

October 25<sup>th</sup>, 2013

Ms. Kirsten Walli  
Board Secretary  
Ontario Energy Board  
Suite 2700, 2300 Yonge Street  
Toronto, Ontario  
M4P 1E4

Dear Ms. Walli:

**RE: Union Gas Limited (“Union”) - Undertakings  
EB-2013-0109**

Please find attached Union’s responses to the following Undertakings in the above captioned proceeding:

J1.1; J1.4; J1.5; J1.7; J1.8; J2.1; J2.3

Yours truly,

*[original signed by]*

Vanessa Innis  
Manager, Regulatory Initiatives

Encl.

cc: Crawford Smith, Torys  
All intervenors

UNION GAS LIMITED

Undertaking of Mr. Tetreault

To Mr. Aiken

Please provide an additional column in the responses to Exhibit No. D2.20 that shows the impact and the same level of detail as shown in Attachment 1 with no change to the deferral and variance-accounts allocation, but with the Earnings Sharing based on the 2011 approved methodology for the FT-RAM Optimization account.

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Please see Attachment 1.

UNION GAS LIMITED								Earnings Sharing Based on FT-RAM Allocation	
Calculation of 2012 Deferral Impacts by Rate Class									
Line No.	Rate Class	Particulars (\$)	Consumption (10 <sup>3</sup> m <sup>3</sup> )	Earnings Sharing	FT-RAM Deferral	Difference	Methodology	Difference	
			(a)	(b)	(c)	(d)	(f)	(g) = (f-c)	
						(e) = (d-c)			
<b>Union South</b>									
1	M1	Sales Service		1,985,247 (1)	4,008,467	(4,936,769)	(8,945,237)	2,677,443	(1,331,024)
2		Direct Purchase		247,631 (1)	266,330	966,506	700,175	966,506	700,175
3				2,232,879 (1)	4,274,798	(3,970,263)	(8,245,061)	3,643,949	(630,849)
4	M2	Sales Service		412,655 (1)	1,070,472	(1,459,254)	(2,529,726)	123,443	(947,029)
5		Direct Purchase		385,090 (1)	635,587	1,098,844	463,257	1,098,844	463,257
6				797,745 (1)	1,706,059	(360,410)	(2,066,469)	1,222,287	(483,772)
7	M4	Sales Service	15	20,353 (2)	97,564	30,845	(66,719)	72,093	(25,471)
8		Direct Purchase	146	408,288 (2)	1,753,575	1,997,268	243,693	1,997,268	243,693
9			161	428,641 (2)	1,851,140	2,028,113	176,973	2,069,361	218,222
10	M5	Sales Service	10	19,039 (2)	21,573	(45,849)	(67,423)	(7,265)	(28,838)
11		Direct Purchase	134	451,207 (2)	286,303	436,827	150,524	436,827	150,524
12			144	470,246 (2)	307,876	390,978	83,102	429,563	121,686
13	M7	Direct Purchase	4	141,165 (2)	(361,267)	(202,623)	158,644	(202,623)	158,644
14			4	141,165 (2)	(361,267)	(202,623)	158,644	(202,623)	158,644
15	M9	Direct Purchase	3	57,878 (2)	(3,960)	9,330	13,291	9,330	13,291
16			3	57,878 (2)	(3,960)	9,330	13,291	9,330	13,291
17	M10	Sales Service	3	118 (2)	20	(59)	(79)	180	160
18		Direct Purchase	1	79 (2)	(26)	228	254	228	254
19			4	197 (2)	(6)	169	175	408	414
20	T1	Direct Purchase	60	5,023,637 (2)	1,956,488	2,734,706	778,218	2,734,706	778,218
21			60	5,023,637 (2)	1,956,488	2,734,706	778,218	2,734,706	778,218
22	T3	Direct Purchase	1	239,361 (2)	3,876	97,624	93,748	97,624	93,748
23			1	239,361 (2)	3,876	97,624	93,748	97,624	93,748
24		<b>Total Sales Service</b>			<b>5,198,097</b>	<b>(6,411,086)</b>	<b>(11,609,183)</b>	<b>2,865,895</b>	<b>(2,332,202)</b>
25		<b>Total Direct Purchase</b>			<b>4,536,906</b>	<b>7,138,710</b>	<b>2,601,804</b>	<b>7,138,710</b>	<b>2,601,804</b>
26		<b>Total Union South (line 24 + line 25)</b>			<b>9,735,003</b>	<b>727,624</b>	<b>(9,007,380)</b>	<b>10,004,605</b>	<b>269,602</b>
<b>Union North</b>									
27	Rate 01	Sales Service & Bundled T		714,975 (1)	(5,131,651)	(11,907,714)	(6,776,063)	(6,950,772)	(1,819,121)
28				714,975 (1)	(5,131,651)	(11,907,714)	(6,776,063)	(6,950,772)	(1,819,121)
29	Rate 10	Sales Service & Bundled T		241,642 (1)	(2,463,032)	(5,819,038)	(3,356,006)	(3,803,192)	(1,340,159)
30		T-Service		427 (1)	(2,823)	(1,943)	880	(1,943)	880
31				242,068 (1)	(2,465,855)	(5,820,981)	(3,355,126)	(3,805,134)	(1,339,279)
32	Rate 20	Sales Service	2	6,471 (2)	(1,992)	(101,753)	(99,761)	(48,241)	(46,249)
33		Bundled DP	18	96,026 (2)	(29,558)	(1,509,969)	(1,480,411)	(715,876)	(686,318)
34		T-Service	36	552,219 (2)	458,914	676,916	218,003	676,916	218,003
35			56	654,716 (2)	427,364	(934,806)	(1,362,170)	(87,201)	(468,315)
36	Rate 100	T-Service	17	1,912,232 (2)	374,384	716,413	342,029	716,413	342,029
37			17	1,912,232 (2)	374,384	716,413	342,029	716,413	342,029
38	Rate 25	Sales Service	58	44,659 (2)	(18,576)	(280,969)	(262,394)	(130,686)	(112,110)
39		T-Service	43	162,978 (2)	(67,790)	23,267	91,058	23,267	91,058
40			101	207,636 (2)	(86,366)	(257,702)	(171,336)	(107,418)	(21,052)
41		<b>Total Sales Service &amp; Bundled T</b>			<b>(7,644,809)</b>	<b>(19,619,444)</b>	<b>(11,974,635)</b>	<b>(11,648,766)</b>	<b>(4,003,957)</b>
42		<b>Total T-Service</b>			<b>762,685</b>	<b>1,414,654</b>	<b>651,090</b>	<b>1,414,654</b>	<b>651,970</b>
43		<b>Total Union North (line 41 + line 42)</b>			<b>(6,882,124)</b>	<b>(18,204,789)</b>	<b>(11,323,545)</b>	<b>(10,234,112)</b>	<b>(3,351,988)</b>
44		<b>Total Infranchise (line 26 + line 43)</b>			<b>2,852,879</b>	<b>(17,477,166)</b>	<b>(20,330,925)</b>	<b>(229,507)</b>	<b>(3,082,386)</b>
<b>Ex-Franchise</b>									
45	Rate M12				(2,626,936)	438,461	3,065,397	438,461	3,065,397
46	Rate M13				(2,714)	(340)	2,374	(340)	2,374
47	Rate M16	(3)			(2,487)	844	3,331	844	3,331
48	Rate C1	(3)			(21,649)	(10,364)	11,285	(10,364)	11,285
49		<b>Total Ex-Franchise</b>			<b>(2,653,786)</b>	<b>428,600</b>	<b>3,082,386</b>	<b>428,600</b>	<b>3,082,386</b>
50		<b>Total Company (line 44 + line 49)</b>			<b>199,093</b>	<b>(17,048,566)</b>	<b>(17,248,539)</b>	<b>199,093</b>	<b>-</b>

**Notes:**

- (1) Based on forecast consumption for the period October 1, 2013 to March 31, 2014.
- (2) Based on 2012 actual annual volume.
- (3) Correction columns (c) to (e) in Exhibit D2.20 to reflect incorrectly labeled Rate M16 and Rate C1 amounts.

UNION GAS LIMITED

Undertaking of Mr. Tetreault  
To Mr. Thompson

Please provide the number of manufacturers in various rate classes.

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Please refer to Attachment 1 for Interrogatory J.C-3-14-1 from the EB-2011-0210 proceeding.

UNION GAS LIMITED

Answer to Interrogatory from  
Canadian Manufacturers & Exporters (“CME”)

Ref: Exhibit C1, Tab 1  
Exhibit C1, Summary Schedules 1, 2, 3 and 4

With respect to the “Volume Comparison by Market Sector”, for the period 2007 through to 2013 shown in Tables 1 and 2 of Exhibit C1, Tab 2 and the “Volume Comparison by Rate Class” shown in Table 3 of Exhibit C1, Tab 2, please provide the following additional information:

- a) Add a column to each of Tables 1, 2 and 3 to show the number of customers in 2013 in each market sector and each rate class;
- b) For each market sector and for 2013 only, please provide an estimate of the number of customers, the volume, and the revenue that is attributable to customers that Union would classify as manufacturers;

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**Response:**

- a) and b) Please see Attachment 1, Attachment 2 and Attachment 3. Customer numbers are as forecast at December 31, 2013.

Volume Comparison by Market Sector  
2007 Board-Approved through 2013 Forecast

(10<sup>6</sup>m<sup>3</sup>)

<u>Market Sector</u>	Board-	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
	approved	2007	2008	2009	2010	2011	2012	2013	Volume	Volume	Customer #	Customer #
	2007	2007	2008	2009	2010	2011	2012	2013	Not	MFG	Not	MFG
									MFG	MFG	MFG	MFG
1 Power	1,831	2,078	1,659	1,854	2,349	2,464	2,215	2,189	2,189	0	28	0
2 Steel/Chemical/Refinery	3,374	3,272	3,523	2,971	3,271	3,582	3,866	3,734	0	3,734	0	34
3 LCI/Key	2,825	2,806	2,697	2,218	2,163	2,180	2,110	2,117	522	1,596	109	227
4 Greenhouse	146	173	203	197	246	287	303	315	315	0	101	0
5 Wholesale/REM	346	297	305	319	315	324	330	334	334	0	6	0
6 Totals <sup>(1)</sup>	8,521	8,625	8,386	7,560	8,344	8,837	8,824	8,689	3,359	5,329	244	261

(1) Excludes MAV Volumes

Revenue Comparison by Market Sector  
2007 Board-Approved through 2013 Forecast  
 (\$ Millions)

Line No.	Market Sector	Board-approved 2007	Actual 2007	Actual 2008	Actual 2009	Actual 2010	Actual 2011	Forecast 2012	Forecast 2013	Forecast Revenue Not MFG 2013	Forecast Revenue MFG 2013	Forecast Customer # Not MFG 2013	Forecast Customer # MFG 2013
1	Power	23.5	26.8	26.3	29.0	32.2	32.7	29.7	29.5	29.5	0.0	28	0
2	Steel/Chemical/Refinery	37.2	38.5	37.7	37.0	36.7	38.4	36.1	35.5	0.0	35.5	0	34
3	LCI/Key	44.8	45.1	43.9	39.5	36.8	36.4	35.2	34.7	10.2	24.5	109	227
4	Greenhouse	4.0	3.9	5.2	4.9	5.8	6.3	6.2	6.5	6.5	0.0	101	0
5	Wholesale/REM	<u>6.2</u>	<u>5.5</u>	<u>5.7</u>	<u>5.8</u>	<u>5.7</u>	<u>5.5</u>	<u>5.4</u>	<u>5.4</u>	<u>5.4</u>	<u>0.0</u>	<u>6</u>	<u>0</u>
6	Totals <sup>(1)</sup>	<u>115.7</u>	<u>119.8</u>	<u>118.8</u>	<u>116.2</u>	<u>117.2</u>	<u>119.2</u>	<u>112.6</u>	<u>111.6</u>	<u>51.6</u>	<u>59.9</u>	<u>244</u>	<u>261</u>

(1) 2007 actual to 2013 Revenue is calculated using Q1, 2011 Rates.

Volume Comparison by Rate Class  
 2007 Board-Approved through 2013

Forecast  
 (10<sup>6</sup>m<sup>3</sup>)

Line No.	Rate Class	Board-approved 2007	Actual 2007	Actual 2008	Actual 2009	Actual 2010	Actual 2011	Forecast 2012	Forecast 2013	Forecast Volume Not MFG 2013	Forecast Volume MFG 2013	Forecast Customer # Not MFG 2013	Forecast Customer # MFG 2013
1	100	2,203	2,015	1,964	1,806	1,883	1,892	1,904	1,891	896	995	6	11
2	20	505	451	481	557	546	645	569	610	390	220	30	33
3	25	101	424	308	200	220	158	133	129	48	82	35	57
4	T1	4,232	3,831	3,757	3,446	4,102	4,607	4,814	4,666	81	300	17	47
5	M7	278	584	554	309	315	258	149	147	363	168	1	3
6	M4	452	520	519	446	439	442	409	380	1,196	3,471	38	77
7	M5	405	504	498	476	525	511	519	531	52	95	111	33
8	Other (T3,M9,M10)	<u>346</u>	<u>296</u>	<u>305</u>	<u>319</u>	<u>315</u>	<u>324</u>	<u>330</u>	<u>334</u>	<u>334</u>	<u>0</u>	<u>6</u>	<u>0</u>
9	Totals <sup>(1)</sup>	<u>8,521</u>	<u>8,625</u>	<u>8,386</u>	<u>7,560</u>	<u>8,345</u>	<u>8,837</u>	<u>8,827</u>	<u>8,688</u>	<u>3,359</u>	<u>5,329</u>	<u>244</u>	<u>261</u>

(1) Excludes MAV Volumes



UNION GAS LIMITED

Undertaking of Ms. Elliott  
To Ms. Sebalj

Please provide a breakdown of costs for financial statements, including broken down quarterly and annually.

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<u>Line No.</u>	<u>Particulars (\$)</u>	<u>2012 Actual</u>
	<b><u>Deloitte Invoices - Audit &amp; Interim</u></b>	
1	Q1 Interim Financial Statements *	32,100
2	Q2 Interim Financial Statements *	32,995
3	Q3 Interim Financial Statements *	32,590
4	Annual Audit *	405,015
5	French Translation Fee	<u>74,475</u>
6	<b>Total</b>	<b><u>\$577,175</u></b>

Note

\* Includes out of pocket expenses.

UNION GAS LIMITED

Undertaking of Ms. Piett  
To Mr. Quinn

To determine how the 43,921 number was transacted for the day.

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Per Exhibit D8.42 (Line 3, Column G) on January 20<sup>th</sup>, 2012, 43,921 GJ of EDA contracted daily capacity was released for S&T transportation exchange or assignment. This quantity is comprised of the following:

<b>Type of Transportation Exchange</b>	<b>Quantity (GJ)</b>
Sold as Base Exchanges	90
Sold as RAM Exchanges	43,831
Capacity Assignment	0
<b>TOTAL</b>	<b>43,921</b>

As shown above, there was no capacity assignment of Empress- Union EDA capacity for the month of January, 2012. RAM exchange transactions were completed on an interruptible basis for terms of less than one month using temporary surplus capacity. Since these transactions are interruptible in nature, if a design day were to occur, Union would interrupt this optimization activity and flow the gas directly to the Union EDA on a firm basis as per the Gas Supply Plan (i.e. temporary surplus capacity did not materialize on design day).

There was discussion in the oral hearing (Volume 2, Page 148 line 8 to Page 150 line 1) regarding the market requirement in Exhibit D8.42 (Column e, Line 3). The market requirement is confirmed to be 122 TJ.

UNION GAS LIMITED

Undertaking of Ms. Piett  
To Mr. Quinn

To provide the Column G amount for 2010 and 2011 and isolated to the day of January 23<sup>rd</sup>, 2011.

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Per D8.42 (Column G), EDA contracted daily capacity was released for S&T transportation exchanges or assignments, as detailed below for January 23, 2011 and January 28, 2010:

<b>Type of Transportation Exchange</b>	<b>Jan 23, 2011 (GJ)</b>	<b>Jan 28, 2010 (GJ)</b>
Sold as Base Exchanges	1,171	14,000
Sold as RAM Exchanges	0	0
Capacity Assignment	20,000	20,000
<b>TOTAL</b>	<b>21,171</b>	<b>34,000</b>

The capacity assignments were annual agreements. Union did not complete any annual assignments beyond October, 2011.

UNION GAS LIMITED

Undertaking of Ms. Piett  
To Ms. Sebalj

To list the transactions and their value that occurred in March and November to the EDA within Line 6.

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Line 6 on Table 1 of Exhibit B, Tab 2 (Page 9) identifies revenue of \$25.9 million for Transportation Assignments (Summer). This includes \$0.7 million for a transportation assignment of Empress – Union EDA capacity for the month of March. There were no transportation assignments for the Union EDA for the month of November.

Union notes there were also no transportation assignments of the Empress – Union EDA capacity in January, February or December of 2012.

UNION GAS LIMITED

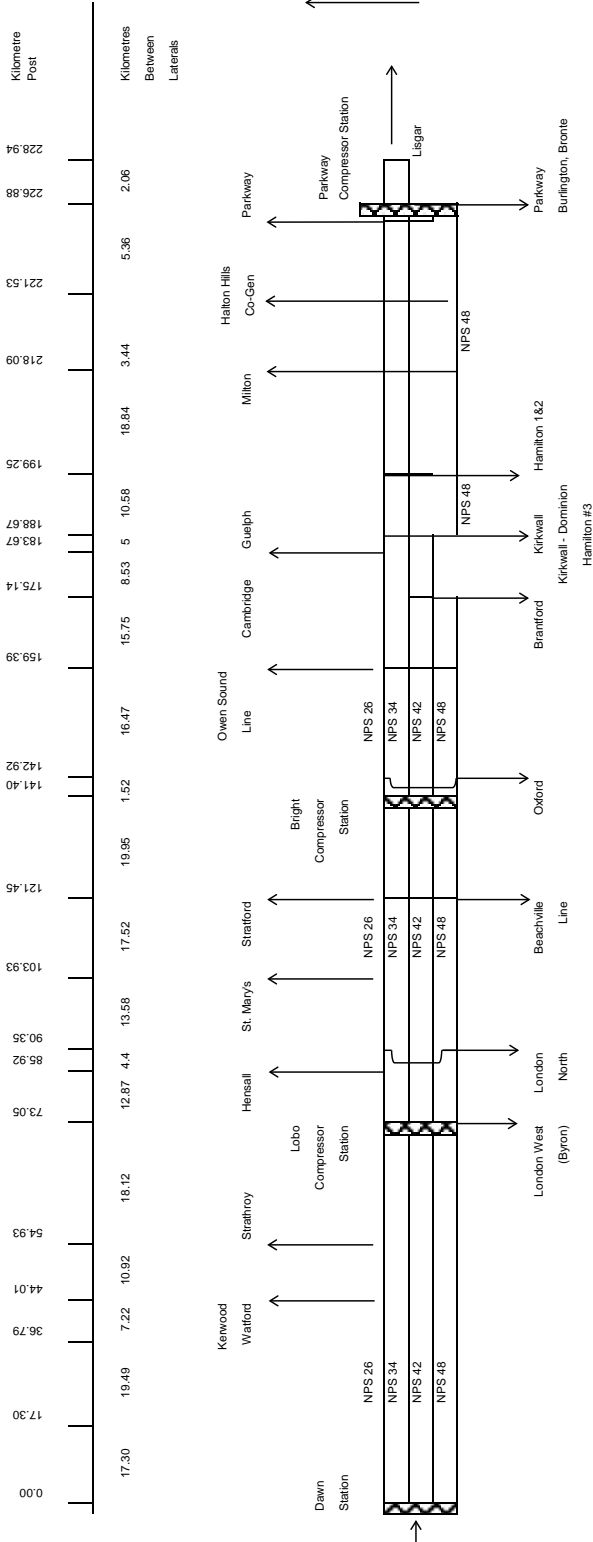
Undertaking of Mr. Wood  
To Mr. Brett

To provide transmission line map for Union South franchise.

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Please see Attachment 1 for Schedules 8-1 and 8-2 that were filed in EB-2013-0074.

DAWN TO PARKWAY SYSTEM



**Design Day Demands**

	(GJ/d)
<b>Southern Ontario</b>	
Southern Ontario	6943
Forest, Watford	7716
Stratthroy	110641
London West	28569
Hensall	95825
London North	6384
St. Mary's	35714
Stratford	51808
Beachville	42634
Oxford Line	233987
Owen Sound Line	69021
Cambridge	97294
Brantford	81571
Kirkwall - Dominion	80392
Guelph	59699
Hamilton 3	254837
Hamilton 1&2	71134
Milton	139754
Halton Hills	35050
Parkway (Greenbelt)	137951
Burlington, Bronte	1,646,924
<b>Total Southern Ontario</b>	262,587
<b>North and Eastern Ontario</b>	
Kirkwall	549,555
Parkway TCPL	2,545,943
Parkway Cons/Lisgar	1,638,085
<b>Total M12</b>	4,733,583
<b>Total Design Day Demands</b>	<b>6,643,094</b>

**System Capacity**

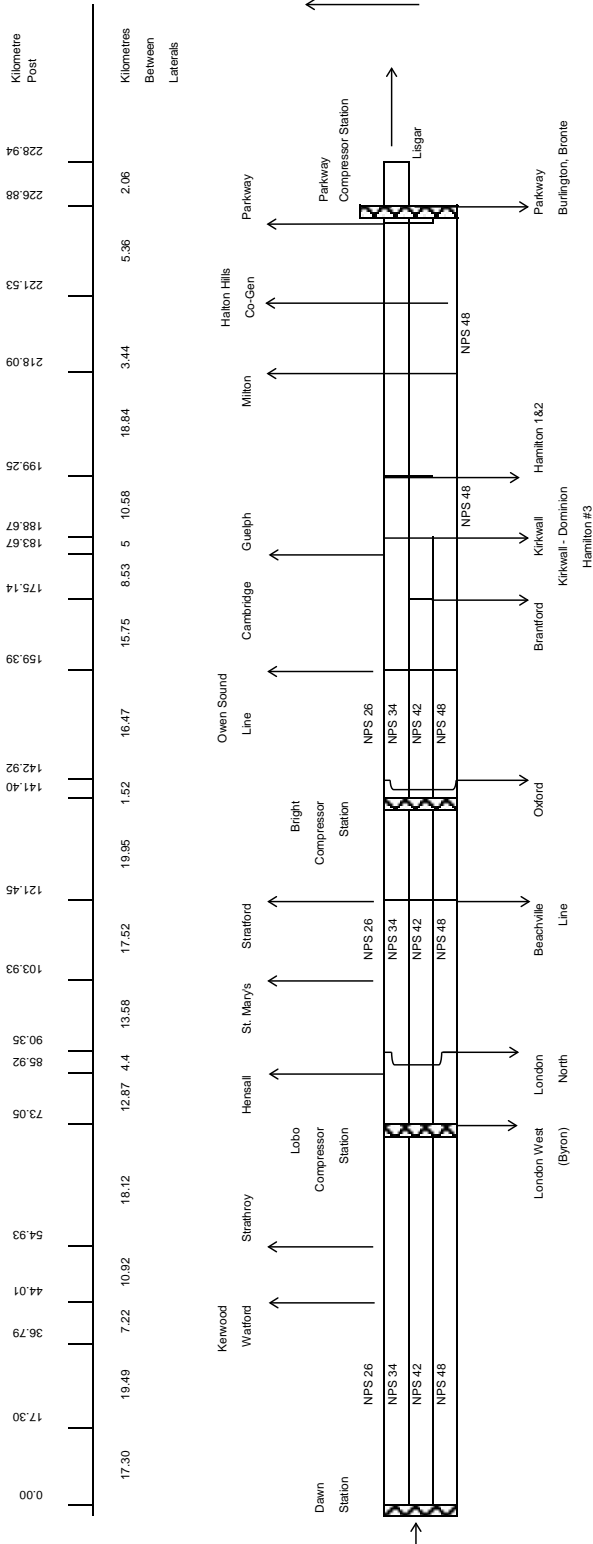
	(GJ/d)
<b>Total System Capacity</b>	<b>6,800,934</b>
(Including Firm Services)	
Receipts of	638,626 GJ/d
<b>Total Requirements</b>	<b>6,643,094</b>
<b>Total (Shortfall) Surplus</b>	<b>157,840</b>
Union Markets	
M12 Transportation	
Kirkwall	
Lisgar, Parkway	157,840

**Compressor Stations Operating Conditions at Peak Hour**

STATION	LOBO	BRIGHT	PARKWAY
Power Available (MW)	36.8	91.9	52.9
Power Required (MW)	36.8	91.9	52.9
Pressure			
Suction (kPa)	4,446	3,780	3,590
Discharge (kPa)	5,219	5,880	6,453
Compression Ratio	1.17	1.56	1.80
Flow (GJ/d)	5,939,560	5,849,380	2,465,340
Daily Fuel (GJ/d)	11,512	23,233	12,657

WINTER DESIGN DAY  
 DAWN-PARKWAY SYSTEM  
 WINTER 2014/15

DAWN TO PARKWAY SYSTEM



**Design Day Demands**

	(GJ/d)
<b>Southern Ontario</b>	
Forest, Watford	6943
Stratthroy	7716
London West	110641
Hensall	28569
London North	95825
St. Mary's	6384
Stratford	35714
Beachville	51808
Oxford Line	42634
Owen Sound Line	233987
Cambridge	69021
Brantford	97294
Kirkwall - Dominion	81571
Guelph	80392
Hamilton 3	59699
Hamilton 1&2	254837
Milton	71134
Halton Hills	139754
Parkway (Greenbelt)	35050
Burlington, Bronte	137951
<b>Total Southern Ontario</b>	<b>1,646,924</b>
<b>North and Eastern Ontario</b>	<b>332,744</b>
Kirkwall	354,023
Parkway TCPL	3,581,727
Parkway Cons/Lisgar	1,238,085
<b>Total M12</b>	<b>5,173,835</b>
<b>Total Design Day Demands</b>	<b>7,153,503</b>

**System Capacity**

	(GJ/d)
<b>Total System Capacity</b>	<b>7,029,940</b>
(Including Firm Services)	
Receipts of	638,626 GJ/d
<b>Total Requirements</b>	<b>7,153,503</b>
<b>Total (Shortfall) Surplus</b>	<b>-123,563</b>
Union Markets	
M12 Transportation	
Kirkwall	
Lisgar, Parkway	-123,563

**Compressor Stations Operating Conditions at Peak Hour**

STATION	LOBO	BRIGHT	PARKWAY
Power Available (MW)	36.8	91.9	87.9
Power Required (MW)	36.8	91.9	75.0
Pressure			
Suction (kPa)	4,488	3,653	3,513
Discharge (kPa)	5,229	5,616	6,453
Compression Ratio	1.17	1.54	1.84
Flow (GJ/d)	6,077,691	5,783,356	3,290,020
Daily Fuel (GJ/d)	11,513	23,538	17,288

WINTER DESIGN DAY  
 DAWN-PARKWAY SYSTEM  
 WINTER 2015/16