

1 Q. (Summary Report – Additional Cost of Service Information, page 7, lines 13 to 16)
2 Please provide a table showing a representative purchase from the ISO New
3 England pool (i.e., the hub price) on a weekday in March 2017 for 100 MW for each
4 hour between the hours of 7 am and 11 pm including the cost of energy and the
5 cost of transmission (wheeling) by zone/jurisdiction for delivery to the Island
6 Interconnected System.

7
8

9 A. CA-NLH-263 Attachment 1, prepared by Nalcor Energy Marketing, illustrates what it
10 would have cost to purchase energy from the ISO New England day-ahead market
11 and deliver it to the Island Interconnected System on Friday, March 31, 2017.
12 Friday, March 31, 2017 is considered representative of prices for that month in
13 which the average daily on-peak prices ranged from a low of US \$20.54/MWh to a
14 high of US \$64.13/MWh for energy purchased from ISO-NE Salisbury Trading Node.

15

16 Please note that 111 MWh Salisbury Trading Node must be purchased from ISO-NE
17 in order to receive 100 MWh delivered to the Island Interconnected System due to
18 system losses.

Eastern Time 3/31/2017	New England								New Brunswick				Nova Scotia				Maritime Link				Newfoundland	
	Energy Purchased from ISO-NE		ISO-NE Export Fees	Total ISO-NE	Exchange Rate	Total ISO-NE	Total ISO-NE	Energy Delivered to NB	NB Wheeling Cost	NB Wheeling Cost	NB Loss Rate	Energy Delivered to NS	NS Wheeling Cost	NS Wheeling Cost	NS Loss Rate	Energy Delivered to Maritime Link	Maritime Link Wheeling Cost	Maritime Link Wheeling Cost	Maritime Link Loss rate	Energy Delivered to NL at Bottom Brook	Total Cost to Purchase and Deliver Energy (C\$)	Total Cost to Purchase and Deliver Energy (C\$/MWh)
	Salisbury Trading Node (MWh)	Purchase Price (US\$/MWh)	(US\$/MWh)	Purchase Price (US\$/MWh)	(CAD/USD)	Purchase Price (C\$/MWh)	Purchase Price (C\$)	(MWh)	(C\$/MWh)	(C\$)		(MWh)	(C\$/MWh)	(C\$)		(MWh)	(C\$/MWh)	(C\$)		(MWh)		
	A = H	B	C	D = (B + C)	E	F = (D * E)	G = (A * F)	H = L * (1 + K)	I	J = (I * H)	K	L = P * (1 + O)	M	N = (L * M)	O	P = T * (1 + S)	Q	R = (P * Q)	S	T	U = (G + J + N + R)	V = U / T
Hour Ending 8	111	\$33.57	\$14.89	\$48.46	1.331	\$64.50	\$7,159.16	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$9,691.01	\$96.91
Hour Ending 9	111	\$37.60	\$14.89	\$52.49	1.331	\$69.86	\$7,754.56	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,286.40	\$102.86
Hour Ending 10	111	\$38.54	\$14.89	\$53.43	1.331	\$71.11	\$7,893.43	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,425.28	\$104.25
Hour Ending 11	111	\$44.70	\$14.89	\$59.59	1.331	\$79.31	\$8,803.52	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$11,335.37	\$113.35
Hour Ending 12	111	\$44.28	\$14.89	\$59.17	1.331	\$78.75	\$8,741.47	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$11,273.31	\$112.73
Hour Ending 13	111	\$41.67	\$14.89	\$56.56	1.331	\$75.28	\$8,355.86	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,887.71	\$108.88
Hour Ending 14	111	\$43.98	\$14.89	\$58.87	1.331	\$78.35	\$8,697.14	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$11,228.99	\$112.29
Hour Ending 15	111	\$38.74	\$14.89	\$53.63	1.331	\$71.38	\$7,922.98	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,454.83	\$104.55
Hour Ending 16	111	\$38.58	\$14.89	\$53.47	1.331	\$71.17	\$7,899.34	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,431.19	\$104.31
Hour Ending 17	111	\$39.84	\$14.89	\$54.73	1.331	\$72.84	\$8,085.50	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,617.34	\$106.17
Hour Ending 18	111	\$45.72	\$14.89	\$60.61	1.331	\$80.67	\$8,954.21	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$11,486.06	\$114.86
Hour Ending 19	111	\$39.96	\$14.89	\$54.85	1.331	\$73.00	\$8,103.22	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,635.07	\$106.35
Hour Ending 20	111	\$38.28	\$14.89	\$53.17	1.331	\$70.77	\$7,855.02	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,386.87	\$103.87
Hour Ending 21	111	\$33.77	\$14.89	\$48.66	1.331	\$64.76	\$7,188.71	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$9,720.56	\$97.21
Hour Ending 22	111	\$36.15	\$14.89	\$51.04	1.331	\$67.93	\$7,540.33	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$10,072.18	\$100.72
Hour Ending 23	111	\$34.68	\$14.89	\$49.57	1.331	\$65.97	\$7,323.15	111	\$7.18	\$796.91	3.30%	107	\$16.21	\$1,734.94	2.78%	104	\$0.00	\$0.00	4.06%	100	\$9,855.00	\$98.55

** This illustration does not include any additional wheeling fees for use of the Maritime Link transmission rights nor does it include any additional marketing fees.

ISO-NE = New England System Operator

NB = New Brunswick

NS = Nova Scotia