

1 Q. **Cost of Service**

2 Please update Hydro’s response IC-NLH-91 from the 2013 Amended GRA.

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5 A. IC-NLH-091 from the 2013 GRA requested an update of IC-NLH-049 from the 2006
6 GRA which reads:

7 *“Please provide a “one page” summary of the functionalized COS*
8 *information from the 2007 COS (similar to IC-13(Rev) NLH from the*
9 *2003 General Rate Application).”*

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11 Please refer to IC-NLH-109, Attachment 1 and Attachment 2 for a one page
12 summary of the functionalized cost of service information for each of the 2018 and
13 2019 Test Year Cost of Service Studies for the Island Interconnected System.

NEWFOUNDLAND AND LABRADOR HYDRO

2018 Test Year Cost of Service Study
Functional Summary- Island interconnected

	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Oper. & Maintenance	Fuels	Purchased Power	Depreciation	Expense Credits	Return on Rate Base Debt	Equity	Total	Demand Ratio	Demand Costs	Energy Costs	Rural Gen / Transmsn	Spec Assigned
Generation:													
Other Hydraulic	24,988,887			19,747,845	(134,783)	32,989,946	12,539,655	90,131,550	44.93%	40,495,020	49,636,530		
GNP Hydraulic	0			0	0	0	0	0	44.93%	0	0	0	
Transmission Lines	881,211			1,670,436	(7,714)	1,813,182	689,200	5,046,316	44.93%	2,267,249	2,779,067		
Terminal Stations -	1,370,430			1,119,970	(6,783)	1,421,255	540,227	4,445,099	44.93%	1,997,130	2,447,970		
Hydraulic	27,240,529			22,538,250	(149,280)	36,224,384	13,769,082	99,622,965		44,759,398	54,863,567	0	0
Holyrood	30,794,429			19,814,644	(53,183)	4,830,435	1,836,074	57,222,399	69.56%	39,803,901	17,418,498		
Terminal Stations	421,883			232,770	(2,088)	370,371	140,780	1,163,716	69.56%	809,481	354,235		
Holyrood Fuel		218,330,789				2,835,538	1,077,803	222,244,130	0.00%	0	222,244,130		
Holyrood	31,216,312	218,330,789	0	20,047,414	(55,271)	8,036,343	3,054,657	280,630,244		40,613,381	240,016,863	0	0
Gas Turbines	13,608,129			7,319,423	(29,617)	6,752,241	2,566,563	30,216,739	100.00%	30,216,739	0		
Terminal Stations -	13,456			8,943	(67)	19,811	7,530	49,674	100.00%	49,674	0		
Gas Turbines Fuel		11,934,765				196,537	74,705	12,206,007	100.00%	12,206,007	0		
Gas Turbines	13,621,585	11,934,765	0	7,328,366	(29,684)	6,968,589	2,648,798	42,472,420		42,472,420	0	0	0
Diesel	594,557			124,799	(1,444)	124,759	47,421	890,091	100.00%	890,091	0		0
Terminal Stations -	0			0	0	0	0	0	100.00%	0	0		0
Distribution Substn	0			0	0	0	0	0	100.00%	0	0		0
Diesel Fuel		127,082				18,869	7,172	153,123	100.00%	153,123	0		0
Diesel	594,557	127,082	0	124,799	(1,444)	143,627	54,593	1,043,214		1,043,214	0	0	0
Feasibility Studies	8			142,424	0	6,112	2,323	150,867	100.00%	150,867	0		0
Purchased Power Wind			14,105,549					14,105,549	0.00%	0	14,105,549		
Purchased Power (0		42,796,030	0	0	0	0	42,796,030	44.93%	19,227,741	23,568,289		
Purchased Power - Interruptible			3,396,596					3,396,596		3,396,596	0		
Subtotal Generati	72,672,990	230,392,636	60,298,175	50,181,253	(235,679)	51,379,055	19,529,454	484,217,884		151,663,616	332,554,268	0	0
Transmission:													
Lines Network	6,923,961			10,752,490	(60,611)	15,699,447	5,967,444	39,282,731	100%	39,282,731	0		
Lines Export	0			0	0	0	0	0	100%	0	0		
Specifically Assign	581,380			719,021	(5,089)	716,846	272,477	2,284,636					2,284,636
Terminal Stations I	5,638,663			4,563,725	(27,907)	6,648,548	2,527,149	19,350,177	100%	19,350,177	0		
Terminal Stations I	0			0	0	0	0	0	100%	0	0		
Specifically Assign	964,542			582,527	(4,774)	814,814	309,715	2,666,826					2,666,826
Rural Transmissior	1,546,895		766,983	2,093,845	(13,541)	2,342,102	890,245	7,626,528					
Rural Transmissior	692,166			589,424	(3,426)	654,302	248,704	2,181,170					
Subtotal Rural Tr	2,239,060	0	766,983	2,683,269	(16,967)	2,996,404	1,138,949	9,807,698	100%	0	0	9,807,698	0
Feasibility Studies	0			0	0	0	0	0	100%	0	0		
Wheeling Revenue	0			0	0	0	0	0	100%	0	0		
Subtotal Transmi	16,347,607	0	766,983	19,301,033	(115,348)	26,876,060	10,215,734	73,392,068		58,632,908	0	9,807,698	4,951,462
Subtotal Generati	89,020,597	230,392,636	61,065,158	69,482,285	(351,027)	78,255,116	29,745,188	557,609,952		210,296,525	332,554,268	9,807,698	4,951,462
Distribution	12,519,748	0	0	7,067,536	(1,172,205)	5,700,285	2,166,709	26,282,073					
Subtotal Generati	101,540,345	230,392,636	61,065,158	76,549,821	(1,523,232)	83,955,401	31,911,897	583,892,025					4,951,462
Customer Acco	3,165,685			178,470	(13,542)	113,711	43,222	3,487,546					
General Plant													
General Plant	0			0	0	0	0	0					
NLSO	1,484			131,773	(1)	66,962	25,453	225,672					
Telecontrol Comm	0			0	0	0	0	0					
Feasibility Studies	0			0	0	0	0	0					
Software General	0			0	0	0	0	0					
Telecontrol Specifi	0			0	0	0	0	0					0
	1,484	0	0	131,773	(1)	66,962	25,453	225,672					0
Revenue-Relate	2,327,920				(987)			2,326,934					
TOTAL	107,035,435	230,392,636	61,065,158	76,860,064	(1,537,762)	84,136,074	31,980,572	589,932,177					4,951,462

NEWFOUNDLAND AND LABRADOR HYDRO
2019 Test Year Cost of Service Study
Functional Summary - Island Interconnected

	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Oper. & Maintenance	Fuels	Purchased Power	Depreciation	Expense Credits	Return on Rate Base Debt	Equity	Total	Demand Ratio	Demand Costs	Energy Costs	Rural Gen / Transmsn	Spec Assigned
Generation:													
Other Hydraulic	25,313,805			20,689,238	(131,244)	32,260,504	13,102,566	91,234,869	44.72%	40,799,206	50,435,663		
GNP Hydraulic	0			0	0	0	0	0	44.72%	0	0	0	
Transmission Lines - Hydraulic	833,907			1,664,418	(7,318)	1,689,785	686,304	4,867,096	44.72%	2,176,511	2,690,586		
Terminal Stations - Hydraulic	1,270,338			1,127,780	(6,436)	1,341,350	544,788	4,277,819	44.72%	1,912,993	2,364,827		
Hydraulic	27,418,049			23,481,436	(144,998)	35,291,639	14,333,658	100,379,785		44,888,709	55,491,076	0	0
Holyrood	31,466,370			21,040,277	(53,261)	4,858,936	1,973,451	59,285,774	69.56%	41,239,184	18,046,590		
Terminal Stations	405,003			284,090	(2,052)	374,114	151,946	1,213,100	69.56%	843,832	369,268		
Holyrood Fuel		221,114,563				2,675,207	1,086,532	224,876,303	0.00%	0	224,876,303		
Holyrood	31,871,373	221,114,563	0	21,324,367	(55,313)	7,908,257	3,211,930	285,375,176		42,083,017	243,292,160	0	0
Gas Turbines	14,044,382			6,462,653	(29,640)	6,744,777	2,739,383	29,961,556	100.00%	29,961,556	0		
Terminal Stations - Gas Tur	20,479			9,307	(104)	31,805	12,917	74,405	100.00%	74,405	0		
Gas Turbines Fuel		12,632,138				198,554	80,643	12,911,335	100.00%	12,911,335	0		
Gas Turbines	14,064,861	12,632,138	0	6,471,960	(29,743)	6,975,136	2,832,943	42,947,295		42,947,295	0	0	0
Diesel	599,420			131,378	(1,403)	126,479	51,369	907,243	100.00%	907,243	0	0	
Terminal Stations - Diesel	0			0	0	0	0	0	100.00%	0	0	0	
Distribution Substns - Diesel	0			0	0	0	0	0	100.00%	0	0	0	
Diesel Fuel		138,012				15,030	6,105	159,147	100.00%	159,147	0	0	
Diesel	599,420	138,012	0	131,378	(1,403)	141,509	57,474	1,066,390		1,066,390	0	0	0
Feasibility Studies	1			118,092	0	414	168	118,674	100.00%	118,674	0		
Purchased Power Wind			14,162,565					14,162,565	0.00%	0	14,162,565		
Purchased Power Other NUGS	0		43,992,714	0	0	0	0	43,992,714	44.72%	19,673,046	24,319,668		
Purchased Power - Interruptible			3,130,400					3,130,400		3,130,400	0		
Subtotal Generation	73,953,704	233,884,713	61,285,679	51,527,233	(231,458)	50,316,955	20,436,173	491,173,000		153,907,532	337,265,468	0	0
Transmission:													
Lines Network	7,071,181			10,986,405	(62,050)	16,265,865	6,606,362	40,867,764	100%	40,867,764	0		
Lines Export	0			0	0	0	0	0	100%	0	0		
Specifically Assigned - Lines	551,047			717,064	(4,835)	668,647	271,570	2,203,492					2,203,492
Terminal Stations Network	6,107,771			5,264,686	(30,946)	7,719,369	3,135,213	22,196,093	100%	22,196,093	0		
Terminal Stations Export	0			0	0	0	0	0	100%	0	0		
Specifically Assigned - Term Stns	1,018,198			722,120	(5,159)	965,832	392,271	3,093,263					3,093,263
Rural Transmission - Lines	1,548,599		769,061	2,274,835	(13,589)	2,416,521	981,467	7,976,894					
Rural Transmission - Stations	638,123			586,930	(3,233)	609,653	247,610	2,079,083					
Subtotal Rural Transmission	2,186,722	0	769,061	2,861,765	(16,822)	3,026,174	1,229,077	10,055,977	100%	0	0	10,055,977	0
Feasibility Studies	0			0	0	0	0	0	100%	0	0		
Wheeling Revenues	0			0	0	0	0	0	100%	0	0		
Subtotal Transmission	16,934,920	0	769,061	20,552,040	(119,813)	28,645,887	11,634,494	78,416,589		63,063,857	0	10,055,977	5,296,755
Subtotal Generation & Transmsn	90,888,624	233,884,713	62,054,740	72,079,273	(351,270)	78,962,842	32,070,667	569,589,589		216,971,389	337,265,468	10,055,977	5,296,755
Distribution	12,685,819	0	0	7,501,367	(1,186,115)	5,611,235	2,278,997	26,891,302					0
Subtotal Generation, Trans & Dist	103,574,443	233,884,713	62,054,740	79,580,641	(1,537,386)	84,574,077	34,349,663	596,480,891					5,296,755
Customer Accounting	3,225,277			200,461	(13,540)	128,207	52,071	3,592,476					
General Plant													
General Plant	0			0	0	0	0	0					
NLSO	1,466			118,423	(1)	66,570	27,037	213,497					
Telecontrol Common	0			0	0	0	0	0					
Feasibility Studies	0			0	0	0	0	0					
Software General	0			0	0	0	0	0					
Telecontrol Specific	0			0	0	0	0	0					0
	1,466	0	0	118,423	(1)	66,570	27,037	213,497					0
Revenue-Related	2,353,292				(978)			2,352,314					
TOTAL	109,154,478	233,884,713	62,054,740	79,899,525	(1,551,903)	84,768,854	34,428,772	602,639,178					5,296,755