(71,540)						2,187,360 -
Star Lake	473,779	468,000	(5,779)						473,779 -
Rattle Brook	114,868	111,636	(3,232)						115,976 1,108
CBPP Cogeneration	1,177,500	941,228	(236,272)						1,179,742 2,242
St. Lawrence Wind	778,316	674,029	(104,287)						782,952 4,636
Fermeuse Wind	673,188	773,999	100,811						671,108 (2,080)
CBPP Curtailable Load	498,750	498,750	-						498,750 -
Vale - Capacity Assistance Diesel	53,200	53,200	-						53,200 -
Vale Curtailable Load	42,000	-	(42,000)						(42,000) -
New World Dairies	-	38,873	38,873						38,873 38,873
Island Wheeling Charges	64,088	64,088	-						64,088 -
	<u>6,063,049</u>	<u>5,739,624</u>	<u>(323,426)</u>						<u>6,065,829</u> 2,779
<b>Off-Island Power Purchases</b>									
Maritime Link	2,052,451	-	(2,052,451)						2,052,451 -
LIL (incl pre-comm)	112,324	-	(112,324)						112,324 -
	<u>2,164,775</u>	<u>-</u>	<u>(2,164,775)</u>						<u>2,164,775</u> -
<b>Holyrood Thermal Generation Costs</b>									
Bunker C	27,836,027	5,716,046	(22,119,981)						28,051,459 215,432
	<u>2,052,451</u>	<u>-</u>	<u>(2,052,451)</u>						<u>2,052,451</u> -
	<u>112,324</u>	<u>-</u>	<u>(112,324)</u>						<u>112,324</u> -
	<u>2,164,775</u>	<u>-</u>	<u>(2,164,775)</u>						<u>2,164,775</u> -
<b>Margin</b>	<u>37,183,056</u>	<u>11,833,315</u>	<u>(25,349,741)</u>						<u>37,408,534</u> 225,478
	<u>54,625,371</u>	<u>20,091,323</u>	<u>(16,045,109)</u>						<u>54,301,547</u> (232,501)

## Proposed Supply Cost Variance Deferral Account Margin Impact Example