

1 Q. Please provide Hydro's current monthly forecast of demand and energy for the
2 September 2013 through December 2017 time frame (include actuals when
3 available) for NP, each industrial customer and the IC class as a whole, and show
4 forecast balances in the load variation component of the RSP for NP and the IC class
5 at the end of each month based on the current allocation methodology, and
6 alternatively, on the methodology proposed in the 2013 GRA; i.e. on basis of load
7 ratio share.

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10 A. Please see Attachments 1 to 3 to this response. Attachment 1 is the Utility load
11 variation under the current allocation methodology. Attachment 2 is the IC load
12 variation under the current allocation methodology. Attachment 3 is the Utility and
13 IC load variation under the methodology proposed in the 2013 GRA.

14
15 Please note the following:

- 16 1) The energy sales forecast used in the response is consistent with that filed
17 in the 2013 GRA;
18 2) The calculations reflect 2007 Test Year variables;
19 3) The demand forecast does not impact the load variation component so
20 the demand data is excluded; and
21 4) IC data has been provided in aggregate for confidentiality purposes.

Newfoundland and Labrador Hydro
Rate Stabilization Plan
Utility Load Variation - Current Allocation Methodology
September 2013 to December 2017

	A	B	C	D	E	F
	Firm Energy					
	Cost of Service Sales (kWh)	Actual/ Forecast Sales (kWh)	Sales Variance (kWh) (B - A)	Cost of Service No. 6 Fuel Cost (\$/Can/bbl.)	Firm Energy Rate (\$/kWh)	Load Variation (\$) C x {(D/O') - E}
2013						
September	297,700,000	293,845,194	(3,854,806)	54.49	0.08805	6,006
October	360,200,000	405,323,940	45,123,940	54.56	0.08805	(65,286)
November	439,300,000	498,223,042	58,923,042	54.56	0.08805	(85,251)
December	543,800,000	711,965,166	168,165,166	58.98	0.08805	936,520
	<u>1,641,000,000</u>	<u>1,909,357,342</u>	<u>268,357,342</u>			<u>791,989</u>
2014						
January	574,800,000	701,800,000	127,000,000	54.17	0.08805	(262,366)
February	518,600,000	668,100,000	149,500,000	54.73	0.08805	(175,959)
March	524,700,000	704,200,000	179,500,000	55.46	0.08805	(3,277)
April	429,200,000	543,000,000	113,800,000	55.46	0.08805	(2,077)
May	358,700,000	458,100,000	99,400,000	55.46	0.08805	(1,814)
June	298,400,000	352,300,000	53,900,000	54.49	0.08805	(83,973)
July	293,400,000	317,300,000	23,900,000	54.49	0.08805	(37,235)
August	287,000,000	320,500,000	33,500,000	54.49	0.08805	(52,191)
September	297,700,000	318,500,000	20,800,000	54.49	0.08805	(32,405)
October	360,200,000	411,200,000	51,000,000	54.56	0.08805	(73,788)
November	439,300,000	498,600,000	59,300,000	54.56	0.08805	(85,797)
December	543,800,000	648,300,000	104,500,000	58.98	0.08805	581,965
	<u>4,925,800,000</u>	<u>5,941,900,000</u>	<u>1,016,100,000</u>			<u>(228,917)</u>
2015						
January	574,800,000	709,100,000	134,300,000	54.17	0.08805	(277,447)
February	518,600,000	642,000,000	123,400,000	54.73	0.08805	(145,240)
March	524,700,000	640,000,000	115,300,000	55.46	0.08805	(2,105)
April	429,200,000	490,900,000	61,700,000	55.46	0.08805	(1,126)
May	358,700,000	416,500,000	57,800,000	55.46	0.08805	(1,055)
June	298,400,000	354,400,000	56,000,000	54.49	0.08805	(87,244)
July	293,400,000	320,800,000	27,400,000	54.49	0.08805	(42,687)
August	287,000,000	323,700,000	36,700,000	54.49	0.08805	(57,176)
September	297,700,000	324,900,000	27,200,000	54.49	0.08805	(42,376)
October	360,200,000	416,500,000	56,300,000	54.56	0.08805	(81,456)
November	439,300,000	503,700,000	64,400,000	54.56	0.08805	(93,176)
December	543,800,000	650,000,000	106,200,000	58.98	0.08805	591,433
	<u>4,925,800,000</u>	<u>5,792,500,000</u>	<u>866,700,000</u>			<u>(239,655)</u>

Newfoundland and Labrador Hydro
Rate Stabilization Plan
Utility Load Variation - Current Allocation Methodology
September 2013 to December 2017

	A	B	C	D	E	F
	Firm Energy					
	Cost of Service Sales	Actual/ Forecast Sales	Sales Variance	Cost of Service No. 6 Fuel Cost	Firm Energy Rate	Load Variation
	(kWh)	(kWh)	(kWh)	(\$Can/bbl.)	(\$/kWh)	(\$)
			(B - A)			$C \times \{(D/O') - E\}$
2016						
January	574,800,000	715,500,000	140,700,000	54.17	0.08805	(290,668)
February	518,600,000	672,900,000	154,300,000	54.73	0.08805	(181,609)
March	524,700,000	645,900,000	121,200,000	55.46	0.08805	(2,212)
April	429,200,000	496,800,000	67,600,000	55.46	0.08805	(1,234)
May	358,700,000	419,500,000	60,800,000	55.46	0.08805	(1,110)
June	298,400,000	356,000,000	57,600,000	54.49	0.08805	(89,737)
July	293,400,000	320,100,000	26,700,000	54.49	0.08805	(41,597)
August	287,000,000	327,800,000	40,800,000	54.49	0.08805	(63,564)
September	297,700,000	323,500,000	25,800,000	54.49	0.08805	(40,195)
October	360,200,000	416,500,000	56,300,000	54.56	0.08805	(81,456)
November	439,300,000	508,900,000	69,600,000	54.56	0.08805	(100,699)
December	543,800,000	655,000,000	111,200,000	58.98	0.08805	619,278
	4,925,800,000	5,858,400,000	932,600,000			(274,803)
2017						
January	574,800,000	723,700,000	148,900,000	54.17	0.08805	(307,608)
February	518,600,000	654,500,000	135,900,000	54.73	0.08805	(159,952)
March	524,700,000	649,600,000	124,900,000	55.46	0.08805	(2,280)
April	429,200,000	501,800,000	72,600,000	55.46	0.08805	(1,325)
May	358,700,000	420,600,000	61,900,000	55.46	0.08805	(1,130)
June	298,400,000	357,000,000	58,600,000	54.49	0.08805	(91,295)
July	293,400,000	322,200,000	28,800,000	54.49	0.08805	(44,869)
August	287,000,000	327,600,000	40,600,000	54.49	0.08805	(63,252)
September	297,700,000	322,500,000	24,800,000	54.49	0.08805	(38,637)
October	360,200,000	415,700,000	55,500,000	54.56	0.08805	(80,299)
November	439,300,000	507,100,000	67,800,000	54.56	0.08805	(98,095)
December	543,800,000	659,100,000	115,300,000	58.98	0.08805	642,111
	4,925,800,000	5,861,400,000	935,600,000			(246,631)

(1) O is the Holyrood Operating Efficiency of 630 kWh/barrel.

Newfoundland and Labrador Hydro
Rate Stabilization Plan
Industrial Customer Load Variation - Current Allocation Methodology
September 2013 to December 2017

	A	B	C	D	E	F
	Cost of Service Sales	Actual/ Forecast Sales	Sales Variance	Cost of Service No. 6 Fuel Cost	Firm Energy Rate	Load Variation
	(kWh)	(kWh)	(kWh)	(\$)	(\$/kWh)	(\$)
			(B - A)			$C \times \{(D/O^1) - E\}$
2013						
September	73,000,000	28,595,423	(44,404,577)	54.49	0.03676	(2,208,331)
October	74,400,000	24,799,284	(49,600,716)	54.56	0.03676	(2,472,257)
November	74,100,000	33,552,362	(40,547,638)	54.56	0.03676	(2,021,023)
December	72,700,000	33,886,909	(38,813,091)	58.98	0.03676	(2,206,875)
	<u>294,200,000</u>	<u>120,833,978</u>	<u>(173,366,022)</u>			<u>(8,908,486)</u>
2014						
January	78,300,000	28,900,000	(49,400,000)	54.17	0.03676	(2,431,672)
February	70,900,000	31,700,000	(39,200,000)	54.73	0.03676	(1,964,430)
March	76,600,000	33,500,000	(43,100,000)	55.46	0.03676	(2,209,812)
April	75,600,000	31,100,000	(44,500,000)	55.46	0.03676	(2,281,593)
May	69,500,000	32,000,000	(37,500,000)	55.46	0.03676	(1,922,690)
June	73,800,000	45,300,000	(28,500,000)	54.49	0.03676	(1,417,364)
July	77,500,000	53,200,000	(24,300,000)	54.49	0.03676	(1,208,489)
August	77,900,000	53,200,000	(24,700,000)	54.49	0.03676	(1,228,382)
September	73,000,000	58,600,000	(14,400,000)	54.49	0.03676	(716,142)
October	74,400,000	60,500,000	(13,900,000)	54.56	0.03676	(692,820)
November	74,100,000	58,600,000	(15,500,000)	54.56	0.03676	(772,569)
December	72,700,000	60,500,000	(12,200,000)	58.98	0.03676	(693,680)
	<u>894,300,000</u>	<u>547,100,000</u>	<u>(347,200,000)</u>			<u>(17,539,643)</u>
2015						
January	78,300,000	63,300,000	(15,000,000)	54.17	0.03676	(738,362)
February	70,900,000	57,700,000	(13,200,000)	54.73	0.03676	(661,492)
March	76,600,000	67,000,000	(9,600,000)	55.46	0.03676	(492,209)
April	75,600,000	60,300,000	(15,300,000)	55.46	0.03676	(784,458)
May	69,500,000	63,200,000	(6,300,000)	55.46	0.03676	(323,012)
June	73,800,000	61,300,000	(12,500,000)	54.49	0.03676	(621,651)
July	77,500,000	67,500,000	(10,000,000)	54.49	0.03676	(497,321)
August	77,900,000	67,500,000	(10,400,000)	54.49	0.03676	(517,213)
September	73,000,000	49,400,000	(23,600,000)	54.49	0.03676	(1,173,677)
October	74,400,000	71,200,000	(3,200,000)	54.56	0.03676	(159,498)
November	74,100,000	69,700,000	(4,400,000)	54.56	0.03676	(219,310)
December	72,700,000	74,200,000	1,500,000	58.98	0.03676	85,289
	<u>894,300,000</u>	<u>772,300,000</u>	<u>(122,000,000)</u>			<u>(6,102,914)</u>

Newfoundland and Labrador Hydro
Rate Stabilization Plan
Industrial Customer Load Variation - Current Allocation Methodology
September 2013 to December 2017

	A	B	C	D	E	F
	Cost of Service Sales	Actual/ Forecast Sales	Sales Variance	Cost of Service No. 6 Fuel Cost	Firm Energy Rate	Load Variation
	(kWh)	(kWh)	(kWh)	(\$)	(\$/kWh)	(\$)
			(B - A)			$C \times \{(D/O^1) - E\}$
2016						
January	78,300,000	74,600,000	(3,700,000)	54.17	0.03676	(182,129)
February	70,900,000	70,600,000	(300,000)	54.73	0.03676	(15,034)
March	76,600,000	78,400,000	1,800,000	55.46	0.03676	92,289
April	75,600,000	78,800,000	3,200,000	55.46	0.03676	164,070
May	69,500,000	81,300,000	11,800,000	55.46	0.03676	605,007
June	73,800,000	80,100,000	6,300,000	54.49	0.03676	313,312
July	77,500,000	83,500,000	6,000,000	54.49	0.03676	298,392
August	77,900,000	83,500,000	5,600,000	54.49	0.03676	278,500
September	73,000,000	80,900,000	7,900,000	54.49	0.03676	392,883
October	74,400,000	83,500,000	9,100,000	54.56	0.03676	453,573
November	74,100,000	80,900,000	6,800,000	54.56	0.03676	338,934
December	72,700,000	83,500,000	10,800,000	58.98	0.03676	614,078
	<u>894,300,000</u>	<u>959,600,000</u>	<u>65,300,000</u>			<u>3,353,875</u>
2017						
January	78,300,000	83,400,000	5,100,000	54.17	0.03676	251,043
February	70,900,000	75,300,000	4,400,000	54.73	0.03676	220,497
March	76,600,000	83,500,000	6,900,000	55.46	0.03676	353,775
April	75,600,000	80,900,000	5,300,000	55.46	0.03676	271,740
May	69,500,000	83,500,000	14,000,000	55.46	0.03676	717,804
June	73,800,000	80,900,000	7,100,000	54.49	0.03676	353,098
July	77,500,000	83,500,000	6,000,000	54.49	0.03676	298,392
August	77,900,000	83,500,000	5,600,000	54.49	0.03676	278,500
September	73,000,000	64,900,000	(8,100,000)	54.49	0.03676	(402,830)
October	74,400,000	73,600,000	(800,000)	54.56	0.03676	(39,875)
November	74,100,000	81,500,000	7,400,000	54.56	0.03676	368,839
December	72,700,000	84,200,000	11,500,000	58.98	0.03676	653,879
	<u>894,300,000</u>	<u>958,700,000</u>	<u>64,400,000</u>			<u>3,324,862</u>

(1) O is the Holyrood Operating Efficiency of 630 kWh/barrel.

Newfoundland and Labrador Hydro
Rate Stabilization Plan
Load Variation - Proposed Energy Sales Allocation Methodology
September 2013 to December 2017

	A	B	C	D	E	F	G	H	I	J
		Twelve Months-to-Date							Reallocate Rural Island Customers ¹	
	Total Load Variation	Utility	Industrial Customers	Rural Island Customers	Total	Utility Load Variation	IC Load Variation	Rural Load Variation	Utility	Labrador Interconnected
	(\$)	(kWh)	(kWh)	(kWh)	(kWh)	(\$)	(\$)	(\$)		
					(B+C+D)	(B/E)*A	(C/E)*A	(D/E)*A		
2013										
September	(2,202,325)	5,433,230,398	352,544,876	452,270,963	6,238,046,237	(1,918,187)	(124,465)	(159,673)	(142,269)	(17,404)
October	(2,537,543)	5,460,083,858	346,307,206	454,251,410	6,260,642,474	(2,213,063)	(140,364)	(184,116)	(164,047)	(20,069)
November	(2,106,274)	5,505,016,420	350,543,086	456,303,327	6,311,862,833	(1,837,029)	(116,977)	(152,269)	(135,672)	(16,597)
December	(1,270,355)	5,605,729,562	351,353,424	457,992,791	6,415,075,777	(1,110,083)	(69,577)	(90,695)	(80,809)	(9,886)
	<u>(8,116,497)</u>					<u>(7,078,362)</u>	<u>(451,383)</u>	<u>(586,752)</u>	<u>(522,796)</u>	<u>(63,956)</u>
2014										
January	(2,694,038)	5,602,033,980	348,640,684	459,225,686	6,409,900,350	(2,354,497)	(146,531)	(193,009)	(171,971)	(21,038)
February	(2,140,389)	5,663,257,263	354,475,934	462,277,880	6,480,011,077	(1,870,610)	(117,086)	(152,693)	(136,050)	(16,644)
March	(2,213,089)	5,795,188,224	357,020,337	469,513,249	6,621,721,810	(1,936,848)	(119,322)	(156,919)	(139,815)	(17,104)
April	(2,283,670)	5,844,935,777	355,922,302	472,181,225	6,673,039,304	(2,000,274)	(121,805)	(161,591)	(143,978)	(17,613)
May	(1,924,504)	5,915,432,368	356,200,632	469,718,455	6,741,351,455	(1,688,723)	(101,687)	(134,094)	(119,478)	(14,616)
June	(1,501,337)	5,930,009,842	373,953,478	470,790,681	6,774,754,001	(1,314,135)	(82,871)	(104,331)	(92,959)	(11,372)
July	(1,245,724)	5,948,863,346	405,820,601	472,950,009	6,827,633,956	(1,085,389)	(74,043)	(86,291)	(76,886)	(9,406)
August	(1,280,573)	5,974,657,342	429,733,978	472,710,654	6,877,101,974	(1,112,530)	(80,020)	(88,023)	(78,428)	(9,594)
September	(748,547)	5,999,312,148	459,738,555	471,321,533	6,930,372,236	(647,984)	(49,656)	(50,907)	(45,358)	(5,549)
October	(766,608)	6,005,188,208	495,439,271	469,858,809	6,970,486,288	(660,445)	(54,488)	(51,675)	(46,042)	(5,633)
November	(858,366)	6,005,565,166	520,486,909	467,649,330	6,993,701,405	(737,088)	(63,882)	(57,397)	(51,140)	(6,256)
December	(111,715)	5,941,900,000	547,100,000	466,500,000	6,955,500,000	(95,435)	(8,787)	(7,493)	(6,676)	(817)
	<u>(17,768,560)</u>					<u>(15,503,958)</u>	<u>(1,020,178)</u>	<u>(1,244,423)</u>	<u>(1,108,781)</u>	<u>(135,642)</u>
2015										
January	(1,015,809)	5,949,200,000	581,500,000	464,100,000	6,994,800,000	(863,963)	(84,447)	(67,398)	(60,052)	(7,346)
February	(806,732)	5,923,100,000	607,500,000	461,100,000	6,991,700,000	(683,432)	(70,096)	(53,204)	(47,404)	(5,799)
March	(494,314)	5,858,900,000	641,000,000	454,000,000	6,953,900,000	(416,477)	(45,565)	(32,272)	(28,755)	(3,518)
April	(785,584)	5,806,800,000	670,200,000	451,100,000	6,928,100,000	(658,439)	(75,995)	(51,151)	(45,575)	(5,575)
May	(324,067)	5,765,200,000	701,400,000	454,100,000	6,920,700,000	(269,960)	(32,844)	(21,264)	(18,946)	(2,318)
June	(708,895)	5,767,300,000	717,400,000	454,100,000	6,938,800,000	(589,210)	(73,292)	(46,393)	(41,336)	(5,057)
July	(540,008)	5,770,800,000	731,700,000	454,100,000	6,956,600,000	(447,960)	(56,798)	(35,250)	(31,407)	(3,842)
August	(574,389)	5,774,000,000	746,000,000	454,000,000	6,974,000,000	(475,555)	(61,442)	(37,392)	(33,316)	(4,076)
September	(1,216,053)	5,780,400,000	736,800,000	453,900,000	6,971,100,000	(1,008,345)	(128,529)	(79,179)	(70,549)	(8,631)
October	(240,954)	5,785,700,000	747,500,000	453,800,000	6,987,000,000	(199,526)	(25,778)	(15,650)	(13,944)	(1,706)
November	(312,486)	5,790,800,000	758,600,000	453,700,000	7,003,100,000	(258,392)	(33,850)	(20,245)	(18,038)	(2,207)
December	676,722	5,792,500,000	772,300,000	453,600,000	7,018,400,000	558,519	74,466	43,737	38,969	4,767
	<u>(6,342,569)</u>					<u>(5,312,739)</u>	<u>(614,170)</u>	<u>(415,660)</u>	<u>(370,353)</u>	<u>(45,307)</u>

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		Twelve Months-to-Date							Reallocate Rural Island Customers ¹	
	Total Load Variation	Utility	Industrial Customers	Rural Island Customers	Total	Utility Load Variation	IC Load Variation	Rural Load Variation	Utility	Labrador Interconnected
	(\$)	(kWh)	(kWh)	(kWh)	(kWh)	(\$)	(\$)	(\$)		
					(B+C+D)	(B/E)*A	(C/E)*A	(D/E)*A		
2016										
January	(472,797)	5,798,900,000	783,600,000	452,500,000	7,035,000,000	(389,723)	(52,663)	(30,411)	(27,096)	(3,315)
February	(196,643)	5,829,800,000	796,500,000	451,600,000	7,077,900,000	(161,967)	(22,129)	(12,547)	(11,179)	(1,368)
March	90,077	5,835,700,000	807,900,000	450,800,000	7,094,400,000	74,095	10,258	5,724	5,100	624
April	162,836	5,841,600,000	826,400,000	450,000,000	7,118,000,000	133,636	18,905	10,294	9,172	1,122
May	603,897	5,844,600,000	844,500,000	449,300,000	7,138,400,000	494,444	71,443	38,010	33,867	4,143
June	223,575	5,846,200,000	863,300,000	448,600,000	7,158,100,000	182,599	26,964	14,012	12,484	1,527
July	256,795	5,845,500,000	879,300,000	447,900,000	7,172,700,000	209,279	31,480	16,036	14,288	1,748
August	214,936	5,849,600,000	895,300,000	447,300,000	7,192,200,000	174,813	26,756	13,367	11,910	1,457
September	352,688	5,848,200,000	926,800,000	446,800,000	7,221,800,000	285,606	45,262	21,820	19,442	2,378
October	372,117	5,848,200,000	939,100,000	446,200,000	7,233,500,000	300,852	48,311	22,954	20,452	2,502
November	238,235	5,853,400,000	950,300,000	445,400,000	7,249,100,000	192,367	31,231	14,638	13,042	1,596
December	1,233,356	5,858,400,000	959,600,000	444,400,000	7,262,400,000	994,918	162,967	75,471	67,245	8,226
	3,079,072					2,490,919	398,785	189,369	168,727	20,641
2017										
January	(56,565)	5,866,600,000	968,400,000	443,500,000	7,278,500,000	(45,592)	(7,526)	(3,447)	(3,071)	(376)
February	60,545	5,848,200,000	973,100,000	442,700,000	7,264,000,000	48,744	8,111	3,690	3,288	402
March	351,495	5,851,900,000	978,200,000	441,900,000	7,272,000,000	282,854	47,282	21,359	19,031	2,328
April	270,415	5,856,900,000	980,300,000	441,300,000	7,278,500,000	217,599	36,421	16,395	14,608	1,787
May	716,674	5,858,000,000	982,500,000	440,700,000	7,281,200,000	576,591	96,706	43,377	38,649	4,728
June	261,803	5,859,000,000	983,300,000	440,100,000	7,282,400,000	210,632	35,350	15,822	14,097	1,725
July	253,523	5,861,100,000	983,300,000	439,600,000	7,284,000,000	203,998	34,224	15,300	13,633	1,668
August	215,248	5,860,900,000	983,300,000	439,100,000	7,283,300,000	173,211	29,060	12,977	11,563	1,414
September	(441,467)	5,859,900,000	967,300,000	438,600,000	7,265,800,000	(356,045)	(58,773)	(26,649)	(23,744)	(2,905)
October	(120,174)	5,859,100,000	957,400,000	438,000,000	7,254,500,000	(97,059)	(15,860)	(7,256)	(6,465)	(791)
November	270,744	5,857,300,000	958,000,000	437,400,000	7,252,700,000	218,654	35,762	16,328	14,548	1,780
December	1,295,990	5,861,400,000	958,700,000	436,600,000	7,256,700,000	1,046,800	171,216	77,973	69,474	8,499
	3,078,231					2,480,387	411,973	185,871	165,611	20,260

(1) The Load Variation initially allocated to Rural Island Interconnected is re-allocated between Utility and Labrador Interconnected customers in the same proportion which the Rural Deficit was allocated in the approved Cost of Service Study, which is 89.10% and 10.90% respectively. The Labrador Interconnected amount is then removed from the plan and written off to net income (loss).