

1 Q. Please provide all studies, documents, data, calculations and workpapers for
2 the 2007 load forecast used in Hydro's COS study similar to the response to
3 PUB-3 NLH from the 2003 GRA.

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6 A. As outlined in Regulated Activities: Evidence page 24, Hydro's short-term
7 operating load forecast is a combination of direct input from industrial
8 customers, NP and Hydro's analysis for interconnected and isolated
9 systems. The total load requirement is determined from an analysis of overall
10 system losses and demand diversity.

11

12 Please see attached load forecast tables and worksheets.

																										Annual Energy
2007		Jan-07		Feb-07		Mar-07		Apr-07		May-07		Jun-07		Jul-07		Aug-07		Sep-07		Oct-07		Nov-07		Dec-07		
	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	MW	GWH	GWH	
Newfoundland Power	1121.5	574.8	1115.5	518.6	1011.5	524.7	880.9	430.9	779.0	366.6	678.6	303.2	561.5	297.2	536.4	290.4	602.3	302.8	775.5	365.7	913.4	445.3	1096.1	543.8	4964.0	
Hydro Rural Interconnected	84.8	41.4	81.1	39.1	75.5	36.3	68.9	34.0	64.4	31.3	60.6	29.0	56.0	27.3	53.1	26.4	56.9	26.7	63.0	29.3	70.1	33.1	84.8	38.1	392.0	
ACI - Grand Falls																										
Generation Outage Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Power on Order	20.0	11.6	20.0	9.9	20.0	11.0	20.0	10.0	20.0	11.6	20.0	11.2	20.0	11.6	20.0	11.6	20.0	10.9	20.0	11.0	20.0	10.6	20.0	10.4	131.4	
Interruptible	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Compensation	4.0	2.4	5.0	2.7	5.0	3.0	6.0	3.5	4.0	2.4	4.0	2.3	4.0	2.4	4.0	2.4	4.0	2.2	5.0	3.0	5.0	2.9	4.0	1.8	31.0	
Total NLH Sales	24.0	14.0	25.0	12.6	25.0	14.0	26.0	13.5	24.0	14.0	24.0	13.5	24.0	14.0	24.0	14.0	24.0	13.1	25.0	14.0	25.0	13.5	24.0	12.2	162.4	
ACI - Stephenville																										
Power on Order	3.0	1.3	3.0	1.2	3.0	1.2	3.0	0.8	3.0	0.4	3.0	0.2	3.0	0.2	3.0	0.2	3.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.7	
Interruptible	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total NLH Sales	3.0	1.3	3.0	1.2	3.0	1.2	3.0	0.8	3.0	0.4	3.0	0.2	3.0	0.2	3.0	0.2	3.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.7	
Corner Brook Pulp & Paper																										
Generation Outage Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Power on Order	54.0	39.4	54.0	35.5	54.0	39.4	54.0	38.1	54.0	32.5	54.0	37.5	54.0	38.8	54.0	38.8	54.0	35.9	54.0	38.8	54.0	37.9	54.0	35.0	447.6	
Interruptible	5.4	0.6	5.4	0.5	5.4	0.6	5.4	0.2	5.4	0.2	5.4	0.2	5.4	0.2	5.4	0.2	5.4	0.2	5.4	0.2	5.4	1.6	5.4	0.2	42.9	
Total NLH Sales	59.4	40.0	59.4	36.0	59.4	40.0	59.4	38.3	59.4	32.7	59.4	37.7	59.4	39.0	59.4	39.0	59.4	36.1	59.4	39.0	59.4	39.5	59.4	35.2	452.5	
North Atlantic Refining																										
Power on Order	30.5	21.2	30.5	19.3	30.5	19.5	30.5	21.3	30.5	19.5	30.5	19.5	30.5	21.4	30.5	21.8	30.5	20.7	30.5	19.1	30.5	20.2	30.5	21.8	245.3	
Interruptible	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total NLH Sales	30.5	21.2	30.5	19.3	30.5	19.5	30.5	21.3	30.5	19.5	30.5	19.5	30.5	21.4	30.5	21.8	30.5	20.7	30.5	19.1	30.5	20.2	30.5	21.8	245.3	
Aur Resources																										
Power on Order	10.0	4.8	10.0	5.0	10.0	5.5	10.0	5.4	10.0	5.5	10.0	5.4	10.0	5.5	10.0	5.5	10.0	5.3	10.0	5.5	10.0	5.4	10.0	5.5	64.3	
Interruptible	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total NLH Sales	10.0	4.8	10.0	5.0	10.0	5.5	10.0	5.4	10.0	5.5	10.0	5.4	10.0	5.5	10.0	5.5	10.0	5.3	10.0	5.5	10.0	5.4	10.0	5.5	64.3	
Voisey's Bay Nickel																										
Power on Order	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Interruptible	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total NLH Sales	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL NLH SALES	1307.6	697.5	1299.1	631.8	1190.1	641.2	1054.7	544.2	946.9	470.0	843.3	408.5	722.3	404.6	694.6	397.3	763.8	404.9	940.4	472.6	1084.5	557.0	1279.6	656.6	6286.2	
Losses	39.9	20.2	39.6	18.3	36.3	18.6	35.5	17.4	31.9	15.0	32.8	15.1	31.1	16.6	30.0	16.3	27.3	13.8	31.6	15.1	35.4	17.3	39.0	19.7	203.4	
Required NLH Generation	1347.5	717.7	1338.7	650.1	1226.4	659.8	1090.2	561.6	978.8	485.0	876.1	423.6	753.4	421.2	724.6	413.6	791.1	418.7	972.0	487.7	1119.9	574.3	1318.6	676.3	6489.6	
ILH WHEELED																										
ACI-STV from ACI-GF		0.1		0.1		0.1		0.1		0.1		0.0		0.0		0.0		0.1		0.0		0.0		0.0	0.6	
ACI-GF from Buchans		1.0		0.9		0.8		1.0		1.0		1.0		0.9		0.8		0.6		0.5		0.8		0.8	10.1	
Total Wheeling		1.1		1.0		0.9		1.1		1.1		1.0		0.9		0.8		0.7		0.5		0.8		0.8	10.7	
NOTES:	1. Newfoundland Power MW's are maximum purchase MW's.																									
	2. Expected demand losses are 3.0% for the peak demand month.																									
	3. Energy losses based on 10 year history.																									
	4. Required NLH Net Generation MW's are NLH system coincident MW's and include customer firm demand requirements only.																									
	Date: May 23, 2006																									
	Prepared By: Economic Analysis Section, System Planning Department																									
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Date: May 24, 2006			
Prepared By: Economic Analysis Section, System Planning Department			
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NEWFOUNDLAND & LABRADOR HYDRO
CUSTOMER COINCIDENT FACTORS

SYSTEM WINTER PEAK				COINCIDENT PEAKS		NON-COINCIDENT PEAKS		COINCIDENT FACTORS	
Year	MW	Date	Time	Hydro Rural Int	Existing Industrial	Hydro Rural Int	Existing Industrial	Hydro Rural Int	Existing Industrial
96/97	1229	Mar 10/97	8:01	64.8	96.7	81.2	103.0	0.798	0.939
97/98	1289	Jan 07/98	17:11	72.7	98.3	76.9	101.3	0.945	0.970
98/99	1295	Dec 23/98	17:46	80.2	95.8	80.2	108.3	1.000	0.885
99/00	1265	Dec 23/99	17:43	81.0	95.2	84.8	103.2	0.956	0.923
00/01	1240	Dec 24/00	17:24	79.8	88.4	80.1	103.3	0.995	0.856
01/02	1403	Jan 31/02	17:48	82.1	95.6	82.3	106.8	0.997	0.896
02/03	1402	Feb 15/03	18:03	78.9	106.0	81.3	106.5	0.970	0.995
03/04	1405	Feb 16/04	19:18	78.2	104.3	87.3	106.5	0.896	0.979
04/05	1402	Dec 6/04	16:46	82.1	84.2	82.2	106.5	0.999	0.791
05/06	1276	Jan 23/06	9:44	64.4	82.5	80.2	107.0	0.803	0.771
10 Yr. Median Value =								0.963	0.909
5 Yr. Median Value =								0.896	

Notes:

- ACCC(GF) non-coincident peaks adjusted to Power On Order excluding compensation and interruptible (coincident peaks <= firm).
- CBP&P non-coincident peaks adjusted to maximum billing excluding emergency (coincident peaks <= firm).
- 98/99 thru 00/01 ACCC(GF) based on median hourly demands from mid December to mid March.
- 01/02 ACCC(GF) and ACCC(STV) based on median hourly demands from mid December to mid March excluding extended downtime periods.
- 04/05 ACCC(GF) based on median hourly demands from December 1st thru mid March.

May, 2006

NEWFOUNDLAND & LABRADOR HYDRO CUSTOMER COINCIDENT FACTORS

NLH SYSTEM WINTER PEAK			Newfoundland Power ⁽¹⁾		
Year	MM-DD	Time	Non-Coincident Peak (MW)	Coincident Peak (MW)	Coincident Factor
96/97	Mar 10/97	8:01	1060	969	91.3%
97/98	Jan 07/98	17:11	1049	1044	99.5%
98/99	Dec 23/98	17:46	1023	1022	100.0%
99/00	Dec 23/99	17:43	996	972	97.7%
00/01	Dec 24/00	17:24	1025	1025	100.0%
01/02	Jan 31/02	17:48	1176	1175	100.0%
02/03	Feb 15/03	18:03	1118	1118	100.0%
03/04	Feb 16/04	19:18	1101	1093	99.3%
04/05 ⁽²⁾	Dec 6/04	16:46	1167	1163	99.6%
05/06	Jan 23/06	9:44	1131	1124	99.4%
10 Yr. Median Value =					99.6%

Notes:

1. Non-Coincident and Coincident peaks are NP native demands.
2. Beginning in December 2004, NP native demand recorded in NLH Monthly Peak Report (Sect. 2))

May, 2006

NEWFOUNDLAND & LABRADOR HYDRO CUSTOMER COINCIDENT FACTORS
Labrador Interconnected System

	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
Labrador East	0.88	0.88	0.86	0.90	0.90	0.90	0.80	0.80	0.90	0.90	0.90	0.88
Labrador West	0.88	0.88	0.90	0.90	0.90	0.90	0.85	0.80	0.90	0.90	0.90	0.88
IOCC	1.00	1.00	1.00	0.95	0.85	0.60	0.50	0.50	0.50	0.75	1.00	1.00

Note: Coincident factors based on monthly data for 1996-2005.

May, 2006

Operating Load Forecast Transmission and Transformation Loss Rates

Island Operating Load Forecast

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Energy	=	2.9%	2.9%	2.9%	3.2%	3.2%	3.7%	4.1%	4.1%	3.4%	3.2%	3.1%	3.0%
Demand	=	3.1%	3.1%	3.1%	3.4%	3.4%	3.9%	4.3%	4.3%	3.6%	3.4%	3.3%	3.1%

- Notes:
1. Energy loss rates based on monthly energy losses, 1996-2005
 2. Demand loss rate for Dec-Mar based on system loss analysis, System Planning Dept., Fall 2002.
Demand loss rates for Apr-Nov are proportional to energy loss rates.

Labrador Operating Load Forecast

Labrador West

Energy	=	15.0%
Demand	=	12.6%

Labrador East

Energy	=	9.0%
Demand	=	12.6%

- Notes:
1. Energy loss rates based on 1996-2005 annual energy losses for the 230kV transmission line to Labrador West and the 138kV transmission line to Labrador East.
 2. Demand loss rate based on 1995-2005 annual system peak demand losses for the Labrador Interconnected system.

**Derivation of NP Maximum Monthly Purchase Demands and NP Demand
at NLH System Peak**

2006	2007	2008	2009	2010	2011
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TABLE A - NP Native Peak (MW) (NP Energy & Demand Forecast, Spring 2006)

Jan		1203.5	1208.4	1219.4	1241.6	1263.2
Feb		1197.5	1202.3	1213.1	1235.0	1256.3
Mar		1093.5	1097.9	1107.8	1127.8	1147.3
Apr		962.9	971.6	989.1	1006.2	1024.0
May	848.0	851.4	859.1	874.6	889.7	905.4
Jun	729.0	731.9	738.5	751.9	764.8	778.4
Jul	596.4	598.8	604.2	615.1	625.7	636.8
Aug	569.1	571.4	576.6	587.0	597.1	607.7
Sep	649.7	652.3	658.2	670.0	681.6	693.7
Oct	827.1	830.5	838.0	853.1	867.8	883.2
Nov	993.9	997.9	1006.9	1025.1	1042.8	1061.2
Dec	1,175.8	1180.6	1191.2	1212.7	1233.6	1255.5

TABLE B - NP Generation⁽¹⁾⁽²⁾⁽³⁾ (MW)

Jan	82.0	82.0	84.5	84.5	84.5	84.5
Feb	82.0	82.0	84.5	84.5	84.5	84.5
Mar	82.0	82.0	84.5	84.5	84.5	84.5
Apr	82.0	82.0	84.5	84.5	84.5	84.5
May	72.4	72.4	72.4	72.4	72.4	72.4
Jun	53.3	53.3	53.3	53.3	53.3	53.3
Jul	37.3	37.3	37.3	37.3	37.3	37.3
Aug	35.0	35.0	35.0	35.0	35.0	35.0
Sep	50.0	50.0	50.0	50.0	50.0	50.0
Oct	55.0	55.0	55.0	55.0	55.0	55.0
Nov	82.0	84.5	84.5	84.5	84.5	84.5
Dec	82.0	84.5	84.5	84.5	84.5	84.5

TABLE C - NP Maximum Purchase Demand from NLH (MW)

Jan		1121.5	1123.9	1134.9	1157.1	1178.7
Feb		1115.5	1117.8	1128.6	1150.5	1171.8
Mar		1011.5	1013.4	1023.3	1043.3	1062.8
Apr		880.9	887.1	904.6	921.7	939.5
May	775.6	779.0	786.7	802.2	817.2	833.0
Jun	675.7	678.6	685.2	698.5	711.5	725.0
Jul	559.1	561.5	566.9	577.8	588.4	599.5
Aug	534.1	536.4	541.6	552.0	562.1	572.7
Sep	599.7	602.3	608.2	620.0	631.6	643.7
Oct	772.1	775.5	783.0	798.1	812.8	828.2
Nov	911.9	913.4	922.4	940.6	958.3	976.7
Dec	1093.8	1096.1	1106.7	1128.2	1149.1	1171.0

TABLE D - Demand supplied from NLH @ NLH System Peak (Coincident Factor = 0.996)

Jan		1116.7	1119.1	1130.0	1152.1	1173.6
Feb		1110.7	1113.0	1123.8	1145.6	1166.8
Mar		1007.2	1009.1	1018.9	1038.8	1058.2
Apr		877.1	883.2	900.7	917.7	935.4
May	772.2	775.6	783.2	798.7	813.7	829.4
Jun	672.7	675.7	682.2	695.5	708.4	721.9
Jul	556.7	559.1	564.5	575.3	585.9	596.9
Aug	531.9	534.1	539.3	549.6	559.7	570.3
Sep	597.1	599.7	605.5	617.4	628.9	640.9
Oct	768.8	772.1	779.6	794.7	809.3	824.6
Nov	907.9	909.4	918.4	936.5	954.1	972.5
Dec	1089.1	1091.3	1101.9	1123.3	1144.2	1165.9

Notes: TABLE C = TABLE A - TABLE B
TABLE D = (TABLE A x 0.996) - TABLE B

1. NP generation for winter peak period is assumed NP Hydro capacity available.
2. NP generation for non-winter peak period based on NLH ECC daily log data.
3. NP generation increase in late 2007 represents the upgrading of Rattling Brook hydroelectric plant.

2006 NLH Planning load Forecast for Rural Interconnected Island

		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
<u>NLH ISLAND INTERCONNECTED</u>							
DOMESTIC CUSTOMERS		19,176	19,198	19,220	19,241	19,262	19,282
AVERAGE USE	(KWh)	11,336	11,258	11,220	11,314	11,384	11,428
DOMESTIC SALES	(GWh)	217	216	216	218	219	220
	Growth Rate . . . (%)	0.0	-0.4	-0.2	0.9	0.7	0.5
GENERAL SERVICE SALES	(GWh)	136	140	141	142	142	143
	Growth Rate . . . (%)	0.8	3.0	0.2	0.9	0.3	0.2
OTHER	(GWh)	35	36	36	36	36	36
TOTAL RURAL REQUIREMENTS	(GWh)	389	392	392	395	398	399
	Growth Rate . . . (%)	0.3	0.9	-0.1	0.9	0.6	0.4
RURAL SYSTEM PEAK	(MW)	84	85	85	85	86	86
	Growth Rate . . . (%)	-0.5	0.9	-0.1	0.9	0.6	0.4
RURAL ANNUAL LOAD FACTOR	(%)	53	53	53	53	53	53

Source: Economic Analysis Section, System Planning Dept.
Feb-06

Labrador Interconnected Load Forecast Spring 2006

	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
Happy Valley - Goose Bay							
Gross Peak (kW) ¹	57,539	58,294	58,957	59,739	60,558	61,137	61,900
Net Peak (kW)	NA	NA	NA	NA	NA	NA	NA
Gross Energy (MWh) ¹	224,551	234,900	237,572	240,726	244,024	246,358	249,433
Net Energy (MWh)	NA	NA	NA	NA	NA	NA	NA
Total Sales (MWh)	214,015	223,877	226,430	229,443	232,594	234,824	237,762
Company Use (MWh)	516	541	541	541	541	541	541
Labrador City							
Gross Peak (kW) ¹	50,598	50,946	51,218	52,172	52,812	52,123	52,394
Net Peak (kW)	NA	NA	NA	NA	NA	NA	NA
Gross Energy (MWh) ¹	199,459	207,107	208,212	212,093	214,694	211,890	212,996
Net Energy (MWh)	NA	NA	NA	NA	NA	NA	NA
Total Sales (MWh)	192,613	199,999	201,066	204,814	207,326	204,618	205,686
Company Use (MWh)	0	0	0	0	0	0	0
Wabush							
Gross Peak (kW) ¹	15,126	15,251	15,412	15,544	15,609	15,741	15,902
Net Peak (kW)	NA	NA	NA	NA	NA	NA	NA
Gross Energy (MWh) ¹	59,492	62,116	62,773	63,309	63,575	64,111	64,768
Net Energy (MWh)	NA	NA	NA	NA	NA	NA	NA
Total Sales (MWh)	56,453	58,951	59,577	60,088	60,341	60,852	61,478
Company Use (MWh)	210	210	210	210	210	210	210
Labrador West Sub-Total							
Gross Peak (kW) ¹	65,724	66,197	66,630	67,716	68,421	67,863	68,297
Net Peak (kW)	NA	NA	NA	NA	NA	NA	NA
Gross Energy (MWh) ¹	258,951	269,223	270,985	275,402	278,269	276,001	277,764
Net Energy (MWh)	NA	NA	NA	NA	NA	NA	NA
Total Sales (MWh)	249,066	258,950	260,644	264,902	267,667	265,470	267,163
Company Use (MWh)	210	210	210	210	210	210	210
Labrador Interconnected							
Gross Peak (kW) ¹	123,263	124,490	125,587	127,456	128,979	129,000	130,197
Net Peak (kW)	NA	NA	NA	NA	NA	NA	NA
Gross Energy (MWh) ¹	483,502	504,122	508,557	516,128	522,293	522,359	527,197
Net Energy (MWh)	NA	NA	NA	NA	NA	NA	NA
Total Sales (MWh)	463,081	482,828	487,073	494,345	500,261	500,294	504,925
Company Use (MWh)	726	751	751	751	751	751	751

1. Gross peak or energy equates to bulk deliveries on interconnected systems.

Source: NLH, Economic Analysis

May, 2006

Island Isolated Systems Load Forecast Spring 2006							
Francois	2006	2007	2008	2009	2010	2011	2012
Gross Peak (kW)	282	284	286	289	291	293	295
Net Peak (kW)	268	270	272	275	277	279	281
Gross Energy (MWh)	921	928	934	941	948	955	962
Net Energy (MWh)	829	835	841	847	854	860	866
Total Sales (MWh)	774	780	785	791	797	803	809
Company Use (MWh)	0	0	0	0	0	0	0
Grey River							
Gross Peak (kW)	207	204	199	195	190	186	182
Net Peak (kW)	193	189	185	180	176	172	168
Gross Energy (MWh)	635	623	609	596	583	570	558
Net Energy (MWh)	506	496	486	475	464	454	444
Total Sales (MWh)	470	461	451	441	431	422	412
Company Use (MWh)	6	6	6	6	6	6	6
Little Bay Islands							
Gross Peak (kW)	729	728	724	719	715	711	707
Net Peak (kW)	713	712	708	703	699	694	690
Gross Energy (MWh)	1,755	1,752	1,742	1,731	1,721	1,710	1,700
Net Energy (MWh)	1,671	1,668	1,658	1,648	1,638	1,628	1,619
Total Sales (MWh)	1,544	1,542	1,532	1,523	1,513	1,504	1,495
Company Use (MWh)	14	14	14	14	14	14	14
McCallum							
Gross Peak (kW)	192	190	187	185	183	181	179
Net Peak (kW)	186	184	181	179	177	175	173
Gross Energy (MWh)	631	624	616	609	602	596	589
Net Energy (MWh)	571	565	558	552	546	539	533
Total Sales (MWh)	548	542	536	530	524	518	512
Company Use (MWh)	0	0	0	0	0	0	0
Ramea							
Gross Peak (kW)	1,175	1,173	1,158	1,141	1,124	1,108	1,091
Net Peak (kW)	1,145	1,144	1,128	1,112	1,095	1,078	1,062
Gross Energy (MWh)	4,143	4,138	4,082	4,025	3,965	3,906	3,847
Net Energy (MWh)	4,019	4,014	3,960	3,904	3,846	3,789	3,732
Total Sales (MWh)	3,854	3,805	3,754	3,701	3,646	3,592	3,538
Company Use (MWh)	0	0	0	0	0	0	0
Rencontre East							
Gross Peak (kW)	255	0	0	0	0	0	0
Net Peak (kW)	246	0	0	0	0	0	0
Gross Energy (MWh)	293	0	0	0	0	0	0
Net Energy (MWh)	281	0	0	0	0	0	0
Total Sales (MWh)	266	0	0	0	0	0	0
Company Use (MWh)	9	0	0	0	0	0	0

Island Isolated Systems Load Forecast Spring 2006

St. Brendans	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
Gross Peak (kW)	362	358	355	351	348	344	341
Net Peak (kW)	348	345	341	338	334	331	327
Gross Energy (MWh)	1,118	1,107	1,095	1,084	1,074	1,063	1,052
Net Energy (MWh)	1,008	998	988	978	968	959	949
Total Sales (MWh)	952	943	933	924	914	905	896
Company Use (MWh)	4	4	4	4	4	4	4
Total Island Isolated							
Gross Peak (kW)	3,203	2,938	2,909	2,880	2,851	2,823	2,795
Net Peak (kW)	3,100	2,844	2,815	2,786	2,757	2,729	2,701
Gross Energy (MWh)	9,496	9,171	9,079	8,987	8,893	8,800	8,709
Net Energy (MWh)	8,885	8,577	8,491	8,405	8,317	8,230	8,144
Total Sales (MWh)	8,409	8,073	7,991	7,909	7,826	7,744	7,663
Company Use (MWh)	33	24	24	24	24	24	24

Source: NLH, Economic Analysis
May, 2006

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Labrador Isolated Load Forecast Spring 2006							
Black Tickle	2006	2007	2008	2009	2010	2011	2012
Gross Peak (kW)	454	450	447	443	439	435	432
Net Peak (kW)	435	431	427	423	419	416	412
Gross Energy (MWh)	1,265	1,254	1,243	1,233	1,222	1,212	1202
Net Energy (MWh)	1,167	1,157	1,147	1,138	1,128	1,119	1109
Total Sales (MWh)	1,045	1,035	1,026	1,017	1,008	1,000	991
Company Use (MWh)	43	43	43	43	43	43	43
Cartwright							
Gross Peak (kW)	919	924	940	944	961	964	981
Net Peak (kW)	888	893	909	913	930	933	950
Gross Energy (MWh)	4,167	4,186	4,261	4,277	4,353	4,369	4444
Net Energy (MWh)	3,985	4,004	4,076	4,091	4,163	4,178	4251
Total Sales (MWh)	3,812	3,829	3,898	3,913	3,982	3,996	4065
Company Use (MWh)	0	0	0	0	0	0	0
Charlottetown							
Gross Peak (kW)	1,459	1,482	1,493	1,517	1,527	1,551	1561
Net Peak (kW)	1,408	1,432	1,443	1,467	1,477	1,501	1511
Gross Energy (MWh)	5,141	5,225	5,262	5,346	5,383	5,467	5504
Net Energy (MWh)	4,894	4,973	5,009	5,089	5,124	5,204	5239
Total Sales (MWh)	4,680	4,756	4,790	4,867	4,901	4,977	5010
Company Use (MWh)	0	0	0	0	0	0	0
Hopedale							
Gross Peak (kW)	759	783	795	804	816	825	837
Net Peak (kW)	719	743	755	764	776	785	797
Gross Energy (MWh)	3,473	3,582	3,637	3,678	3,732	3,773	3828
Net Energy (MWh)	3,277	3,367	3,418	3,457	3,508	3,546	3598
Total Sales (MWh)	3,135	3,221	3,270	3,307	3,356	3,393	3442
Company Use (MWh)	0	0	0	0	0	0	0
L'anse au Loup							
Gross Peak (kW)	3,815	3,868	3,922	3,977	4,032	4,088	4145
Net Peak (kW)	3,686	3,740	3,794	3,849	3,904	3,960	4016
Gross Energy (MWh)	17,118	17,359	17,603	17,848	18,096	18,347	18599
Net Energy (MWh)	16,643	16,884	17,127	17,373	17,621	17,871	18124
Total Sales (MWh)	15,344	15,567	15,792	16,019	16,248	16,480	16713
Company Use (MWh)	47	47	47	47	47	47	47
Makkovik							
Gross Peak (kW)	698	701	710	744	753	775	784
Net Peak (kW)	656	658	668	701	711	732	742
Gross Energy (MWh)	3,274	3,286	3,331	3,489	3,534	3,634	3678
Net Energy (MWh)	3,039	3,050	3,091	3,237	3,279	3,373	3413
Total Sales (MWh)	2,838	2,896	2,936	3,075	3,114	3,203	3242
Company Use (MWh)	1	1	1	1	1	1	1

Labrador Isolated Load Forecast Spring 2006							
Mary's Harbour	2006	2007	2008	2009	2010	2011	2012
Gross Peak (kW)	867	876	897	906	910	920	924
Net Peak (kW)	836	845	866	875	879	889	893
Gross Energy (MWh)	3,910	3,949	4,044	4,084	4,106	4,147	4169
Net Energy (MWh)	3,709	3,747	3,837	3,874	3,895	3,934	3955
Total Sales (MWh)	3,494	3,530	3,615	3,651	3,671	3,708	3728
Company Use (MWh)	26	26	26	26	26	26	26
Nain							
Gross Peak (kW)	1,378	1,464	1,498	1,533	1,568	1,603	1639
Net Peak (kW)	1,312	1,398	1,432	1,467	1,502	1,537	1573
Gross Energy (MWh)	6,442	6,844	7,004	7,167	7,330	7,496	7662
Net Energy (MWh)	6,197	6,584	6,739	6,895	7,052	7,211	7372
Total Sales (MWh)	5,876	6,243	6,389	6,538	6,687	6,838	6990
Company Use (MWh)	1	1	1	1	1	1	1
Natuashish							
Gross Peak (kW)	1,497	1,515	1,519	1,544	1,580	1,609	1640
Net Peak (kW)	1,450	1,468	1,472	1,497	1,533	1,562	1593
Gross Energy (MWh)	6,807	6,894	6,917	6,995	7,123	7,256	7393
Net Energy (MWh)	6,545	6,629	6,651	6,726	6,849	6,977	7109
Total Sales (MWh)	6,145	6,224	6,245	6,316	6,431	6,551	6675
Company Use (MWh)	0	0	0	0	0	0	0
Norman Bay							
Gross Peak (kW)	51	52	52	51	52	51	50
Net Peak (kW)	48	49	49	48	49	48	47
Gross Energy (MWh)	180	182	180	178	180	178	175
Net Energy (MWh)	162	164	162	160	162	160	158
Total Sales (MWh)	142	144	142	140	142	140	138
Company Use (MWh)	9	9	9	9	9	9	9
Paradise River							
Gross Peak (kW)	35	35	35	35	35	36	35
Net Peak (kW)	28	28	28	29	29	29	29
Gross Energy (MWh)	118	117	118	119	120	121	120
Net Energy (MWh)	80	80	80	81	81	82	81
Total Sales (MWh)	69	68	69	69	70	70	70
Company Use (MWh)	0	0	0	0	0	0	0
Port Hope Simpson							
Gross Peak (kW)	743	758	786	802	830	846	862
Net Peak (kW)	718	733	762	777	806	822	838
Gross Energy (MWh)	3,063	3,125	3,243	3,306	3,424	3,490	3555
Net Energy (MWh)	2,877	2,934	3,046	3,104	3,216	3,277	3338
Total Sales (MWh)	2,764	2,819	2,926	2,983	3,090	3,149	3207
Company Use (MWh)	0	0	0	0	0	0	0

Labrador Isolated Load Forecast Spring 2006							
Postville	2006	2007	2008	2009	2010	2011	2012
Gross Peak (kW)	335	344	353	358	368	373	383
Net Peak (kW)	320	329	338	343	353	358	368
Gross Energy (MWh)	1,519	1,561	1,602	1,628	1,670	1,696	1739
Net Energy (MWh)	1,446	1,486	1,525	1,549	1,590	1,614	1655
Total Sales (MWh)	1,358	1,379	1,417	1,439	1,477	1,500	1538
Company Use (MWh)	14	14	14	14	14	14	14
Rigolet							
Gross Peak (kW)	575	583	597	605	621	628	643
Net Peak (kW)	562	569	584	592	607	615	630
Gross Energy (MWh)	2,222	2,251	2,308	2,339	2,398	2,427	2486
Net Energy (MWh)	2,158	2,186	2,241	2,271	2,329	2,357	2413
Total Sales (MWh)	2,062	2,089	2,143	2,172	2,228	2,255	2310
Company Use (MWh)	31	31	31	31	31	31	31
St. Lewis							
Gross Peak (kW)	500	496	491	487	483	479	476
Net Peak (kW)	461	457	452	448	444	440	437
Gross Energy (MWh)	1,803	1,788	1,774	1,759	1,745	1,730	1716
Net Energy (MWh)	1,627	1,614	1,600	1,587	1,574	1,562	1549
Total Sales (MWh)	1,490	1,477	1,465	1,452	1,440	1,428	1417
Company Use (MWh)	27	27	27	27	27	27	27
William's Harbour							
Gross Peak (kW)	110	108	107	107	107	106	106
Net Peak (kW)	100	98	97	97	97	96	96
Gross Energy (MWh)	417	409	408	407	405	404	403
Net Energy (MWh)	363	357	355	354	353	352	351
Total Sales (MWh)	310	309	308	307	306	305	304
Company Use (MWh)	23	23	23	23	23	23	23
Total Labrador Isolated							
Gross Peak (kW)	14,194	14,436	14,644	14,857	15,083	15,290	15,498
Net Peak (kW)	13,627	13,869	14,076	14,290	14,516	14,723	14,931
Gross Energy (MWh)	60,920	62,012	62,935	63,851	64,823	65,746	66,673
Net Energy (MWh)	58,169	59,213	60,104	60,987	61,926	62,817	63,715
Total Sales (MWh)	54,563	55,587	56,431	57,264	58,151	58,992	59,840
Company Use (MWh)	220	220	220	220	220	220	220
Total Labrador Isolated less L'Anse au Loup							
Gross Peak (kW)	10,380	10,568	10,721	10,880	11,050	11,202	11353
Net Peak (kW)	9,941	10,129	10,282	10,441	10,611	10,763	10915
Gross Energy (MWh)	43,801	44,653	45,333	46,003	46,727	47,399	48074
Net Energy (MWh)	41,526	42,329	42,977	43,614	44,305	44,946	45591
Total Sales (MWh)	39,219	40,020	40,639	41,245	41,903	42,512	43126
Company Use (MWh)	174	174	174	174	174	174	174
Total Labrador Isolated less L'Anse au Loup & Natuashish							
Gross Peak (kW)	8,883	9,053	9,202	9,335	9,470	9,593	9,714
Net Peak (kW)	8,491	8,662	8,810	8,944	9,079	9,201	9,322
Gross Energy (MWh)	36,995	37,759	38,416	39,008	39,604	40,143	40,681
Net Energy (MWh)	34,981	35,700	36,327	36,888	37,456	37,969	38,483
Total Sales (MWh)	33,073	33,796	34,394	34,929	35,472	35,961	36,452
Company Use (MWh)	174	174	174	174	174	174	174