

1 Q. For each day in 2014 for which Hydro is requesting added supply-related costs,
2 please provide the following information:

- 3 • Generating units / MW unavailable
- 4 • Temperature variable
- 5 • Peak load
- 6 • Source, MWh, and cost of replacement power.

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9 A. Please refer to PR-PUB-NLH-132 Attachment 1. Hydro does not track daily
10 consumption and costs at the standby units as the fuel usage measurements and
11 accounting entries are done monthly. However, to be responsive to this question,
12 Hydro has estimated costs daily, based on a proration of the daily energy amounts
13 over the total energy for the month multiplied by the total net cost for the month.
14 Note that the other assumptions used in this response are listed at the end of the
15 table on page 3 of 3 of PR-PUB-NLH-132 Attachment 1.

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17 The costs over the period are related to operation of standby generation and
18 Corner Brook Pulp and Paper capacity assistance requests which were required to
19 minimize the impact to customers, maintain spinning reserves and to ensure the
20 integrity of the power system. There were also other standby generation costs
21 associated with the fuel used during run-up and testing of the units, for weather
22 preparedness and to have units on in advance of peak load periods.

Date	Capacity	St. John's	System	Source				Unit (MW Unavailable)
	Unavailable	Low Temp	Peak	Purchases - CBPP		Generation - Gas Turbines and Diesels		
	(MW) ⁽¹⁾	(°C) ⁽²⁾	(MW) ⁽³⁾	Energy ⁽⁴⁾ (MWh)	Cost ⁽⁷⁾ (\$\$\$)	Energy ⁽⁵⁾⁽⁶⁾ (MWh)	Cost ⁽⁷⁾ (\$\$\$)	
1-Jan-14	231	-15.1	1441	171.49	61,380	472.80	125,569	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 2 (25 MW), HRD Unit 3 (100 MW), GCL Unit (8 MW), Exploits (23 MW)
2-Jan-14	232	-18.4	1499	1,042.42	692,013	890.78	236,577	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 2 (25 MW), HRD Unit 3 (100 MW), GCL Unit (8 MW), Exploits (24 MW)
3-Jan-14	227	-18.3	1535	1,378.30	882,939	1,081.08	287,118	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 2 (20 MW), HRD Unit 3 (100 MW), GCL Unit (8 MW), Exploits (24 MW)
4-Jan-14	207	-14.9	1469	557.03	678,889	435.48	115,657	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), GCL Unit (8 MW), Exploits (24 MW)
5-Jan-14	374	-11.2	1329	1,379.45	950,332	951.28	252,646	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), GCL Unit (8 MW), HRD Unit 1 (165 MW), Exploits (26 MW)
6-Jan-14	361	-11.0	1266	1,326.12	864,095	429.99	114,198	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), HRD Unit 1 (165 MW), Exploits (21 MW)
7-Jan-14	360	-5.6	1199	-	-	18.15	4,819	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), HRD Unit 1 (165 MW), Exploits (20 MW)
8-Jan-14	358	-9.3	1449	885.35	556,777	442.47	117,514	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), HRD Unit 1 (165 MW), Exploits (18 MW)
9-Jan-14	221	-11.2	1373	-	-	238.27	63,281	HWD GT (50 MW), SVL GT (50 MW), HRD Unit 3 (100 MW), Exploits (21 MW)
10-Jan-14	192	-12.8	1423	471.51	315,678	789.40	209,653	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), Exploits (17 MW)
11-Jan-14	183	-4.9	1223	-	-	222.90	59,199	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), Exploits (8 MW)
12-Jan-14	183	1.8	1054	-	-	88.33	23,460	HWD GT (50 MW), SVL GT (25 MW), HRD Unit 3 (100 MW), Exploits (8 MW)
13-Jan-14	36	-2.0	1210	-	-	-	-	SVL GT (25 MW), Exploits (11 MW)
14-Jan-14	31	-3.0	1150	-	-	-	-	SVL GT (25 MW), Exploits (6 MW)
15-Jan-14	140	-0.2	1044	-	-	9.03	2,398	BDE Unit 5 (75 MW - planned), GCL Unit (40 MW), SVL GT (25 MW)
16-Jan-14	25	1.4	1060	-	-	-	-	SVL GT (25 MW)
17-Jan-14	25	-0.8	1082	-	-	-	-	SVL GT (25 MW)
18-Jan-14	119	-0.8	1107	-	-	47.81	12,696	GCL Unit (19 MW), HRD Unit 3 (75 MW), SVL GT (25 MW)
19-Jan-14	100	-2.5	1145	-	-	44.37	11,785	HRD Unit 3 (75 MW), SVL GT (25 MW)
20-Jan-14	100	-1.5	1177	-	-	-	-	HRD Unit 3 (75 MW), SVL GT (25 MW)
21-Jan-14	100	-7.6	1272	-	-	77.48	20,577	HRD Unit 3 (75 MW), SVL GT (25 MW)
22-Jan-14	100	-7.6	1321	-	-	1.05	278	HRD Unit 3 (75 MW), SVL GT (25 MW)
23-Jan-14	175	-5.0	1313	-	-	141.82	37,665	Hinds Lake Unit (75 MW), HRD Unit 3 (75 MW), SVL GT (25 MW)
24-Jan-14	175	-7.6	1300	-	-	-	-	BDE Unit 2 (75 MW), HRD Unit 3 (75 MW), SVL GT (25 MW)
25-Jan-14	140	-10.1	1291	-	-	58.57	15,555	GCL Unit (40 MW- planned), HRD Unit 3 (75 MW), SVL GT (25 MW)
26-Jan-14	75	-4.0	1296	-	-	-	-	HRD Unit 3 (50 MW), SVL GT (25 MW)
27-Jan-14	25	-5.6	1339	-	-	26.01	6,908	HRD Unit 3 (50 MW), SVL GT (25 MW)
28-Jan-14	25	-10.0	1237	-	-	45.52	12,090	SVL GT (25 MW)
29-Jan-14	25	-10.5	1408	-	-	3.47	922	SVL GT (25 MW)
30-Jan-14	100	-10.2	1400	-	-	-	-	BDE Unit 6 (75 MW), SVL GT (25 MW)
31-Jan-14	100	-10.8	1358	-	-	-	-	BDE Unit 6 (75 MW), SVL GT (25 MW)
January Totals				7,211.67	5,002,103	6,516.06	1,730,564	

Date	Capacity	St. John's	System	Source				Unit (MW Unavailable)
	Unavailable (MW) ⁽¹⁾	Low Temp (°C) ⁽²⁾	Peak (MW) ⁽³⁾	Purchases - CBPP		Generation - Gas Turbines and Diesels		
				Energy ⁽⁴⁾ (MWh)	Cost ⁽⁷⁾ (\$\$\$)	Energy ⁽⁵⁾⁽⁶⁾ (MWh)	Cost ⁽⁷⁾ (\$\$\$)	
1-Feb-14	100	-8.6	1258	-	-	77.88	31,889	BDE Unit 6 (75 MW), SVL GT (25 MW)
2-Feb-14	195	-9.2	1297	-	-	-	-	HRD Unit 1 (170 MW), SVL GT (25 MW)
3-Feb-14	195	-12.5	1292	-	-	-	-	HRD Unit 1 (170 MW), SVL GT (25 MW)
4-Feb-14	195	-13.3	1394	91.15	94,687	204.64	83,797	HRD Unit 1 (170 MW), SVL GT (25 MW)
5-Feb-14	25	-11.9	1407	-	-	50.96	20,867	SVL GT (25 MW)
6-Feb-14	25	-15.7	1469	-	-	320.93	131,414	SVL GT (25 MW)
7-Feb-14	25	-14.4	1474	-	-	137.85	56,449	SVL GT (25 MW)
8-Feb-14	25	-12.3	1365	-	-	7.91	3,239	SVL GT (25 MW)
9-Feb-14	25	-15.0	1402	-	-	79.59	32,591	SVL GT (25 MW)
10-Feb-14	25	-17.1	1513	-	-	1,131.22	463,219	SVL GT (25 MW)
11-Feb-14	25	-14.8	1486	-	-	597.00	244,462	SVL GT (25 MW)
12-Feb-14	25	-15.5	1481	-	-	437.83	179,283	SVL GT (25 MW)
13-Feb-14	55	-10.4	1426	-	-	90.84	37,196	HRD Unit 1 (30 MW), SVL GT (25 MW)
14-Feb-14	55	-4.2	1372	-	-	-	-	HRD Unit 1 (30 MW), SVL GT (25 MW)
15-Feb-14	55	-4.3	1244	-	-	52.57	21,525	HRD Unit 1 (30 MW), SVL GT (25 MW)
16-Feb-14	115	-4.7	1366	-	-	66.77	27,342	CBPP (60 MW) ⁽⁸⁾ , HRD Unit 1 (30 MW), SVL GT (25 MW)
17-Feb-14	130	-6.2	1355	-	-	15.43	6,318	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
18-Feb-14	190	-8.4	1314	-	-	446.95	183,021	CBPP (60 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
19-Feb-14	130	-8.8	1333	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
20-Feb-14	130	-0.4	1239	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
21-Feb-14	130	-2.3	1226	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
22-Feb-14	130	-4.6	1246	-	-	25.09	10,274	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
23-Feb-14	130	-3.8	1102	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
24-Feb-14	130	-4.6	1224	-	-	97.05	39,740	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
25-Feb-14	138	-9.1	1282	-	-	28.08	11,498	PRV Unit (8 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (25 MW)
26-Feb-14	123	-10.0	1334	-	-	0.98	401	PRV Unit (8 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (10 MW)
27-Feb-14	115	-9.4	1350	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (10 MW)
28-Feb-14	115	-10.1	1339	-	-	29.90	12,244	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (10 MW)
February Totals				91.15	94,687	3,899.45	1,596,769	

Date	Capacity	St. John's	System	Source				Unit (MW Unavailable)
	Unavailable (MW) ⁽¹⁾	Low Temp (°C) ⁽²⁾	Peak (MW) ⁽³⁾	Purchases - CBPP		Generation - Gas Turbines and Diesels		
				Energy ⁽⁴⁾ (MWh)	Cost ⁽⁷⁾ (\$\$\$)	Energy ⁽⁵⁾⁽⁶⁾ (MWh)	Cost ⁽⁷⁾ (\$\$\$)	
1-Mar-14	142	-12.0	1314	-	-	91.81	26,361	HWD GT (25 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (12 MW)
2-Mar-14	142	-12.9	1268	-	-	19.94	5,725	HWD GT (25 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (12 MW)
3-Mar-14	142	-13.4	1319	-	-	36.92	10,600	HWD GT (25 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (12 MW)
4-Mar-14	200	-17.8	1477	-	-	757.09	217,386	CBPP (60 MW), HWD GT (25 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW), SVL GT (10 MW)
5-Mar-14	155	-17.7	1486	403.43	305,844	1,237.33	355,278	SVL GT (25 MW), HWD GT (25 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
6-Mar-14	135	-17.3	1459	-	-	647.59	185,943	SVL GT (10 MW), HRD Unit 3 (20 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
7-Mar-14	130	-15.9	1405	-	-	312.51	89,731	HWD GT (25 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
8-Mar-14	105	-5.8	1197	-	-	0.32	92	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
9-Mar-14	105	-11.9	1234	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
10-Mar-14	155	-16.7	1389	-	-	110.38	31,695	SVL GT (50 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
11-Mar-14	170	-16.3	1432	-	-	246.25	70,707	HRD Unit 1 (70 MW), HWD GT (25 MW), BDE Unit 6 (75 MW)
12-Mar-14	105	-5.5	1264	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
13-Mar-14	105	-3.4	1219	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
14-Mar-14	105	-9.0	1206	-	-	-	-	BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
15-Mar-14	180	-11.3	1234	-	-	-	-	HLK Unit (75 MW), BDE Unit 6 (75 MW), HRD Unit 1 (30 MW)
16-Mar-14	245	-9.3	1218	-	-	-	-	HRD Unit 1 (170 MW - planned) ⁽⁹⁾ , BDE Unit 6 (75 MW)
17-Mar-14	95	-9.8	1343	-	-	-	-	HRD Unit 1 (20 MW), BDE Unit 6 (75 MW)
18-Mar-14	95	-11.0	1413	-	-	10.91	3,133	HRD Unit 1 (20 MW), BDE Unit 6 (75 MW)
19-Mar-14	199	-6.5	1224	-	-	96.23	27,630	HWD GT (25 MW), BDE Unit 4 (77 MW) ⁽⁹⁾ , HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
20-Mar-14	199	-7.4	1237	-	-	0.14	39	HWD GT (25 MW), BDE Unit 4 (77 MW), HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
21-Mar-14	199	-3.4	1210	-	-	-	-	HWD GT (25 MW), BDE Unit 4 (77 MW), HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
22-Mar-14	97	-4.9	1098	-	-	-	-	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
23-Mar-14	97	-4.2	1155	-	-	-	-	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
24-Mar-14	97	-3.9	1206	-	-	-	-	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
25-Mar-14	97	-10.3	1286	-	-	96.07	27,586	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
26-Mar-14	97	-13.6	1362	-	-	0.43	122	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
27-Mar-14	97	-4.2	1218	-	-	-	-	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
28-Mar-14	174	-4.5	1280	-	-	-	-	BDE Unit 2 (77 MW), HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
29-Mar-14	97	-3.7	1144	-	-	-	-	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
30-Mar-14	97	-5.5	1131	-	-	34.11	9,794	HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
31-Mar-14	122	-5.8	1261	-	-	-	-	Exploits Unit 4 (25 MW), HRD Unit 1 (20 MW), BDE Unit 6 (77 MW)
March Totals				403.43	305,844	3,698.02	1,061,822	
Period Totals				7,706.25	5,402.634	14,113.53	4,389,156	

- Notes:
1. Capacity as at 0800 hours. Sourced to Hydro's EMS Data and the response to PUB-NLH-034 (Isl Int System Supply Issues and Power Outages) for Jan 1- Jan 15. Sourced to Hydro's Daily Supply and Demand Reports January 16-March 31.
 2. St. John's daily low temperatures as per Environment Canada website.
 3. System generation includes NLH hydro, thermal, standby and purchases. Does not include customer owned generation.
 4. Daily energy amounts for CBPP Capacity Assistance determined from interval metering data.
 5. Daily energy amounts for HWD GT, SVL GT, HBY Diesels and STA Diesels determined from Hydro's daily EMS data scaled to equal the monthly metered amounts.
 6. Daily energy amounts for NP's standby units, including MGT-G relocated to Holyrood, determined from interval metering data.
 7. All costs are adjusted to net out fuel savings at Holyrood, the 2007 Test Year amounts and increase in NP revenues.
 8. Indicates that CBPP Capacity Assistance of 60 MW not available due to frazil ice issues at the Deer Lake Powerhouse.
 9. Following a review of generating unit capability in March 2014, BDE Units 1-6 ratings were restated as 76.5 MW. Holyrood Units 1 and 2 ratings were restated at 170 MW.