

**PUB/Centra I-001(a)**

**Reference: Section 3.0 p. 2, 3**

**(a) Please provide a more fulsome narrative that explains the causes of the \$46.7 million Supplemental Gas PGVA balance.**

**ANSWER:**

Section 3.0, page 4 of the Application, describes the \$3.2 million and \$42.3 million balances owing to Centra relating to the 2012/13 and 2013/14 Supplemental Gas PGVA's respectively, for a total Supplemental Gas PGVA balance owing to Centra of \$45.5 million. The remaining \$1.2 million balance owing to Centra pertains to the Supplemental Gas component of the remaining residual balance in the July 31, 2013 Prior Period Gas Deferrals Account, that itself was comprised of balances accumulated prior to the 2012/13 gas year, where the associated rate riders were removed effective August 1, 2014.

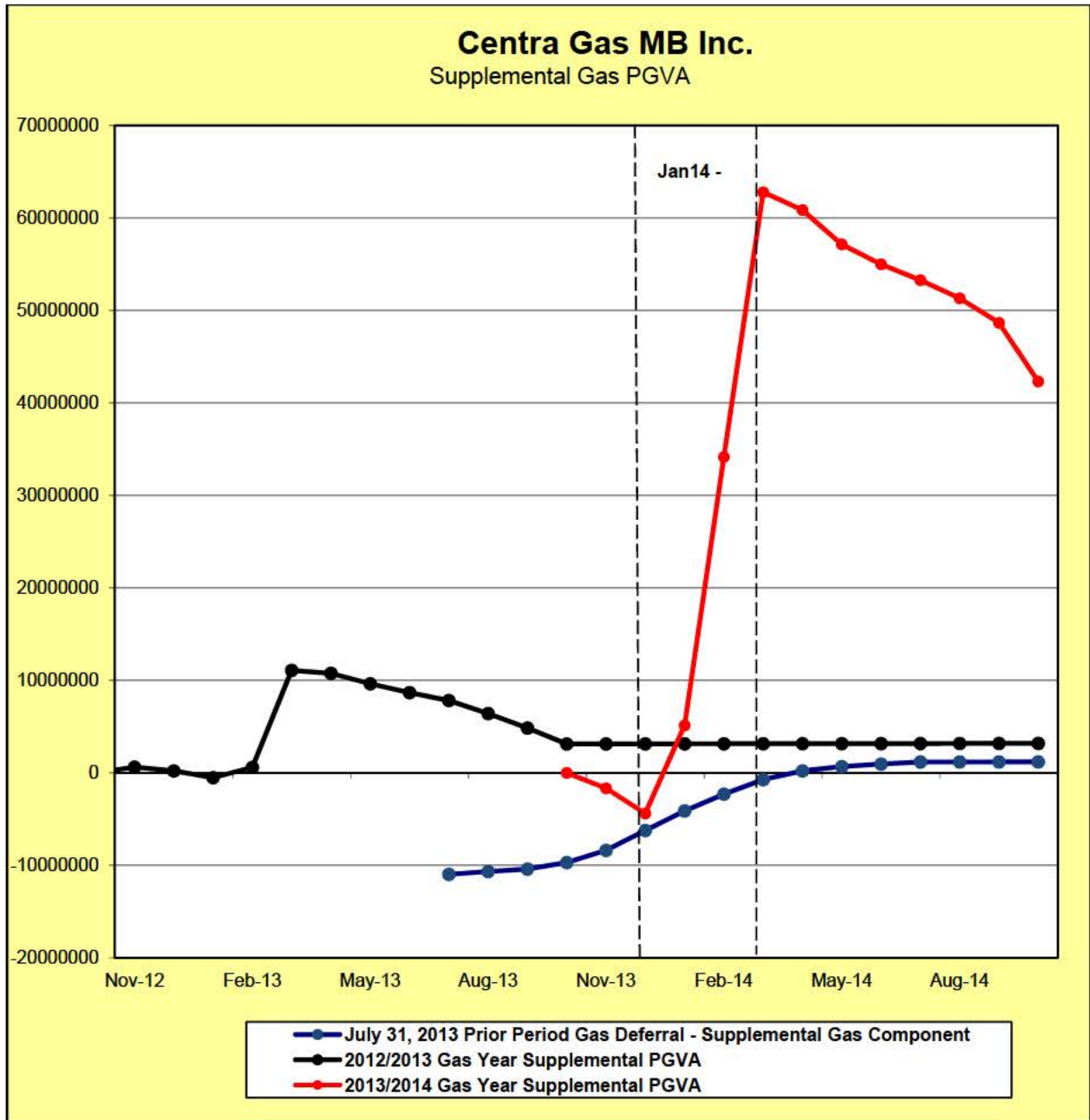
The 2012/13 Supplemental Gas PGVA balance of \$3.2 million owing from customers was almost exclusively the result of higher than forecast Supplemental Gas purchases made during October 2013 as a result of colder than normal weather.

Due to extremely cold weather conditions during the January through March 2014 period, Centra purchased approximately 10.9 million GJ of Supplemental Gas supplies to serve its customers' needs (not including Alternate Supply Service for curtailed Interruptible customers). The overall average unit cost of these supplies was \$8.04/GJ. The approved Weighted Average Cost of Gas ("WACOG") embedded in Centra's approved Firm Supplemental Gas base rate during this period was \$4.21/GJ. This difference between the January through March 2014 average unit cost of Centra's Supplemental Gas purchases and the WACOG embedded in Centra's Firm Supplemental Gas base rate (i.e.,  $\$8.04/\text{GJ} - \$4.21/\text{GJ} = \underline{\$3.83/\text{GJ}}$ ), times the approximately 10.9 million GJ's of Supplemental gas purchases for customers (i.e.,  $\$3.83/\text{GJ} \times 10,900,000$ ), accounts for virtually the entirety of the \$42.3 million projected Supplemental PGVA balance owing to Centra at October 31, 2014.

The accumulation of the 2013/14 Supplemental Gas PGVA balance was predominantly the result of dramatic increases in winter natural gas prices at market hubs served either directly or indirectly by the TCPL Mainline, which were driven to a significant degree by TransCanada Pipeline's ("TCPL") exercise of the unfettered pricing discretion granted to it by the National

Energy Board (“NEB”) beginning on July 1, 2013. During the months of January through March 2014, TCPL set its minimum IT bid floors as high as 55 times its daily equivalent firm Mainline transportation tolls. These high IT bid floors contributed to high prices at Mainline hubs such as Emerson, as well as other hubs in the region including MichCon and Chicago.

Centra has provided the following chart that illustrates the accumulation of the various supplemental PGVA balances discussed above through to October 31, 2014. Centra notes that the 2013/14 Supplemental Gas PGVA account balance at the end of January 2014 was only an amount of \$5.1 million recoverable from customers. The chart illustrates the fact that the majority of the net amount in question was accumulated in the two-month February through March 2014 period.



**PUB/Centra INT-001(e)-(g)****Reference: Section 3.0 p. 2, 3**

- (e) Please explain why Centra did not file a Cost of Gas application prior to June 12, 2014 in light of the escalating Supplemental PGVA inflows in January and February.**
- (f) Please explain why Centra did not advise the Board of the escalating Supplemental Gas PGVA inflows in January and February prior to June 12, 2014.**
- (g) Please explain why Centra did not update its gas cost forecast with a more up to date futures price strip prior to sending the January 29, 2014 letter to the Board.**

**ANSWER:**

Response to parts (e) to (g):

The majority of the Supplemental Gas PGVA balance in question was accumulated in February and March 2014. The 2013/14 Supplemental Gas PGVA account balance at the end of January 2014 was of \$5.1 million recoverable from customers. In the past, Centra's Cost of Gas Applications have been filed in December or January timeframe and are based on a futures prices strip taken early in November, the beginning of the respective gas year.

In the normal course, when Centra files a Cost of Gas Application it requests approval to implement new Sales and Transportation Rates including new base rates reflecting the forecast non-Primary Gas costs for the Gas Year in question, as well as new rate riders to reflect the disposition of the actual balances in the non-Primary Gas deferral accounts for prior gas years. Centra typically requests approval to implement new rate riders to dispose of the balance in its non-Primary Gas PGVAs following the conclusion of the gas year, once actual final balances are known.

Given the extreme weather conditions and unusual market circumstances experienced by Centra in the winter of 2014 that resulted in the large Supplemental PGVA balance, Centra



determined that it was appropriate to request approval to dispose of the deferral account balances through rate riders prior to the conclusion of the 2014/15 Gas Year.

**PUB/Centra INT-002(a)****Reference: Section 3.0 p. 3 - Billing Percentages**

- (a) Please explain Centra's billing percentage approach and how Centra determines the appropriate Primary Gas/Supplemental Gas billing percentage.**

**ANSWER:**

Please see the attachment to this response, which provides Centra's letter to the PUB dated July 18, 2011 describing Centra's policy with respect to establishing Primary and Supplemental Gas Billing Percentages.



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July 18, 2011

THE PUBLIC UTILITIES BOARD OF MANITOBA  
400-330 Portage Avenue  
Winnipeg, Manitoba  
R3C 0C4

ATTENTION: Mr. H. M. Singh, Board Secretary and Executive Director

Dear Mr. Singh:

**RE: CENTRA GAS MANITOBA Inc. (“Centra”)**  
**Re: Public Utilities Board of Manitoba - Letter of June 2, 2011**

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Centra is in receipt of the Public Utilities Board of Manitoba’s (“PUB”) correspondence of June 2, 2011, with respect to the Primary and Supplemental Gas billing percentages and customer bill impacts reflected in Centra’s revised schedules flowing from Board Order 65/11. Please find enclosed the information requested by the PUB in its letter.

Should you have any questions regarding this filing, or require a paper copy, please contact the writer at 360-3257 or Greg Barnlund at 360-5243.

Yours truly,  
**MANITOBA HYDRO LAW DEPARTMENT**  
Per:

A handwritten signature in blue ink, appearing to read 'Brent A. Czarnecki', written over a horizontal line.

Brent A. Czarnecki  
Barrister & Solicitor

Att.

Cc: Mr. B. Peters, Fillmore Riley  
Mr. R. Cathcart, Cathcart Advisors Inc.  
Mr. B. Ryall, Energy Consultants Inc.

**CENTRA GAS MANITOBA INC.**

**PRIMARY AND SUPPLEMENTAL GAS  
DEFINITIONS AND BILLING PERCENTAGES**

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**CENTRA GAS MANITOBA INC.**  
**PRIMARY AND SUPPLEMENTAL GAS**  
**DEFINITIONS AND BILLING PERCENTAGES**

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1   **1.0   Introduction**

2   On April 28, 2011, the Public Utilities Board of Manitoba (“PUB”) issued Order  
3   65/11 with respect to Centra Gas Manitoba Inc’s (“Centra”) 2011/12 Cost of Gas  
4   Application and May 1, 2011 Primary Gas Quarterly Rate Application. On April  
5   29, 2011, Centra filed revised rate schedules and customer bill impacts to reflect  
6   the directives of Board Order 65/11. The Primary Gas billing percentages  
7   reflected in the revised schedules were 81% Primary Gas and 19%  
8   Supplemental Gas for Firm customers and 67% Primary Gas and 33%  
9   Supplemental Gas for Interruptible customers. These billing percentages were  
10   reflective of the annual forecast billing percentage for Firm and Interruptible  
11   customers for the 2010/11. On May 2, 2011, the PUB issued Order 66/11  
12   approving, on an interim basis, the new rate schedules effective May 1, 2011.

13

14   By way of letter to Centra dated June 2, 2011, the PUB noted that Centra had  
15   adjusted its Primary Gas billing percentages to 90% Primary Gas and 10%  
16   Supplemental Gas for Firm customers and 45% Primary Gas and 55%  
17   Supplemental Gas for Interruptible customers in May 2011. The PUB expressed  
18   concern that these adjustments were not reflected in the customer bill impact  
19   schedules filed by Centra on April 29 and that Centra’s bill insert informing

1 customers of the change in their Primary Gas Rate may contain inaccurate bill  
2 impacts. The PUB further requested information and clarification of several  
3 points regarding the definition of “Primary” and “Supplemental” supplies and the  
4 application of billing percentage changes.

5

#### 6 **1.1 Bill Impact Calculations**

7 In its letter of June 2, 2011, the PUB stated:

8 *“ Assuming these changes were not incorporated in the calculations, bill*  
9 *impact schedules flowing from Order 65/11, as filed by Centra on April 29*  
10 *2011, would not be reflective of the actual supply percentages between*  
11 *Primary Gas and Supplemental Gas that came into effect May 1, 2011.*  
12 *Centra’s bill insert informing customers of the change in their Primary Gas*  
13 *rate would also contain inaccurate bill impacts. Bill impacts are potentially*  
14 *even more significant for Interruptible customers.”*

15

16 Centra would like to take this opportunity to clarify an apparent misconception  
17 with regard to the preparation of bill impact information. The following section will  
18 describe the purpose of bill impact information and will discuss the assumptions  
19 associated with the bill impact calculation presented with each rate application.

20

21 Centra provides bill impact calculations to inform customers about the direction  
22 and magnitude of a rate change. Centra’s goal is to provide customers with  
23 information that is simple and easy to understand and reflective of the nature of



1 the rate change. Centra provides this bill impact information for ranges of  
2 customers in various customer classes recognizing that, as usage will vary from  
3 customer to customer, it is not possible to reflect actual bill impacts for each and  
4 every one of its customers.

5

6 Centra references a “typical” residential customer as the benchmark in its  
7 customer communications, in order to provide customers with a simple and  
8 consistent message regarding the impact of rate changes. A typical residential  
9 customer is considered to be an SGS Residential customer that consumes an  
10 amount of natural gas equal to the average weather normalized annual  
11 consumption forecast for all SGS Residential customers. Bill impacts for larger  
12 volume customers are determined for a range of customer consumption levels  
13 (and load factors where applicable) in each customer class, as there is significant  
14 variation in consumption and usage patterns between large volume customers.

15

16 Bill impact calculations are determined by comparing the annualized bill amount  
17 calculated with the proposed rates to the annualized bill amount calculated with  
18 current rates. Annualized bill amounts and therefore the resulting bill impacts  
19 are calculated using a forecast of twelve months of weather normalized usage in  
20 order to eliminate seasonal fluctuations that would otherwise be inherent if a  
21 shorter time period was used.

22

23

1 This method enables a consistent comparison of the magnitude and direction of  
2 the rate change regardless of the time of year that the rate change occurs (i.e.  
3 May or August when customer consumption is lower, or November or February  
4 when customer consumption is higher) and regardless of actual weather  
5 conditions (i.e. if weather is colder or warmer than normal). In calculating this  
6 annual bill amount, Primary Gas and Supplemental Gas charges are assumed  
7 based upon the annual billing percentage that was forecast at the beginning of  
8 each Gas Year (November 1) for each category of commodity to be supplied.

9

10 The intent of bill impact calculations is to provide a customer with an approximate  
11 impact to their bill over the next twelve months, based on normal weather and  
12 therefore it is appropriate to reflect the annualized billing percentages for Primary  
13 and Supplemental Gas as determined at the beginning of the Gas Year. This  
14 approach provides a consistent comparison for rate changes regardless of the  
15 time of year or actual weather or consumption, and illustrates the direction and  
16 magnitude of the rate change in a consistent, meaningful and understandable  
17 manner. Conversely, it would be inappropriate to reflect billing percentages that  
18 have been adjusted to reflect actual weather conditions as the bill impact  
19 calculation assumes an annualized level of customer consumption.

20

21 In its letter, the PUB asked for:

22 *“An explanation as to why such adjustments in the Primary and*  
23 *Supplemental Gas percentages were not communicated to the Board in*

1           *light of the recent Cost of Gas proceeding and why such changes were*  
2           *not reflected in Centra's April 29, 2011 filing of revised rate schedules and*  
3           *bill impacts."*

4

5       Centra described why an annualized bill calculation is appropriate to convey the  
6       rate change information to customers. Given the basis by which annualized bill  
7       amounts and therefore annualized bill impacts are determined, Centra does not  
8       communicate the operational changes in its billing percentages to the PUB in  
9       conjunction with its rate applications. As the PUB noted in its letter, these  
10      operational changes are short term adjustments required to balance Primary Gas  
11      and Supplemental Gas billings throughout the year. As noted, operational billing  
12      percentage changes are not relevant to the calculation of annualized bill impacts  
13      and therefore they are not considered insofar as the bill impact calculations are  
14      concerned.

15

## 16   **1.2   Adjustments to Billing Percentages**

17   In its letter of June 2, 2011, the PUB requested that Centra provide:

18           *"A description of Centra's policy as to when adjustments in the portion of*  
19           *Primary and Supplemental gas are made and how such portions are*  
20           *determined"*

21

22   In its letter, the PUB acknowledges that Centra makes adjustments to its billing  
23   percentages from time-to-time to reconcile the gas purchases made from various

**Centra Gas Manitoba Inc.  
Primary and Supplemental Gas  
Definitions and Billing Percentages**

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1 supply components with the sales billed to both system supplied and marketer  
2 supplied customers. The following section describes the process that Centra  
3 follows throughout the course of the Gas Year to adjust and balance Primary Gas  
4 and Supplemental Gas billings to customers.

5

6 At the outset of each new Gas Year (effective November 1st), the daily gas  
7 purchase requirements needed to serve the Firm and Interruptible groups of  
8 customers for the coming year are forecast for each group under normal weather  
9 conditions. A forecast daily gas dispatch analysis is then performed that details  
10 how each individual component of the gas supply portfolio is expected to be  
11 utilized in order to satisfy the daily forecast Firm and Interruptible load  
12 requirements.

13

14 The various sources of supply that will be utilized to satisfy daily forecast load  
15 requirements follow a hierarchy as follows: Baseload supplies, comprised of  
16 Primary Gas direct from Alberta, baseload delivered service and Supplemental  
17 Gas from the Oklahoma supply basin (November to March only) are utilized first  
18 for both Firm and Interruptible customers. Secondly, Swing supplies direct from  
19 Alberta are dispatched for both Firm and Interruptible classes. Third, both  
20 Primary and Supplemental supplies are provided to Firm and Interruptible  
21 customers during the winter months from Michigan storage inventories. In cases  
22 where the above-noted sources of supply are insufficient to meet Interruptible  
23 customers' full requirements after deducting those amounts consumed by Firm

1 customers, Interruptible customers are offered the option to either curtail their  
2 consumption or take Alternate Service. Alternate Service is typically provided by  
3 way of day-to-day purchases of peaking Delivered Service supplied at current  
4 market prices. If the previously described sources of supply (excluding Alternate  
5 Service for Interruptible customers) are not sufficient to satisfy Firm customers'  
6 full requirements, the remainder is supplied with peaking Delivered Service  
7 supplies.

8

9 On any given forecast day, Firm customers are assumed to be served first with  
10 all available supplies. Remaining supplies not required to meet Firm load  
11 requirements are then available to meet Interruptible load requirements in the  
12 same order.

13

14 Once the Gas Year has been forecast as described above, the average  
15 portioning of purchases between Primary Gas and Supplemental Gas supplies  
16 for both the Firm and Interruptible groups of customers is forecast for each month  
17 and the entire year. The annual proportions are used to set the respective Firm  
18 and Interruptible billing percentages each November 1<sup>st</sup> for the coming Gas Year.

19

20 As the Gas Year progresses, each month's forecast data is replaced with actual  
21 data and the daily load dispatch analysis described above is re-calculated on an  
22 actual basis. Annual results are then re-forecast to the end of the Gas Year.  
23 Each month, a determination is made as to whether the billing percentages

1 currently in place will be sufficient to balance the ratios of Primary and  
2 Supplemental Gas billed to Firm and Interruptible customers with the underlying  
3 ratios of purchases required to meet their respective load requirements over the  
4 course of the entire Gas Year. If they are not, Centra adjusts these billing  
5 percentages at the commencement of the next gas quarter to values that will  
6 result in a balancing of annualized billing ratios with underlying purchase ratios  
7 by the end of the Gas Year (October 31<sup>st</sup>).

8

9 In addition, as the Gas Year progresses, changes may be made to forecast  
10 assumptions regarding the utilization of the different components of Centra's  
11 overall supply portfolio. When changes in these forecast supply assumptions  
12 are made, the daily forecast load dispatch analysis described above is re-  
13 performed for the forecast months affected by the changes in supply  
14 assumptions.

15

16 An example of such a change to forecast supply assumptions is a situation  
17 where winter weather has been sufficiently warmer than normal, such that  
18 remaining forecast winter requirement could be met entirely with remaining  
19 Primary Gas storage supplies under normal weather conditions without any  
20 further anticipated utilization of Supplemental Gas from Michigan storage. In  
21 such a case, the daily purchase forecast for the remainder of the winter would be  
22 adjusted to reflect this change in assumptions.

23



1    **1.3    Definition of “Primary” and “Supplemental” Gas**

2    In its letter, the PUB requested that Centra provide its “perspective as to what  
3    constitutes Primary Gas and Supplemental Gas.”

4

5    Primary Gas is the natural gas received from western Canadian sources at the  
6    Alberta border (Empress), whether supplied by Centra or a marketer. Currently  
7    Centra sources its Primary Gas for system supplied customers under a three  
8    year gas contract with ConocoPhillips, effective November 1, 2009 and expiring  
9    on October 31, 2012.

10

11   Supplemental Gas constitutes all other supply sources than Primary Gas.  
12   Supplemental Gas typically includes U.S. supplies from both the Oklahoma and  
13   Louisiana supply basins and Delivered Service supplies.

14

15   Historically, Centra’s purchases of Delivered Service supplies were a relatively  
16   small component of its overall supply portfolio and were routinely categorized as  
17   Supplemental Gas. Recently however, Centra has placed a much greater  
18   reliance on baseload supplies of Delivered Service in order to mitigate exposure  
19   to the continued escalation of tolls on the TransCanada Mainline. In 2010, Centra  
20   decontracted 25,000 GJ/day of Firm Mainline capacity to the Manitoba Delivery  
21   Area in order to mitigate TransCanada Mainline toll exposure. At the  
22   commencement of the 2010/11 Gas Year, Centra’s planned purchases of these  
23   increased amounts of Delivered Service supplies, in lieu of holding equivalent

1 amounts of firm transportation capacity on the TransCanada Mainline, were  
2 classified as Supplemental Gas and were considered as such in the forecast of  
3 the annualized customer billing percentage.

4

5 However, once the winter season was complete, it was increasingly apparent  
6 that there would be negative impacts on marketers as a result of categorizing  
7 these supplies as "Supplemental Gas". In addition, further utilization of Delivered  
8 Service through the remainder of the 2010/11 Gas Year had the potential of  
9 reducing Firm customers' Primary Gas billing percentage to less than 50%, which  
10 would not only negatively impact marketers but could also lead to significant  
11 communication challenges with Firm customers who are not accustomed to such  
12 wide variations in billing percentages. It was determined that the Delivered  
13 Service volumes should be re-categorized as "Primary Gas". Had Centra not  
14 decontracted that level of TransCanada Mainline capacity, those same volumes  
15 would have been purchased as Primary Gas, and thus the re-categorization of  
16 these Delivered Service volumes is reasonable. Centra has elected to re-  
17 categorize baseload Delivered Service supplies as Primary Gas for purchases  
18 made from April 1, 2011 to the end of the current Gas Year. It is important to note  
19 that Peaking Delivered Service supplies will continue to be classified as  
20 Supplemental Gas as they have in the past.

21

22

1    **1.4    Interruptible Class**

2    In its letter, the PUB requested that Centra provide:

3            *“An explanation as to why Primary and Supplementary Gas percentages*  
4            *appear to have shifted so significantly for Interruptible customers and*  
5            *whether there are any implications for the cost and reliability of gas*  
6            *service for Interruptible customers.”*

7

8    The shift in Primary Gas and Supplemental Gas billing percentages for  
9    Interruptible customers on May 1, 2011 from 67% Primary Gas and 33%  
10   Supplemental Gas to 45% Primary Gas and 55% Supplemental Gas, occurred as  
11   a direct result of the colder than normal 2010/11 winter period. On an effective  
12   heating degree-day basis, the November 2010 through March 2011 period was  
13   5.1% colder than normal.

14

15   Under colder than normal conditions, Firm customers' consumption requirements  
16   increase, thereby increasing their utilization of Primary Gas supplies on which  
17   they have first call in the daily dispatch order ahead of Interruptible customers.  
18   As a result of there being a lesser amount of Primary Gas supplies available to  
19   serve Interruptible customers' requirements, a greater proportion of their load is  
20   served with Supplemental Gas relative to normal weather conditions. As the  
21   marginal increase in Interruptible customers' consumption under colder than  
22   normal weather conditions is typically served with Supplemental Gas supplies,  
23   the resulting adjustment in Interruptible billing percentages can appear large as

1 their increased use of Supplemental Gas is usually balanced through billing  
2 percentage adjustments during the low consumption summer months of May  
3 through October. Interruptible customers' consumption during this period is less  
4 than one-third of their normal annual consumption.

5

6 The adjustment to Interruptible billing percentages on May 1, 2011 was typical to  
7 the adjustments experienced in recent colder than normal winters. For example,  
8 Interruptible billing percentages on May 1, 2009 were adjusted to 40% Primary  
9 Gas and 60% Supplemental Gas, and on May 1, 2008 they were adjusted to  
10 59% Primary Gas and 41% Supplemental Gas.

11

12 The cost implications for Interruptible customers resulting from billing percentage  
13 adjustments are dependent upon the direction of the adjustment, combined with  
14 the relative difference between Primary Gas and Supplemental Gas rates over  
15 the time period during which the adjustment is in effect. For example, a decrease  
16 in the Primary Gas billing percentage combined with an increase in the  
17 Supplemental Gas percentage would positively impact Interruptible customers if  
18 Primary Gas rates are higher than Supplemental Gas rates. The reverse would  
19 be true if Primary Gas rates are lower than Supplemental rates.

20

21 In the case of the May 1, 2011 billing percentage adjustment, the billed Primary  
22 Gas rate is higher than the Supplemental Gas rate and therefore a cost reduction  
23 exists for Interruptible customers

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- 1 There are no reliability impacts on Interruptible customers as a result of
- 2 adjustments to their Primary and Supplemental billing percentages.

**PUB/Centra INT-002(b)**

**Reference: Section 3.0 p. 3 - Billing Percentages**

**(b) Please provide the quarterly Primary Gas/Supplemental Gas billing percentages for the past five years.**

**ANSWER:**

The following table details the billing percentages as requested:

Effective Date of Bill Percentage Implementation	Firm Service		Interruptible Service	
	Primary Gas	Supplemental Gas	Primary Gas	Supplemental Gas
February 1, 2015	89%	11%	79%	21%
November 1, 2014	92%	8%	84%	16%
August 1, 2014	54%	46%	99%	1%
May 1, 2014	53%	47%	100%	0%
March 1, 2014	81%	19%	99%	1%
February 1, 2014	81%	19%	64%	36%
November 1, 2013	87%	13%	77%	23%
August 1, 2013	71%	29%	70%	30%
May 1, 2013	78%	22%	76%	24%
February 1, 2013	90%	10%	88%	12%
November 1, 2012	90%	10%	88%	12%
August 1, 2012	94%	6%	89%	11%
May 1, 2012	98%	2%	89%	11%
February 1, 2012	99%	1%	95%	5%
November 1, 2011	97%	3%	95%	5%
August 1, 2011	89%	11%	37%	63%
May 1, 2011	90%	10%	45%	55%
February 1, 2011	81%	19%	67%	33%
November 1, 2010	81%	19%	67%	33%
August 1, 2010	100%	0%	74%	26%
May 1, 2010	100%	0%	74%	26%
April 1, 2010	100%	0%	74%	26%



February 1, 2010	94%	6%	67%	33%
November 1, 2009	96%	4%	67%	33%

**PUB/Centra INT-003(a)****Reference: Section 3.0 p. 3 - Peak Day Loads****(a) Please provide the Firm Peak Day loads as originally forecasted since the 2006/07 gas year including the forecasted firm peak day load for 2013/14.****ANSWER:**

Centra's Design Firm Peak Day loads in GJ since the 2006/07 Gas Year are as follows:

<b><u>Gas Year</u></b>	<b><u>GJ/day</u></b>
2006/07	447,400
2007/08	439,200
2008/09	452,000
2009/10	484,000
2010/11	481,300
2011/12	470,100
2012/13	466,400
██████	██████
██████	██████

**PUB/Centra INT-003(c)**

**Reference: Section 3.0 p. 3 - Peak Day Loads**

**(c) Please provide a table showing the sources of supply for meeting the peak day loads for 2012/13 and 2013/14 similar to the table shown on page 9 of Tab 10 in the 2013/14 GRA.**

**ANSWER:**

**Sources of Supply to Meet Design Firm Peak Day Requirements**

	<u>2012/13 gas year</u>	
	<u>(GJ/day)</u>	<u>(%)</u>
Centra Supply (MDA & SSDA)	134,142	28.8%
WTS Supply	20,058	4.3%
<b>Total Supply - FT/ STFT/ Firm Transport by Counterparties</b>	<b>154,200</b>	<b>33.1%</b>
Primary Gas Delivered Service	25,000	5.4%
Oklahoma Supply	7,860	1.7%
Michigan Supply	21,000	4.5%
Storage Withdrawal	208,591	44.7%
Emerson Supply		
Peaking Delivered Services	49,709	10.6%
	<u>466,400</u>	<u>100%</u>

Note 1: Centra contracted for 15,000 GJ/day of Firm Transportation-Non-Renewable (FT-NR) from Empress to the Centram MDA for the period February 26, 2014 to February 28, 2015, thereby increasing Centra's Total Supply – FT/STFT/Firm Transport by Counterparties to 173,200 GJ/d. This incremental capacity reduced Centra's exposure to the extraordinarily high prices experienced at downstream points in the winter of 2013/14.

**PUB/Centra I-004(c)**

**Reference: Section 3.0 p. 3 - Storage Levels and Costs**

**(c) Please explain how Centra determines the cost of Supplemental Gas in storage if additional injections are made during the winter season.**

**ANSWER:**

The volume-weighted average unit value of Supplemental Gas in storage is calculated on a monthly basis. If injections are made in a given month of the winter season, both the financial cost inflows and the associated injection volumes will be included in the calculation of a revised average inventory value conducted at month-end, which also takes into account the opening average inventory value calculated at the end of the previous month, less the storage inventory withdrawals made that month (both dollars and volumes). Storage withdrawals in the following month of the winter will then be costed at the revised volume-weighted average inventory value calculated at the end of the previous month.

**PUB/Centra INT-005(a)**

**Reference: Section 3.0 p. 3, 4 - Volumes**

- (a) Please provide a schedule showing the number of customers, average use, actual volumes, and weather adjusted volumes by customer class and service type for the years 2003/04 through 2013/14 for System Supply, Fixed Rate Primary Gas, Western Transportation System customers.**

**ANSWER:**

Attached is a schedule showing the number of customers, average use, actual volumes and weather adjusted volumes by customer class and by service type.

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15
Average number of customers in the year	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
<b>System Supply</b>												
SGS Residential	192,762	189,605	183,549	185,270	192,364	195,682	201,450	210,546	221,449	227,627	230,977	233,497
SGS Commercial	14,673	15,391	15,070	15,063	15,180	15,417	15,600	15,696	15,765	15,930	16,097	16,325
Large General Service	7,951	6,918	6,883	6,934	6,970	6,933	6,956	6,908	6,789	6,867	6,979	7,352
High Volume Firm	67	61	63	66	65	65	67	63	59	58	64	76
Mainline Firm	2	1	1	1	1	1	1	1	1	1	1	1
Interruptible Sales	41	38	38	37	35	33	32	32	30	30	29	22
<b>Fixed Price Supply</b>												
SGS Residential							135	273	398	368	323	223
SGS Commercial							4	11	12	11	9	7
Large General Service							15	42	43	46	39	19
<b>Western Transportation Service</b>												
SGS Residential	33,988	39,498	47,429	48,140	42,731	41,615	37,102	29,422	19,997	15,728	14,565	14,405
SGS Commercial	796	1,287	1,572	1,572	1,437	1,281	1,128	1,036	1,040	892	830	748
Large General Service	549	634	764	763	767	856	851	897	1,063	1,016	993	751
High Volume Firm	20	20	21	24	27	26	23	26	28	27	25	22
Mainline Firm	2	2	2	2	2	2	1	1	1	1	1	1
Interruptible Sales	9	11	10	9	9	8	9	9	7	7	5	2
<b>Transportation Service</b>												
Large General Service	-	-	-	-	-	-	-	-	-	-	-	-
High Volume Firm	2	2	3	3	3	3	3	4	5	5	5	5
Mainline Firm	4	5	5	5	5	5	6	6	6	6	6	6
Interruptible Sales	3	4	4	4	4	4	4	3	3	3	3	2
Power Stations	2	2	2	2	2	2	2	2	2	2	2	2
Special Contract	1	1	1	1	1	1	1	1	1	1	1	1
<b>Total Customers</b>	<b>250,872</b>	<b>253,478</b>	<b>255,416</b>	<b>257,895</b>	<b>259,602</b>	<b>261,935</b>	<b>263,391</b>	<b>264,978</b>	<b>266,699</b>	<b>268,625</b>	<b>270,953</b>	<b>273,465</b>



	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	Average Use is stated in m <sup>3</sup> /cust											
2												
3												
4	<b>System Supply</b>											
5	SGS Residential											
6	SGS Commercial											
7	Large General Service											
8	High Volume Firm											
9	Mainline Firm											
10	Interruptible Sales											
11												
12	<b>Fixed Price Supply</b>											
13	SGS Residential											
14	SGS Commercial											
15	Large General Service											
16												
17	<b>Western Transportation Service</b>											
18	SGS Residential											
19	SGS Commercial											
20	Large General Service											
21	High Volume Firm											
22	Mainline Firm											
23	Interruptible Sales											
24												
25	<b>Transportation Service</b>											
26	Large General Service											
27	High Volume Firm											
28	Mainline Firm											
29	Interruptible Sales											
30	Power Stations											
31	Special Contract											

		2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	Volumes are stated in 10 <sup>3</sup> m <sup>3</sup>												
2													
3													
4	<b>System Supply</b>												
5	SGS Residential												
6	SGS Commercial												
7	Large General Service												
8	High Volume Firm												
9	Mainline Firm												
10	Interruptible Sales												
11													
12	<b>Fixed Price Supply</b>												
13	SGS Residential												
14	SGS Commercial												
15	Large General Service												
16													
17	<b>Western Transportation Service</b>												
18	SGS Residential												
19	SGS Commercial												
20	Large General Service												
21	High Volume Firm												
22	Mainline Firm												
23	Interruptible Sales												
24													
25	<b>Transportation Service</b>												
26	Large General Service												
27	High Volume Firm												
28	Mainline Firm												
29	Interruptible Sales												
30	Power Stations												
31	Special Contract												
32													
33	<b>Total Volumes</b>												

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	Volumes are stated in 10 <sup>3</sup> m <sup>3</sup>											
2												
3												
4	<b>System Supply</b>											
5	SGS Residential											
6	SGS Commercial											
7	Large General Service											
8	High Volume Firm											
9	Mainline Firm											
10	Interruptible Sales											
11												
12	<b>Fixed Price Supply</b>											
13	SGS Residential											
14	SGS Commercial											
15	Large General Service											
16												
17	<b>Western Transportation Service</b>											
18	SGS Residential											
19	SGS Commercial											
20	Large General Service											
21	High Volume Firm											
22	Mainline Firm											
23	Interruptible Sales											
24												
25	<b>Transportation Service</b>											
26	Large General Service											
27	High Volume Firm											
28	Mainline Firm											
29	Interruptible Sales											
30	Power Stations											
31	Special Contract											
32												
33	<b>Total Volumes</b>											

PUB/Centra INT-006(a)

**Reference: Section 4.0 p. 6**

- (a) Please provide a more detailed explanation of the process of allocating deferral account balances to individual customer classes, explaining how the cost responsibility of each class and the amounts paid by each class are determined.**

**ANSWER:**

Each PGVA is the net result of actual gas costs incurred compared with actual revenues collected. For purposes of determining rate riders, a Cost Allocation Study is prepared reflecting actual historical gas costs incurred (inflows), customer volumes and demand data from the gas years 2012/13 and 2013/14 (actual and outlook).

All gas costs incurred are functionalized, classified and allocated to customer classes using actual volumes and peak data during the PGVA period. Each class' cost responsibility (inflows) is compared to WACOG outflows (recorded actual billings for each class), the net difference of which is each class' PGVA responsibility (that is, refund or recovery). Cost responsibility (inflows) and WACOG outflow, or each class' PGVA responsibility is driven by upstream market conditions, weather, changes in load, and the movement of customers between customer classes or services.

For the Transportation PGVA, the actual gas costs incurred are largely related to Transportation Tolls and Storage costs and are classified as demand related and allocated to each class on the basis of the peak and average allocator. These allocated costs are compared to each class' WACOG outflows. The WACOG outflows will be influenced largely by weather for the SGS and LGS customer classes whose Transportation rate (base and rate rider) is volumetric based. Larger volume customer classes with 3-part rates, Transportation WACOG inflows will be less weather sensitive. Residual Capacity Management revenues are allocated to each customer class based on their allocated portion of the Transportation PGVA since these revenues represent an offset to the fixed transportation costs originally incurred. Volume and demand related to T-Service customers are excluded from the allocation of Transportation related costs and Capacity Management revenues as these customers do not participate in this service.



The actual Unaccounted for Gas (UFG) and Minell costs flow into the Distribution PGVA. UFG costs are allocated to customer classes using the percentage allocation established in Order 131/04. Minell costs are allocated on the basis of the each class' allocation of demand-related transmission plant as established through Centra's last General Rate Application.

For the Supplemental PGVA, the actual costs (inflows) are segregated between Firm and Interruptible service based on actual daily load distribution. The segregated actual costs are compared to WACOG outflows based on actual billings for Firm and Interruptible service. Inflows are influenced by upstream market conditions and the utilization of Centra's supply sources, both of which can be significantly influenced by weather.

The purpose of the heating value deferral is to record the variance in gross margin collected from customers as a result of differences between the actual heat content of gas delivered compared to a baseline of 37.8 GJ/103m<sup>3</sup>. This deferral is allocated to each customer class based on volumes for each customer class since this deferral is entirely volume related.

Prior period residual balances represent remaining amounts to be refunded or collected from customers for rate riders that have expired. The Distribution and Supplemental component balances of these prior period residuals are allocated to customer classes based on volumes. The Transportation component of prior period residual balances is allocated based on percentage of fixed transportation costs allocated to each of the customer classes.

**PUB/Centra INT-006(b)****Reference: Section 4.0 p. 6**

**(b) Please provide schedules showing the results of the functionalization, classification, and allocation of actual gas costs to the customer classes and the allocation of WACOG outflows to the customer classes.**

**ANSWER:**

Please refer to the attached schedules.

Centra Gas Manitoba Inc. 2015/16 Cost of Gas Application

**FUNCTIONALIZATION:**

	Actual 2014/15	Functionalization		Production	Pipeline	Storage	Transmission	Distribution	OnSite	Total
		Direct	Allocator							
<b>A. FIXED COSTS</b>										
TCPL CD Demand	41,446,567	0	PIPE		41,446,567					41,446,567
TCPL STS Demand	3,518,421	0	STOR			3,518,421				3,518,421
Storage Capacity	10,662,394	0	STOR			10,662,394				10,662,394
US Pipelines Demand	6,977,254	0	STOR			6,977,254				6,977,254
Load Balancing Charges & Misc.	265,379	0	PIPE		265,379					265,379
Capacity Management Revenues	0	0	PIPE		0					0
Other (Minnell & Baseload Incr.)	198,444	0	TRAN				198,444			198,444
Subtotal - FIXED COSTS	<u>63,068,459</u>	<u>0</u>		<u>0</u>	<u>41,711,947</u>	<u>21,158,068</u>	<u>198,444</u>	<u>0</u>	<u>0</u>	<u>63,068,459</u>
<b>B. VARIABLE TRANSPORTATION</b>										
TCPL Transportation	8,547	0	PIPE		8,547					8,547
US Pipelines Transportation	1,176,127	0	STOR			1,176,127				1,176,127
Storage Withdrawal	1,995,654	0	STOR			1,995,654				1,995,654
Other	706	0	PIPE		706					706
Subtotal - VARIABLE TRANSPORTATION	<u>3,181,033</u>	<u>0</u>		<u>0</u>	<u>9,253</u>	<u>3,171,780</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>3,181,033</u>
Gas Available - Sales & Transportation										
<b>C. COMMODITY COST</b>										
1 Western Canadian Supplies	147,638,406	145,572,323	UFG	0			2,066,084			2,066,084
1 Oklahoma	0	0	UFG	0			0			0
Storage	9,347,092	9,347,092	UFG	0			0			0
Supplemental Supply	20,204,704	19,831,406	UFG	0			373,299			373,299
Subtotal - COMMODITY COST	<u>177,190,203</u>	<u>174,750,820</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>2,439,382</u>	<u>0</u>	<u>0</u>	<u>2,439,382</u>
<b>TOTAL COST OF GAS</b>	<u>243,439,695</u>	<u>174,750,820</u>		<u>0</u>	<u>41,721,200</u>	<u>24,329,849</u>	<u>2,637,826</u>	<u>0</u>	<u>0</u>	<u>68,688,875</u>











Centra Gas Manitoba Inc. 2015/16 Cost of Gas Application

**Allocation of Pipeline Commodity Costs:**

	Commodity		SGS	LGS	HVF	Co-op	Mainline	Interruptible	Special Contract	Power Stations	Primary	Supplemental Firm	Supplemental Interruptible	Total Commodity	Total Commodity & Capacity
	\$ Allocated	\$ Direct													
<b>A. FIXED COSTS</b>															
TCPL CD Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41,446,567
TCPL STS Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Capacity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
US Pipelines Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Load Balancing Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	265,379
Capacity Management Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal - FIXED COSTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41,711,947</b>
<b>B. VARIABLE TRANSPORTATION</b>															
TCPL Transportation	8,547	COM1	0	4,108	3,166	985	0	24	265	0	0	0	0	8,547	8,547
US Pipelines Transportation	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Withdrawal	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other	706	COM1	0	339	262	81	0	2	22	0	0	0	0	706	706
<b>Subtotal - VARIABLE TRANSPORTATION</b>	<b>9,253</b>		<b>0</b>	<b>4,447</b>	<b>3,427</b>	<b>1,066</b>	<b>0</b>	<b>26</b>	<b>287</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,253</b>	<b>9,253</b>
Gas Available - Sales & Transportation															
<b>C. COMMODITY COST</b>															
1 Western Canadian Supplies	0		0	0	0	0	0	0	0	0	0	0	0	0	0
1 Arkoma	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Storage	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0		0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal - COMMODITY COST</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL COST OF GAS</b>	<b>9,253</b>		<b>0</b>	<b>4,447</b>	<b>3,427</b>	<b>1,066</b>	<b>0</b>	<b>26</b>	<b>287</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,253</b>	<b>41,721,200</b>



Centra Gas Manitoba Inc. 2015/16 Cost of Gas Application

**Allocation of Storage Commodity Costs:**

	Commodity		SGS	LGS	HVF	Co-op	Mainline	Interruptible	Special Contract	Power Stations	Primary	Supplemental Firm	Supplemental Interruptible	Total Commodity	Total Commodity & Capacity
	\$ Allocated	Factor													
<b>A. FIXED COSTS</b>															
TCPL CD Demand	0		0	0	0	0	0	0	0	0	0	0	0	0	0
TCPL STS Demand	0		0	0	0	0	0	0	0	0	0	0	0	0	3,518,421
Storage Capacity	0		0	0	0	0	0	0	0	0	0	0	0	0	10,662,394
US Pipelines Demand	0		0	0	0	0	0	0	0	0	0	0	0	0	6,977,254
Load Balancing Charges	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity Management Revenues	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal - FIXED COSTS	<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>21,158,068</u>
<b>B. VARIABLE TRANSPORTATION</b>															
TCPL Transportation	0		0	0	0	0	0	0	0	0	0	0	0	0	0
US Pipelines Transportation	1,176,127	COMWINT	588,937	440,405	115,659	0	2,303	28,822	0	0	0	0	0	1,176,127	1,176,127
Storage Withdrawal	1,995,654	COMWINT	999,310	747,280	196,250	0	3,909	48,905	0	0	0	0	0	1,995,654	1,995,654
Other	0	COMWINT	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal - VARIABLE TRANSPORTATION	<u>3,171,780</u>		<u>1,588,247</u>	<u>1,187,685</u>	<u>311,909</u>	<u>0</u>	<u>6,212</u>	<u>77,727</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>3,171,780</u>	<u>3,171,780</u>
Gas Available - Sales & Transportation															
<b>C. COMMODITY COST</b>															
1 Western Canadian Supplies	0		0	0	0	0	0	0	0	0	0	0	0	0	0
1 Arkoma	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Storage	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal - COMMODITY COST	<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>TOTAL COST OF GAS</b>	<u>3,171,780</u>		<u>1,588,247</u>	<u>1,187,685</u>	<u>311,909</u>	<u>0</u>	<u>6,212</u>	<u>77,727</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>3,171,780</u>	<u>24,329,849</u>

Centra Gas Manitoba Inc. 2015/16 Cost of Gas Application

**Allocation of Transmission Capacity Costs:**

	\$ Allocated	Capacity		SGS	LGS	HVF	Co-op	Mainline	Interruptible	Special Contract	Power Stations	Allocated Primary	Supplemental Firm	Supplemental Interruptible	Total Capacity
		Factor	\$ Direct												
<b>A. FIXED COSTS</b>															
TCPL CD Demand	0		0	0	0	0	0	0	0	0	0	0	0	0	0
TCPL STS Demand	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Capacity	0		0	0	0	0	0	0	0	0	0	0	0	0	0
US Pipelines Demand	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Load Balancing Charges	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity Management Revenues	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other (Minnell & Baseload Incr.)	198,444	TRANPT-D	0	77,467	53,945	14,300	30	10,074	5,539	29,768	7,322	0	0	0	198,444
Subtotal - FIXED COSTS	198,444		0	77,467	53,945	14,300	30	10,074	5,539	29,768	7,322	0	0	0	198,444
<b>B. VARIABLE TRANSPORTATION</b>															
TCPL Transportation	0		0	0	0	0	0	0	0	0	0	0	0	0	0
US Pipelines Transportation	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Withdrawal	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal - VARIABLE TRANSPORTATION	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Gas Available - Sales & Transportation															
<b>C. COMMODITY COST</b>															
1 Western Canadian Supplies	0		0	0	0	0	0	0	0	0	0	0	0	0	0
1 Arkoma	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Storage	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal - COMMODITY COST	0		0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL COST OF GAS</b>	<b>198,444</b>		<b>0</b>	<b>77,467</b>	<b>53,945</b>	<b>14,300</b>	<b>30</b>	<b>10,074</b>	<b>5,539</b>	<b>29,768</b>	<b>7,322</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>198,444</b>

Centra Gas Manitoba Inc. 2015/16 Cost of Gas Application

Allocation of Transmission Commodity Costs:

	Commodity		SGS	LGS	HVF	Co-op	Mainline	Interruptible	Special Contract	Power Stations	Primary	Supplemental Firm	Supplemental Interruptible	Total Commodity	Total Commodity & Capacity	Total
	\$ Allocated	\$ Direct														
<b>A. FIXED COSTS</b>																
TCPL CD Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41,446,567
TCPL STS Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,518,421
Storage Capacity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,662,394
US Pipelines Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,977,254
Load Balancing Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	265,379
Capacity Management Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198,444
Subtotal - FIXED COSTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198,444
<b>B. VARIABLE TRANSPORTATION</b>																
TCPL Transportation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,547
US Pipelines Transportation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,176,127
Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,995,654
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	706
Subtotal - VARIABLE TRANSPORTATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,181,033
Gas Available - Sales & Transportation																
<b>C. COMMODITY COST</b>																
1 Western Canadian Supplies	2,066,084	COMUFG	0	793,376	568,173	181,815	0	150,824	200,410	57,850	113,635	0	0	2,066,084	2,066,084	2,066,084
1 Arkoma	0	COMUFG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage	0	COMUFG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	373,299	COMUFG	0	143,347	102,657	32,850	0	27,251	36,210	10,452	20,531	0	0	373,299	373,299	373,299
Subtotal - COMMODITY COST	2,439,382		0	936,723	670,830	214,666	0	178,075	236,620	68,303	134,166	0	0	2,439,382	2,439,382	2,439,382
TOTAL COST OF GAS	2,439,382		0	936,723	670,830	214,666	0	178,075	236,620	68,303	134,166	0	0	2,439,382	2,637,826	68,688,875



PUB/Centra INT-006(c)

Reference: Section 4.0 p. 6

- (c) Please provide schedules showing the calculation of the allocators used to allocate actual (not forecasted) costs to the customer classes (eg. Western, Peaking, PAvg, PAvg-T, Com1, ComWint, ComUFG, etc.) and provide a description of each allocator.

ANSWER:

Centra uses historical costs, volumes and customer demand to determine each class' PGVA responsibility. Forecast volumes and demand units (billing determinants) are used for purposes of unitized rate rider determination (Schedule 4.1.1). The classification and allocations factors used in this Application are attached and discussed below. Firm and Interruptible Supplemental Gas costs were established based on actual daily dispatch analysis that details how Centra's gas supply portfolio was used to satisfy firm and interruptible load requirements.

"FIRM PEAK" – This factor represents each customer class contribution to the design firm peak day (the volume of gas required to serve all Firm Sales customers, including WTS customers, on the coldest winter day experienced) and assumes that Interruptible customers are not served on this design day. It is used to derive the PAVG allocator.

"PAVG" - The Peak and Average allocator considers two factors in the allocation of capacity costs to each respective customer class. The class' contribution to the system peak day is one component, and the class' respective share of total annual system throughput is the other component. Each of the peak and average allocators have been designed to ensure that customer classes are only allocated costs for components of Centra's system that they use. Peak and average (PAVG) allocates costs related to Centra's upstream pipeline and storage functions.

"COM1"- This factor is the annual sales volumes (excluding T-Service volumes) for each class.

"COMWINT" - This factor is the sales volumes only (excluding T-Service volumes) for the winter months (November to March). The costs allocated on this basis are the variable costs

associated with the storage volumes, and are allocated to those customers that use gas withdrawn from storage.

“COMUFG” – This factor reflects the percentage of unaccounted for gas allocatable to each customer class on the basis of the percentages established through Order 131/04.

“TRANPT-D” - This factor assigns the costs related to Minell Pipeline on the basis of each class' allocation of Centra's downstream demand-related transmission plant established through Centra's last General Rate Application. Due to the unique situation with Minell Pipeline it is considered part of the gas costs for Centra.

**PUB/Centra INT-007(b)**

**Reference: Section 4.0 – p.7, 8; Schedules 4.1.0 and 4.1.1 - Supplemental Gas Rider**

- (b) Please explain Centra’s proposed course of action if the amortization of the Supplemental Gas PGVA balance is significantly greater than or less than the forecasted amortization at October 31, 2015 (i.e. does Centra propose to reset the rider after 12 months?).**

**ANSWER:**

At the time of the Interim Application for November 1, 2014 rates, Centra intended to monitor and review the balance outstanding at the end of the first year, and if necessary evaluate potential rate rider options.

Subsequent to the asking of this IR, the PUB determined in Order 12/15 that the recovery period for the Supplemental Gas rate rider would be accelerated to a nine month period from February 1, 2015 to October 31, 2015 and that the treatment of the remaining 50% of the balance would be determined as part of this Application.

**PUB/Centra I-007(c)**

**Reference: Section 4.0 – p.7, 8; Schedules 4.1.0 and 4.1.1 - Supplemental Gas Rider**

**(c) Please explain how Centra would address a similarly large Supplemental Gas PGVA balance accrual in the 2014/15 gas year in terms of overlapping and additive Supplemental Gas rate riders and the resulting impacts on customers.**

**ANSWER:**

Accumulations on account of Supplemental Gas subsequent to November 1, 2014, the start of the new gas year, will be held in a separate PGVA which will allow for separate and distinct treatment. In the event that an extraordinarily large PGVA balance was experienced, Centra would consider and propose what it views to be the appropriate disposition period to mitigate the impacts to customers.

**PUB/Centra I-007(d)**

**Reference: Section 4.0 – p.7, 8; Schedules 4.1.0 and 4.1.1 - Supplemental Gas Rider**

- (d) Centra proposes special treatment for Interruptible customers who switch customer classes to firm service (Large General Service or High Volume Firm). Please explain whether Centra proposes special treatment for T-service customers who did not contribute to the large Supplemental Gas PGVA balance but who switch to system supply or Western Transportation Service and thus would otherwise pay the firm Supplemental Gas rate rider.**

**ANSWER:**

In the event that a T-service customer elects to migrate to WTS or System Supply during the 24 month period, Centra will apply the same rate rider treatment as proposed for Interruptible customers that switch to firm service.

It is also Centra's intention that large volume sales or WTS customers who contributed to the build up in the Supplemental Gas PGVA and who wish to switch to T-service be required to contribute to the recovery of the balance. Currently, one Mainline customer is contemplating T-service and has been made aware of the requested rate change. Centra understands that this customer may consider a lump sum payment to settle the deferral amount owing to Centra. Lump sum settlements have been utilized in deferral account dispositions with the Special Contract and Power Station classes in the past. Alternatively, should the customer elect to pay over the 24-month period through a rate rider, Centra will reflect this election on the customer's bill by including the Supplemental Gas firm rate rider of \$0.0174/m<sup>3</sup> as per Schedule 4.1.1.



**PUB/Centra INT-007(e)****Reference: Section 4.0 – p.7, 8; Schedules 4.1.0 and 4.1.1 - Supplemental Gas Rider**

- (e) Please identify and describe previous instances where Centra applied for approval or the Board directed Centra to recover PGVA balances over a period longer than 12 months (including the Primary Gas PGVA).**

**ANSWER:**

Order 99/01 approved Centra's request to dispose of the Primary Gas PGVA over a 24 month period. The Primary Gas PGVA accumulated to over \$100 million (owing to Centra) due to unprecedented increases in natural gas costs during the winter of 2000/2001.

**PUB/Centra INT-007(f)****Reference: Section 4.0 – p.7, 8; Schedules 4.1.0 and 4.1.1 - Supplemental Gas Rider**

- (f) Please confirm whether Centra intends to charge firm service (LGS or HVF) customers that switch to the Interruptible class on or after May 1, 2014 the firm Supplemental Gas rate rider until October 31, 2016.**

**ANSWER:**

Confirmed.

**PUB/Centra I-008(c)**

**Reference: Section 4.0 p. 9 – Bill Impacts**

- (c) Please explain why the bill impact of \$871,132 for a single Mainline customer consuming 41,000,000 m<sup>3</sup> exceeds the total Supplemental Gas PGVA balance attributable to the Mainline class of \$570,600.**

**ANSWER:**

Centra clarifies that the \$570,600 represents the balance in all of the non-Primary Gas deferral accounts allocated to the Mainline class, which includes the allocation of the Supplemental Gas PGVA.

The Bill Impact Schedule 4.2.0 represents a range of possible impacts in each of the rate classes. The comparisons shown reflect a range of customer consumption and load factor information derived from actual data and assume that commodity is supplied by Sales Service (i.e. system or WTS supply).

In the case of the Mainline Class, 6 of the 8 customers are T-Service whose bill impacts are minimal flowing from this Application given they procure and transport their own natural gas and did not contribute to the majority of the accumulated balances.

Schedule 4.2.0 showed a bill impact of \$871,132 for Mainline customers that consume 41,000,000 m<sup>3</sup>, which assumed that they would purchase their gas by Sales Service. However, the Mainline customers at that volume level are T-service customers that did not contribute to the Supplemental Gas balance and will not be required to contribute to the recovery of the balance. The Bill Impact Schedule 4.2.0 attached to this response now separates the Mainline Class impacts between T-Service and Sales Service customers.

This does not impact the allocation of cost to the Mainline Class of approximately \$570,000. This balance will be recovered primarily from the two Sales Service customers in this Class. T-Service customers will only be responsible for residuals related to unaccounted for gas and heating value which for purposes of this Application are in a net refund position (owing to customers).



**Centra Gas Manitoba Inc.**  
**Application for Interim Rates Effective November 1, 2014**  
**Bill Impact Comparison**

**1 BILLED VS. BILLED**

		AUG 1/14 APPROVED BILLED RATES						NOV 1/14 PROPOSED BILLED RATES				BILL IMPACTS		
	Load Factor	Annual Use		Basic Chg	Demand	Commodity	Annual	Basic Chg	Demand	Commodity	Annual	\$	%	
		10 <sup>3</sup> m <sup>3</sup>	Mcf											
8	Small General Service	1.00	35	\$168	\$0	\$290	\$458	\$168	\$0	\$307	\$475	\$17	3.6%	
9		1.98	70	\$168	\$0	\$575	\$743	\$168	\$0	\$608	\$776	\$33	4.4%	
10	(Typical Residential Customer)	<b>2.37</b>	<b>84</b>	<b>\$168</b>	<b>\$0</b>	<b>\$688</b>	<b>\$856</b>	<b>\$168</b>	<b>\$0</b>	<b>\$728</b>	<b>\$896</b>	<b>\$39</b>	<b>4.6%</b>	
11		2.80	99	\$168	\$0	\$813	\$981	\$168	\$0	\$860	\$1,028	\$47	4.8%	
12		3.20	113	\$168	\$0	\$928	\$1,096	\$168	\$0	\$981	\$1,149	\$53	4.9%	
13		3.68	130	\$168	\$0	\$1,068	\$1,236	\$168	\$0	\$1,129	\$1,297	\$61	5.0%	
14		11.33	400	\$168	\$0	\$3,285	\$3,453	\$168	\$0	\$3,473	\$3,641	\$188	5.5%	
15														
16	Large General Service	11.33	400	\$924	\$0	\$2,679	\$3,603	\$924	\$0	\$2,863	\$3,787	\$185	5.1%	
17		59.49	2,100	\$924	\$0	\$14,063	\$14,987	\$924	\$0	\$15,032	\$15,956	\$969	6.5%	
18		679.87	24,000	\$924	\$0	\$160,721	\$161,645	\$924	\$0	\$171,792	\$172,716	\$11,071	6.8%	
19														
20	High Volume Firm	25%	850	30,000	\$14,657	\$45,285	\$153,650	\$213,592	\$14,657	\$65,413	\$159,018	\$239,088	\$25,496	11.9%
21		40%	850	30,000	\$14,657	\$28,303	\$153,650	\$196,610	\$14,657	\$40,883	\$159,018	\$214,559	\$17,948	9.1%
22		40%	1,416	50,000	\$14,657	\$47,172	\$256,084	\$317,912	\$14,657	\$68,138	\$265,031	\$347,826	\$29,914	9.4%
23		40%	2,833	100,000	\$14,657	\$94,343	\$512,167	\$621,168	\$14,657	\$136,277	\$530,062	\$680,995	\$59,828	9.6%
24		40%	6,200	218,866	\$14,657	\$206,485	\$1,120,960	\$1,342,103	\$14,657	\$298,263	\$1,160,125	\$1,473,045	\$130,942	9.8%
25		40%	12,600	444,792	\$14,657	\$419,632	\$2,278,080	\$2,712,369	\$14,657	\$606,148	\$2,357,673	\$2,978,477	\$266,109	9.8%
26		75%	685	24,181	\$14,657	\$12,167	\$123,848	\$150,672	\$14,657	\$17,575	\$128,175	\$160,407	\$9,735	6.5%
27		75%	850	30,000	\$14,657	\$15,095	\$153,650	\$183,402	\$14,657	\$21,804	\$159,018	\$195,480	\$12,078	6.6%
28		75%	1,416	50,000	\$14,657	\$25,158	\$256,084	\$295,899	\$14,657	\$36,340	\$265,031	\$316,028	\$20,129	6.8%
29		75%	2,833	100,000	\$14,657	\$50,316	\$512,167	\$577,141	\$14,657	\$72,681	\$530,062	\$617,400	\$40,259	7.0%
30		75%	6,200	218,866	\$14,657	\$110,126	\$1,120,960	\$1,245,743	\$14,657	\$159,074	\$1,160,125	\$1,333,855	\$88,113	7.1%
31		75%	12,600	444,792	\$14,657	\$223,804	\$2,278,080	\$2,516,541	\$14,657	\$323,279	\$2,357,673	\$2,695,608	\$179,068	7.1%
32														
33	MLF (Sales Service)	40%	2,500	88,252	\$14,966	\$115,068	\$412,940	\$542,974	\$14,966	\$124,362	\$461,101	\$600,429	\$57,455	10.6%
34		40%	11,000	388,311	\$14,966	\$506,301	\$1,816,935	\$2,338,202	\$14,966	\$547,194	\$2,028,844	\$2,591,003	\$252,802	10.8%
35		75%	2,500	88,252	\$14,966	\$61,370	\$412,940	\$489,275	\$14,966	\$66,327	\$461,101	\$542,393	\$53,118	10.9%
36		75%	11,000	388,311	\$14,966	\$270,027	\$1,816,935	\$2,101,928	\$14,966	\$291,837	\$2,028,844	\$2,335,646	\$233,718	11.1%
37														
38														
39	MLF (T-Service)	40%	14,000	494,213	\$14,966	\$209,195	\$63,000	\$287,160	\$14,966	\$208,939	\$62,347	\$286,252	(\$908)	-0.3%
40		40%	18,000	635,417	\$14,966	\$268,964	\$81,000	\$364,930	\$14,966	\$268,636	\$80,161	\$363,762	(\$1,168)	-0.3%
41		40%	44,000	1,553,242	\$14,966	\$657,468	\$198,000	\$870,434	\$14,966	\$656,665	\$195,949	\$867,579	(\$2,855)	-0.3%
42		75%	14,000	494,213	\$14,966	\$111,570	\$63,000	\$189,536	\$14,966	\$111,434	\$62,347	\$188,747	(\$789)	-0.4%
43		75%	18,000	635,417	\$14,966	\$143,448	\$81,000	\$239,413	\$14,966	\$143,272	\$80,161	\$238,399	(\$1,015)	-0.4%
44		75%	44,000	1,553,242	\$14,966	\$350,650	\$198,000	\$563,615	\$14,966	\$350,221	\$195,949	\$561,135	(\$2,480)	-0.4%
45														
46	Special Contract	89%	421,289	14,871,907	\$1,415,641	\$0	\$42,129	\$1,457,770	\$1,415,641	\$0	\$42,129	\$1,384,421	(\$73,349)	-5.0%
47														
48	Power Stations	16%	15,565	549,459	\$192,626	\$14,392	\$124,520	\$331,538	\$192,626	\$14,207	\$124,520	\$268,330	(\$63,208)	-19.1%
49														
50	Interruptible Sales	25%	850	30,000	\$15,053	\$22,050	\$148,976	\$186,080	\$15,053	\$23,325	\$148,690	\$187,068	\$989	0.5%
51		40%	2,833	100,000	\$15,053	\$45,938	\$496,587	\$557,578	\$15,053	\$48,594	\$495,633	\$559,281	\$1,703	0.3%
52		40%	14,164	500,000	\$15,053	\$229,688	\$2,482,935	\$2,727,677	\$15,053	\$242,970	\$2,478,166	\$2,736,189	\$8,513	0.3%
53		75%	850	30,000	\$15,053	\$7,350	\$148,976	\$171,380	\$15,053	\$7,775	\$148,690	\$171,518	\$139	0.1%
54		75%	2,833	100,000	\$15,053	\$24,500	\$496,587	\$536,141	\$15,053	\$25,917	\$495,633	\$536,603	\$463	0.1%
55		75%	14,164	500,000	\$15,053	\$122,500	\$2,482,935	\$2,620,489	\$15,053	\$129,584	\$2,478,166	\$2,622,803	\$2,314	0.1%

Firm Billing percentages: 87% Primary Gas, 13% Supplemental Gas  
 Interruptible Billing percentages: 77% Primary Gas, 23% Supplemental Gas

**PUB/Centra INT-008(d)**

**Reference: Section 4.0 p. 9 – Bill Impacts**

- (d) Please prepare a schedule showing the year-over-year bill impacts resulting from the proposed November 1, 2014 rates compared to the approved rates for November 1, 2013, including the impact of the Primary Gas rate change approved for August 1, 2014.**

**ANSWER:**

Please see the attachment to this response.

**Centra Gas Manitoba Inc.**  
**2015/16 Cost of Gas Application**  
**Bill Impact Comparison**  
**Reflecting Board Order 123/14**

<b>1 BILLED VS. BILLED</b>														
<b>2</b>														
<b>3</b>														
<b>4</b>														
<b>Nov 1/13 APPROVED BILLED RATES</b>														
<b>NOV 1/14 APPROVED BILLED RATES</b>														
<b>BILL IMPACTS</b>														
	Load	Annual Use		Basic Chg	Demand	Commodity	Annual	Basic Chg	Demand	Commodity	Annual	\$	%	
	Factor	10 <sup>3</sup> m <sup>3</sup>	Mcf											
<b>8</b>	Small General Service	1.00	35	\$168	\$0	\$255	\$423	\$168	\$0	\$308	\$476	\$53	12.5%	
<b>9</b>		1.98	70	\$168	\$0	\$506	\$674	\$168	\$0	\$611	\$779	\$105	15.6%	
<b>10</b>	(Typical Residential Customer)	<b>2.37</b>	<b>84</b>	<b>\$168</b>	<b>\$0</b>	<b>\$605</b>	<b>\$773</b>	<b>\$168</b>	<b>\$0</b>	<b>\$731</b>	<b>\$899</b>	<b>\$126</b>	<b>16.3%</b>	
<b>11</b>		2.80	99	\$168	\$0	\$715	\$883	\$168	\$0	\$864	\$1,032	\$149	16.8%	
<b>12</b>		3.20	113	\$168	\$0	\$816	\$984	\$168	\$0	\$986	\$1,154	\$170	17.2%	
<b>13</b>		3.68	130	\$168	\$0	\$939	\$1,107	\$168	\$0	\$1,134	\$1,302	\$195	17.6%	
<b>14</b>		11.33	400	\$168	\$0	\$2,889	\$3,057	\$168	\$0	\$3,489	\$3,657	\$601	19.7%	
<b>15</b>														
<b>16</b>	Large General Service	11.33	400	\$924	\$0	\$2,285	\$3,209	\$924	\$0	\$2,879	\$3,803	\$594	18.5%	
<b>17</b>		59.49	2,100	\$924	\$0	\$11,997	\$12,921	\$924	\$0	\$15,116	\$16,040	\$3,119	24.1%	
<b>18</b>		679.87	24,000	\$924	\$0	\$137,111	\$138,035	\$924	\$0	\$172,754	\$173,678	\$35,643	25.8%	
<b>19</b>														
<b>20</b>	High Volume Firm	25%	850	30,000	\$14,657	\$59,118	\$111,875	\$185,650	\$14,657	\$65,413	\$160,221	\$240,291	\$54,641	29.4%
<b>21</b>		40%	850	30,000	\$14,657	\$36,948	\$111,875	\$163,481	\$14,657	\$40,883	\$160,221	\$215,761	\$52,281	32.0%
<b>22</b>		40%	1,416	50,000	\$14,657	\$61,581	\$186,459	\$262,697	\$14,657	\$68,138	\$267,036	\$349,831	\$87,135	33.2%
<b>23</b>		40%	2,833	100,000	\$14,657	\$123,162	\$372,917	\$510,736	\$14,657	\$136,277	\$534,071	\$685,005	\$174,269	34.1%
<b>24</b>		40%	6,200	218,866	\$14,657	\$269,559	\$816,189	\$1,100,405	\$14,657	\$298,263	\$1,168,901	\$1,481,821	\$381,416	34.7%
<b>25</b>		40%	12,600	444,792	\$14,657	\$547,813	\$1,658,707	\$2,221,178	\$14,657	\$606,148	\$2,375,508	\$2,996,313	\$775,135	34.9%
<b>26</b>		75%	685	24,181	\$14,657	\$15,884	\$90,176	\$120,716	\$14,657	\$17,575	\$129,145	\$161,377	\$40,660	33.7%
<b>27</b>		75%	850	30,000	\$14,657	\$19,706	\$111,875	\$146,238	\$14,657	\$21,804	\$160,221	\$196,683	\$50,445	34.5%
<b>28</b>		75%	1,416	50,000	\$14,657	\$32,843	\$186,459	\$233,959	\$14,657	\$36,340	\$267,036	\$318,033	\$84,074	35.9%
<b>29</b>		75%	2,833	100,000	\$14,657	\$65,686	\$372,917	\$453,261	\$14,657	\$72,681	\$534,071	\$621,409	\$168,149	37.1%
<b>30</b>		75%	6,200	218,866	\$14,657	\$143,765	\$816,189	\$974,611	\$14,657	\$159,074	\$1,168,901	\$1,342,631	\$368,020	37.8%
<b>31</b>		75%	12,600	444,792	\$14,657	\$292,167	\$1,658,707	\$1,965,531	\$14,657	\$323,279	\$2,375,508	\$2,713,444	\$747,912	38.1%
<b>32</b>														
<b>33</b>	Cooperative	35%	250	8,825	\$3,819	\$11,770	\$30,975	\$46,563	\$3,819	\$11,770	\$42,625	\$58,213	\$11,650	25.0%
<b>34</b>		35%	350	12,355	\$3,819	\$16,478	\$43,365	\$63,661	\$3,819	\$16,478	\$59,675	\$79,971	\$16,310	25.6%
<b>35</b>		35%	500	17,650	\$3,819	\$23,540	\$61,950	\$89,308	\$3,819	\$23,540	\$85,250	\$112,608	\$23,300	26.1%
<b>36</b>														
<b>37</b>	Mainline Firm	40%	2,833	100,000	\$14,966	\$102,668	\$366,479	\$484,113	\$14,966	\$140,917	\$526,558	\$682,440	\$198,327	41.0%
<b>38</b>		40%	14,164	500,000	\$14,966	\$513,342	\$1,832,397	\$2,360,705	\$14,966	\$704,583	\$2,632,789	\$3,352,337	\$991,633	42.0%
<b>39</b>		40%	28,328	1,000,000	\$14,966	\$1,026,685	\$3,664,793	\$4,706,443	\$14,966	\$1,409,165	\$5,265,578	\$6,689,709	\$1,983,265	42.1%
<b>40</b>		75%	2,833	100,000	\$14,966	\$54,757	\$366,479	\$436,201	\$14,966	\$75,155	\$526,558	\$616,679	\$180,477	41.4%
<b>41</b>		75%	14,164	500,000	\$14,966	\$273,783	\$1,832,397	\$2,121,145	\$14,966	\$375,777	\$2,632,789	\$3,023,532	\$902,387	42.5%
<b>42</b>		75%	28,328	1,000,000	\$14,966	\$547,565	\$3,664,793	\$4,227,324	\$14,966	\$751,555	\$5,265,578	\$6,032,099	\$1,804,775	42.7%
<b>43</b>		75%	41,000	1,447,339	\$14,966	\$792,513	\$5,304,199	\$6,111,678	\$14,966	\$1,087,755	\$7,621,079	\$8,723,799	\$2,612,122	42.7%
<b>44</b>														
<b>45</b>	Special Contract	89%	421,289	14,871,907	\$1,415,641	\$0	\$42,129	\$1,457,770	\$1,415,641	\$0	\$42,129	\$1,384,421	(\$73,349)	-5.0%
<b>46</b>														
<b>47</b>	Power Stations	16%	15,565	549,459	\$192,626	\$14,702	\$124,520	\$331,848	\$192,626	\$14,392	\$124,520	\$268,515	(\$63,333)	-19.1%
<b>48</b>														
<b>49</b>	Interruptible Sales	25%	850	30,000	\$15,053	\$27,116	\$114,583	\$156,752	\$15,053	\$23,325	\$153,880	\$192,259	\$35,507	22.7%
<b>50</b>		40%	2,833	100,000	\$15,053	\$56,492	\$381,942	\$453,487	\$15,053	\$48,594	\$512,935	\$576,582	\$123,095	27.1%
<b>51</b>		40%	14,164	500,000	\$15,053	\$282,458	\$1,909,711	\$2,207,222	\$15,053	\$242,970	\$2,564,674	\$2,822,697	\$615,475	27.9%
<b>52</b>		75%	850	30,000	\$15,053	\$9,039	\$114,583	\$138,675	\$15,053	\$7,775	\$153,880	\$176,709	\$38,034	27.4%
<b>53</b>		75%	2,833	100,000	\$15,053	\$30,129	\$381,942	\$427,124	\$15,053	\$25,917	\$512,935	\$553,905	\$126,781	29.7%
<b>54</b>		75%	14,164	500,000	\$15,053	\$150,644	\$1,909,711	\$2,075,408	\$15,053	\$129,584	\$2,564,674	\$2,709,311	\$633,903	30.5%

**Centra Gas Manitoba Inc.  
2015/16 Cost of Gas Application  
Bill Impact Comparison  
Reflecting Board Order 123/14**

**1 BASE VS. BASE**

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		NOV 1/13 APPROVED BASE RATES						NOV 1/14 APPROVED BASE RATES				BASE IMPACTS	
	Load Factor	Annual Use		Basic Chg	Demand	Commodity	Annual	Basic Chg	Demand	Commodity	Annual	\$	%
		10 <sup>3</sup> m <sup>3</sup>	Mcf										
Small General Service		1.00	35	\$168	\$0	\$263	\$431	\$168	\$0	\$286	\$454	\$24	5.5%
		1.98	70	\$168	\$0	\$520	\$688	\$168	\$0	\$567	\$735	\$47	6.8%
(Typical Residential Customer)		2.37	84	\$168	\$0	\$624	\$792	\$168	\$0	\$680	\$848	\$56	7.1%
		2.80	99	\$168	\$0	\$737	\$905	\$168	\$0	\$803	\$971	\$66	7.3%
		3.20	113	\$168	\$0	\$841	\$1,009	\$168	\$0	\$917	\$1,085	\$76	7.5%
		3.68	130	\$168	\$0	\$967	\$1,135	\$168	\$0	\$1,055	\$1,223	\$87	7.7%
		11.33	400	\$168	\$0	\$2,977	\$3,145	\$168	\$0	\$3,245	\$3,413	\$269	8.5%
Large General Service		11.33	400	\$924	\$0	\$2,370	\$3,294	\$924	\$0	\$2,639	\$3,563	\$269	8.2%
		59.49	2,100	\$924	\$0	\$12,445	\$13,369	\$924	\$0	\$13,855	\$14,779	\$1,410	10.5%
		679.87	24,000	\$924	\$0	\$142,228	\$143,152	\$924	\$0	\$158,341	\$159,265	\$16,113	11.3%
High Volume Firm	25%	850	30,000	\$14,657	\$45,285	\$130,469	\$190,411	\$14,657	\$45,285	\$150,676	\$210,618	\$20,207	10.6%
	40%	850	30,001	\$14,657	\$28,304	\$130,473	\$173,434	\$14,657	\$28,304	\$150,681	\$193,642	\$20,208	11.7%
	40%	1,416	50,000	\$14,657	\$47,172	\$217,448	\$279,276	\$14,657	\$47,172	\$251,126	\$312,955	\$33,679	12.1%
	40%	2,833	100,000	\$14,657	\$94,343	\$434,896	\$543,896	\$14,657	\$94,343	\$502,253	\$611,253	\$67,357	12.4%
	40%	6,200	218,866	\$14,657	\$206,485	\$951,838	\$1,172,981	\$14,657	\$206,485	\$1,099,260	\$1,320,403	\$147,422	12.6%
	40%	12,600	444,792	\$14,657	\$419,632	\$1,934,381	\$2,368,670	\$14,657	\$419,632	\$2,233,980	\$2,668,269	\$299,599	12.6%
	75%	685	24,181	\$14,657	\$12,167	\$105,163	\$131,987	\$14,657	\$12,167	\$121,451	\$148,275	\$16,288	12.3%
	75%	850	30,000	\$14,657	\$15,095	\$130,469	\$160,221	\$14,657	\$15,095	\$150,676	\$180,428	\$20,207	12.6%
	75%	1,416	50,000	\$14,657	\$25,158	\$217,448	\$257,263	\$14,657	\$25,158	\$251,126	\$290,942	\$33,679	13.1%
	75%	2,833	100,000	\$14,657	\$50,316	\$434,896	\$499,869	\$14,657	\$50,316	\$502,253	\$567,226	\$67,357	13.5%
	75%	6,200	218,866	\$14,657	\$110,126	\$951,838	\$1,076,621	\$14,657	\$110,126	\$1,099,260	\$1,224,043	\$147,422	13.7%
	75%	12,600	444,792	\$14,657	\$223,804	\$1,934,381	\$2,172,842	\$14,657	\$223,804	\$2,233,980	\$2,472,441	\$299,599	13.8%
Cooperative	35%	250	8,825	\$3,819	\$11,770	\$33,281	\$48,869	\$3,819	\$11,770	\$39,225	\$54,813	\$5,944	12.2%
	35%	350	12,355	\$3,819	\$16,478	\$46,593	\$66,889	\$3,819	\$16,478	\$54,915	\$75,211	\$8,322	12.4%
	35%	500	17,650	\$3,819	\$23,540	\$66,561	\$93,919	\$3,819	\$23,540	\$78,450	\$105,808	\$11,889	12.7%
Mainline Firm	40%	2,833	100,000	\$14,966	\$130,386	\$390,704	\$536,055	\$14,966	\$130,386	\$458,061	\$603,412	\$67,357	12.6%
	40%	14,164	500,000	\$14,966	\$651,928	\$1,953,520	\$2,620,414	\$14,966	\$651,928	\$2,290,306	\$2,957,200	\$336,785	12.9%
	40%	28,328	1,000,000	\$14,966	\$1,303,857	\$3,907,041	\$5,225,863	\$14,966	\$1,303,857	\$4,580,612	\$5,899,434	\$673,571	12.9%
	75%	2,833	100,000	\$14,966	\$69,539	\$390,704	\$475,209	\$14,966	\$69,539	\$458,061	\$542,566	\$67,357	14.2%
	75%	14,164	500,000	\$14,966	\$347,695	\$1,953,520	\$2,316,181	\$14,966	\$347,695	\$2,290,306	\$2,652,967	\$336,785	14.5%
	75%	28,328	1,000,000	\$14,966	\$695,390	\$3,907,041	\$4,617,397	\$14,966	\$695,390	\$4,580,612	\$5,290,968	\$673,571	14.6%
	75%	41,000	1,447,339	\$14,966	\$1,006,466	\$5,654,814	\$6,676,246	\$14,966	\$1,006,466	\$6,629,700	\$7,651,131	\$974,886	14.6%
Special Contract	89%	421,289	14,871,900	\$1,415,641	\$0	\$42,129	\$1,457,770	\$1,415,641	\$0	\$42,129	\$1,457,770	\$0	0.0%
Power Stations	16%	15,565	549,459	\$192,626	\$14,392	\$124,520	\$331,538	\$192,626	\$14,392	\$124,520	\$331,538	\$0	0.0%
Interruptible Sales	25%	850	30,000	\$15,053	\$22,050	\$128,652	\$165,755	\$15,053	\$22,050	\$146,342	\$183,445	\$17,690	10.7%
	40%	2,833	100,000	\$15,053	\$45,938	\$428,840	\$489,831	\$15,053	\$45,938	\$487,805	\$548,796	\$58,966	12.0%
	40%	14,164	500,000	\$15,053	\$229,688	\$2,144,199	\$2,388,941	\$15,053	\$229,688	\$2,439,027	\$2,683,769	\$294,828	12.3%
	75%	850	30,000	\$15,053	\$7,350	\$128,652	\$151,055	\$15,053	\$7,350	\$146,342	\$168,745	\$17,690	11.7%
	75%	2,833	100,000	\$15,053	\$24,500	\$428,840	\$468,393	\$15,053	\$24,500	\$487,805	\$527,359	\$58,966	12.6%
	75%	14,164	500,000	\$15,053	\$122,500	\$2,144,199	\$2,281,753	\$15,053	\$122,500	\$2,439,027	\$2,576,581	\$294,828	12.9%

**PUB/Centra INT-009(b)**

**Reference: Schedules 3.1.1 and 3.3.1 - Cost of Supply by Source**

**(b) Please provide the monthly index prices since November 1, 2012 and the daily index prices since November 1, 2013 for each of the following hubs,:**

- i. AECO**
- ii. Emerson**
- iii. NYMEX**
- iv. Michigan city gate**
- v. Chicago**

**ANSWER:**

Please see Attachment 1 for monthly index prices for the period from November 1, 2012 through February 28, 2015. Attachment 2 provides daily index prices for the period of November 1, 2013 through February 28, 2015.

In response to information requested in CAC/Centra INT-002(c), pricing for both the Empress/AECO transportation differential and the Dawn hub have also been included in this response.

\$CDN/GJ												
	<u>Nov-12</u>	<u>Dec-12</u>	<u>Jan-13</u>	<u>Feb-13</u>	<u>Mar-13</u>	<u>Apr-13</u>	<u>May-13</u>	<u>Jun-13</u>	<u>Jul-13</u>	<u>Aug-13</u>	<u>Sep-13</u>	<u>Oct-13</u>
1 <b>Monthly Index Prices</b>												
2 AECO	\$3.1047	\$3.2483	\$2.9612	\$2 8798	\$2.9181	\$3.2837	\$3.4867	\$3.4442	\$3.0689	\$2.5924	\$2 3534	\$2.4527
3 Emerson	\$3.5301	\$3.8474	\$3.4284	\$3.4411	\$3.4750	\$3.8186	\$4.1060	\$4.1846	\$3.6953	\$3.7038	\$3 6654	\$3.5783
4 NYMEX - Henry Hub	\$3.2675	\$3.4853	\$3.1764	\$3.1448	\$3.3422	\$3.7957	\$4.0687	\$4.1328	\$3.6144	\$3.4532	\$3.4772	\$3.4528
5 Michigan City Gate	\$3.5019	\$3.7154	\$3.3336	\$3 3144	\$3.4365	\$3.9999	\$4.3118	\$4.3939	\$3.7831	\$3.7038	\$3 6751	\$3.6475
6 Chicago	\$3.4548	\$3.7059	\$3.3431	\$3 3827	\$3.4365	\$3.9809	\$4.2530	\$4.2046	\$3.6563	\$3.5441	\$3 5874	\$3.6079
7 Dawn	\$3.7655	\$3.9134	\$3.5325	\$3.4022	\$3.6579	\$4.1336	\$4.4294	\$4.5234	\$3.9586	\$3.9734	\$3 9676	\$3.7562
8 Empress/Aeco Transportation Differential	(\$0.1685)	(\$0.1021)	(\$0.1346)	(\$0 0471)	(\$0.0659)	(\$0.1534)	(\$0.0930)	(\$0.0840)	(\$0.1008)	(\$0.0807)	(\$0 0922)	(\$0.0702)
9												
10												
\$CDN/GJ												
	<u>Nov-13</u>	<u>Dec-13</u>	<u>Jan-14</u>	<u>Feb-14</u>	<u>Mar-14</u>	<u>Apr-14</u>	<u>May-14</u>	<u>Jun-14</u>	<u>Jul-14</u>	<u>Aug-14</u>	<u>Sep-14</u>	<u>Oct-14</u>
11 <b>Monthly Index Prices</b>												
12 AECO	\$3.3129	\$3.2040	\$3.6599	\$4 2266	\$5.6386	\$4.4675	\$4.4905	\$4.3454	\$4.3751	\$3.7968	\$3 8310	\$3.8674
13 Emerson	\$3.7170	\$3.9921	\$5.0133	\$6 2563	\$10.6857	\$5.3069	\$4.9337	\$4.5940	\$4.6654	\$3.9931	\$4 2811	\$4.3388
14 NYMEX - Henry Hub	\$3.5131	\$3.8489	\$4.6415	\$5 8332	\$4.7059	\$4.7606	\$4.9388	\$4.6739	\$4.5416	\$3.9190	\$4 2036	\$4.2576
15 Michigan City Gate	\$3.6768	\$3.9215	\$4.9290	\$7 2640	\$11.9010	\$5.4003	\$5.0882	\$4.8975	\$4.7996	\$4.0548	\$4 3045	\$4.4061
16 Chicago	\$3.7270	\$3.9316	\$5.0764	\$8 8280	\$12.2572	\$5.2861	\$5.0058	\$4.7458	\$4.7377	\$4.0239	\$4 2705	\$4.3815
17 Dawn	\$3.8074	\$4.0223	\$5.1396	\$8 3242	\$12.4458	\$5.5249	\$5.1088	\$4.9178	\$4.8099	\$4.0651	\$4 3342	\$4.3922
18 Empress/Aeco Transportation Differential	(\$0.0927)	\$0.0644	\$0.1451	\$0.1751	\$0.1694	\$0.4505	\$0.0837	\$0.0827	\$0.0023	(\$0.0531)	(\$0 0249)	(\$0.0586)
19												
20												
\$CDN/GJ												
	<u>Nov-14</u>	<u>Dec-14</u>	<u>Jan-15</u>	<u>Feb-15</u>								
21 <b>Monthly Index Prices</b>												
22 AECO	\$3.5913	\$3.9419	\$3.1896	\$2 6044								
23 Emerson	\$4.2023	\$5.5858	\$4.2790	\$3 5922								
24 NYMEX - Henry Hub	\$4.0377	\$4.7083	\$3.8438	\$3 3977								
25 Michigan City Gate	\$4.1915	\$5.1097	\$3.6654	\$3 2152								
26 Chicago	\$4.1157	\$5.7287	\$4.4477	\$3 6159								
27 Dawn	\$4.2890	\$5.5638	\$4.2307	\$3 5922								
28 Empress/Aeco Transportation Differential	\$0.0750	\$0.2577	\$0.4126	\$0 3281								

	Daily Index Prices	AECO (\$/CDN/GJ)	Emerson (\$US/MMBTU)	NYMEX - Henry Hub (\$US/MMBTU)	Michigan City Gate (\$US/MMBTU)	Chicago (\$US/MMBTU)	Empress/Aeco Transportation Differential (\$/CDN/GJ)	Dawn (\$US/MMBTU)
1	11/1/2013	\$3.2694	\$3.6908	\$3.5680	\$3.7620	\$3.7430	(\$0.0733)	\$3.7785
2	11/2/2013	\$3.1873	\$3.5705	\$3.4530	\$3.5540	\$3.5490	(\$0.0554)	\$3.6668
3	11/3/2013	\$3.1873	\$3.5705	\$3.4530	\$3.5540	\$3.5490	(\$0.0554)	\$3.6668
4	11/4/2013	\$3.1873	\$3.5705	\$3.4530	\$3.5540	\$3.5490	(\$0.0554)	\$3.6668
5	11/5/2013	\$3.1334	\$3.5064	\$3.3780	\$3.5040	\$3.4980	(\$0.0676)	\$3.5883
6	11/6/2013	\$3.1352	\$3.5355	\$3.3690	\$3.5390	\$3.5260	(\$0.0819)	\$3.6040
7	11/7/2013	\$3.1770	\$3.6277	\$3.4640	\$3.6290	\$3.6740	(\$0.0627)	\$3.6741
8	11/8/2013	\$3.2623	\$3.7169	\$3.5850	\$3.7350	\$3.7450	(\$0.0319)	\$3.7773
9	11/9/2013	\$3.2001	\$3.6461	\$3.5440	\$3.6560	\$3.6540	(\$0.0241)	\$3.7067
10	11/10/2013	\$3.2001	\$3.6461	\$3.5440	\$3.6560	\$3.6540	(\$0.0241)	\$3.7067
11	11/11/2013	\$3.2001	\$3.6461	\$3.5440	\$3.6560	\$3.6540	(\$0.0241)	\$3.7067
12	11/12/2013	\$3.2206	\$3.7281	\$3.6240	\$3.7280	\$3.7580	(\$0.0125)	\$3.7832
13	11/13/2013	\$3.2489	\$3.7835	\$3.6940	\$3.7660	\$3.8200	(\$0.0154)	\$3.8266
14	11/14/2013	\$3.1778	\$3.7181	\$3.6860	\$3.7180	\$3.7250	(\$0.0198)	\$3.7620
15	11/15/2013	\$3.0800	\$3.5249	\$3.5230	\$3.5660	\$3.5680	(\$0.0077)	\$3.6105
16	11/16/2013	\$3.2325	\$3.6877	\$3.5590	\$3.6210	\$3.6240	\$0.0085	\$3.7197
17	11/17/2013	\$3.2325	\$3.6877	\$3.5590	\$3.6210	\$3.6240	\$0.0085	\$3.7197
18	11/18/2013	\$3.2325	\$3.6877	\$3.5590	\$3.6210	\$3.6240	\$0.0085	\$3.7197
19	11/19/2013	\$3.2475	\$3.7365	\$3.7090	\$3.7490	\$3.7370	\$0.0312	\$3.7909
20	11/20/2013	\$3.1413	\$3.6472	\$3.6310	\$3.6690	\$3.6600	\$0.0465	\$3.7346
21	11/21/2013	\$3.1850	\$3.7132	\$3.6250	\$3.6800	\$3.6920	\$0.0798	\$3.7487
22	11/22/2013	\$3.2516	\$3.7663	\$3.6800	\$3.7550	\$3.7540	\$0.0994	\$3.8210
23	11/23/2013	\$3.2959	\$3.9177	\$3.7750	\$3.8550	\$3.8920	\$0.1742	\$3.9199
24	11/24/2013	\$3.2959	\$3.9177	\$3.7750	\$3.8550	\$3.8920	\$0.1742	\$3.9199
25	11/25/2013	\$3.2959	\$3.9177	\$3.7750	\$3.8550	\$3.8920	\$0.1742	\$3.9199
26	11/26/2013	\$3.3662	\$4.0159	\$3.8520	\$3.9270	\$4.0680	\$0.1800	\$3.9869
27	11/27/2013	\$3.3592	\$3.9412	\$3.8710	\$3.8990	\$3.9320	\$0.1473	\$3.9864
28	11/28/2013	\$3.3592	\$3.9412	\$3.8710	\$3.8990	\$3.9320	\$0.1473	\$3.9864
29	11/29/2013	\$3.3592	\$3.9412	\$3.8710	\$3.8990	\$3.9320	\$0.1473	\$3.9864
30	11/30/2013	\$3.3592	\$3.9412	\$3.8400	\$3.8990	\$3.9320	\$0.1473	\$3.9864
31	12/1/2013	\$3.4153	\$3.9083	\$3.8400	\$3.9090	\$3.8830	\$0.1313	\$4.0185
32	12/2/2013	\$3.4153	\$3.9083	\$3.8400	\$3.9090	\$3.8830	\$0.1313	\$4.0185
33	12/3/2013	\$3.4917	\$3.9600	\$3.8530	\$3.9680	\$3.9120	\$0.1625	\$4.1062
34	12/4/2013	\$3.5501	\$4.0741	\$3.8410	\$3.9930	\$4.0230	\$0.1720	\$4.1724
35	12/5/2013	\$3.5719	\$4.2011	\$3.8930	\$4.1280	\$4.1220	\$0.1782	\$4.2287
36	12/6/2013	\$3.6463	\$4.2897	\$3.9680	\$4.1870	\$4.2640	\$0.1811	\$4.2800
37	12/7/2013	\$3.8266	\$4.4838	\$4.1450	\$4.3610	\$4.5660	\$0.1852	\$4.4260
38	12/8/2013	\$3.8266	\$4.4838	\$4.1450	\$4.3610	\$4.5660	\$0.1852	\$4.4260
39	12/9/2013	\$3.8266	\$4.4838	\$4.1450	\$4.3610	\$4.5660	\$0.1852	\$4.4260
40	12/10/2013	\$3.7262	\$4.5995	\$4.2420	\$4.4180	\$4.8270	\$0.1879	\$4.4856
41	12/11/2013	\$3.7651	\$4.7401	\$4.3250	\$4.5040	\$5.0730	\$0.1864	\$4.5782
42	12/12/2013	\$3.6957	\$4.6180	\$4.2360	\$4.4120	\$4.5830	\$0.1752	\$4.5073
43	12/13/2013	\$3.7885	\$4.6465	\$4.4010	\$4.5630	\$4.6520	\$0.1733	\$4.6816
44	12/14/2013	\$3.6801	\$4.6205	\$4.4430	\$4.5400	\$4.6230	\$0.1741	\$4.7026
45	12/15/2013	\$3.6801	\$4.6205	\$4.4430	\$4.5400	\$4.6230	\$0.1741	\$4.7026
46	12/16/2013	\$3.6801	\$4.6205	\$4.4430	\$4.5400	\$4.6230	\$0.1741	\$4.7026
47	12/17/2013	\$3.5419	\$4.5236	\$4.2060	\$4.4290	\$4.4910	\$0.1779	\$4.6086
48	12/18/2013	\$3.5399	\$4.4070	\$4.2000	\$4.4090	\$4.3970	\$0.1766	\$4.5600
49	12/19/2013	\$3.6727	\$4.5228	\$4.2500	\$4.4630	\$4.4970	\$0.1767	\$4.6304
50	12/20/2013	\$3.7600	\$4.5637	\$4.2470	\$4.5300	\$4.5230	\$0.1752	\$4.6911
51	12/21/2013	\$3.7605	\$4.6624	\$4.3510	\$4.6580	\$4.7530	\$0.1872	\$4.8250
52	12/22/2013	\$3.7605	\$4.6624	\$4.3510	\$4.6580	\$4.7530	\$0.1872	\$4.8250
53	12/23/2013	\$3.7605	\$4.6624	\$4.3510	\$4.6580	\$4.7530	\$0.1872	\$4.8250
54	12/24/2013	\$3.7894	\$4.8118	\$4.5240	\$4.7790	\$4.9190	\$0.1847	\$4.9414
55	12/25/2013	\$3.6740	\$4.8063	\$4.4770	\$4.7400	\$4.8290	\$0.1958	\$4.9322
56	12/26/2013	\$3.6740	\$4.8063	\$4.4770	\$4.7400	\$4.8290	\$0.1958	\$4.9322
57	12/27/2013	\$3.7099	\$4.7086	\$4.4010	\$4.6750	\$4.6960	\$0.1918	\$4.8784
58	12/28/2013	\$3.7196	\$4.7473	\$4.3440	\$4.6960	\$4.7510	\$0.1936	\$4.8585
59	12/29/2013	\$3.7196	\$4.7473	\$4.3440	\$4.6960	\$4.7510	\$0.1936	\$4.8585
60	12/30/2013	\$3.7196	\$4.7473	\$4.3440	\$4.6960	\$4.7510	\$0.1936	\$4.8585
61	12/31/2013	\$3.8815	\$4.9215	\$4.4120	\$4.7710	\$4.8470	\$0.1952	\$4.9232
62	1/1/2014	\$3.8060	\$4.7502	\$4.3070	\$4.6820	\$4.7560	\$0.1717	\$4.8352
63	1/2/2014	\$3.8060	\$4.7502	\$4.3070	\$4.6820	\$4.7560	\$0.1717	\$4.8352
64	1/3/2014	\$3.8489	\$4.8801	\$4.3210	\$4.7330	\$4.8420	\$0.1738	\$4.8516
65	1/4/2014	\$3.8939	\$5.0475	\$4.3910	\$4.7990	\$12.8010	\$0.1807	\$4.9504
66	1/5/2014	\$3.8939	\$5.0475	\$4.3910	\$4.7990	\$12.8010	\$0.1807	\$4.9504
67	1/6/2014	\$3.8939	\$5.0475	\$4.3910	\$4.7990	\$12.8010	\$0.1807	\$4.9504
68	1/7/2014	\$4.1288	\$6.4765	\$4.4990	\$5.9450	\$7.2900	\$0.1848	\$7.1180
69	1/8/2014	\$4.0508	\$5.4353	\$4.5830	\$5.0720	\$5.4020	\$0.1814	\$5.3655
70	1/9/2014	\$3.9519	\$4.8611	\$4.3590	\$4.7530	\$4.6940	\$0.1789	\$4.9818
71	1/10/2014	\$3.7352	\$4.5178	\$4.1510	\$4.4660	\$4.4170	\$0.1751	\$4.7779
72	1/11/2014	\$3.6573	\$4.3256	\$4.0851	\$4.3260	\$4.2630	\$0.1687	\$4.5464
73	1/12/2014	\$3.6573	\$4.3256	\$4.0851	\$4.3260	\$4.2630	\$0.1687	\$4.5464
74	1/13/2014	\$3.6573	\$4.3256	\$4.0851	\$4.3260	\$4.2630	\$0.1687	\$4.5464
75	1/14/2014	\$3.8133	\$4.5881	\$4.1940	\$4.5590	\$4.5510	\$0.1776	\$4.7591
76	1/15/2014	\$3.8746	\$4.7323	\$4.3610	\$4.7640	\$4.7580	\$0.1767	\$4.9594
77	1/16/2014	\$3.9820	\$4.8489	\$4.4530	\$4.8280	\$4.8080	\$0.1785	\$5.0859
78	1/17/2014	\$4.0716	\$5.1075	\$4.5460	\$5.1090	\$5.1200	\$0.1776	\$5.3230
79	1/18/2014	\$3.8841	\$5.3747	\$4.3900	\$5.0940	\$5.1810	\$0.1785	\$5.4329
80	1/19/2014	\$3.8841	\$5.3747	\$4.3900	\$5.0940	\$5.1810	\$0.1785	\$5.4329

	Daily Index Prices	AECO (\$/CDN/GJ)	Emerson (\$US/MMBTU)	NYMEX - Henry Hub (\$US/MMBTU)	Michigan City Gate (\$US/MMBTU)	Chicago (\$US/MMBTU)	Empress/Aeco Transportation Differential (\$/CDN/GJ)	Dawn (\$US/MMBTU)
81	1/20/2014	\$3.8841	\$5.3747	\$4.3900	\$5.0940	\$5.1810	\$0.1785	\$5.4329
82	1/21/2014	\$3.8841	\$5.3747	\$4.3900	\$5.0940	\$5.1810	\$0.1785	\$5.4329
83	1/22/2014	\$4.0504	\$6.7027	\$4.6080	\$5.8720	\$6.7440	\$0.1865	\$6.7538
84	1/23/2014	\$4.2082	\$8.4462	\$4.9220	\$7.3250	\$9.0280	\$0.1961	\$9.1213
85	1/24/2014	\$4.3259	\$6.5436	\$5.6370	\$5.9570	\$6.2800	\$0.1904	\$8.2316
86	1/25/2014	\$4.2609	\$9.4999	\$5.1650	\$9.4910	\$10.1970	\$0.1940	\$9.6811
87	1/26/2014	\$4.2609	\$9.4999	\$5.1650	\$9.4910	\$10.1970	\$0.1940	\$9.6811
88	1/27/2014	\$4.2609	\$9.4999	\$5.1650	\$9.4910	\$10.1970	\$0.1940	\$9.6811
89	1/28/2014	\$4.3796	\$26.5053	\$5.6590	\$37.1550	\$33.2300	\$0.1853	\$25.5365
90	1/29/2014	\$4.4663	\$8.1854	\$5.2510	\$6.7250	\$6.6220	\$0.1912	\$8.2356
91	1/30/2014	\$4.6959	\$6.7796	\$5.2260	\$6.6010	\$6.4460	\$0.1874	\$7.5148
92	1/31/2014	\$4.7901	\$6.8939	\$5.2720	\$6.7350	\$6.7140	\$0.1900	\$7.7084
93	2/1/2014	\$4.6986	\$6.8358	\$5.0400	\$6.9520	\$7.1150	\$0.1784	\$7.6211
94	2/2/2014	\$4.6986	\$6.8358	\$5.0400	\$6.9520	\$7.1150	\$0.1784	\$7.6211
95	2/3/2014	\$4.6986	\$6.8358	\$5.0400	\$6.9520	\$7.1150	\$0.1784	\$7.6211
96	2/4/2014	\$5.7449	\$7.6962	\$5.0390	\$7.0560	\$6.9220	\$0.1533	\$8.3058
97	2/5/2014	\$8.1527	\$9.0771	\$5.7750	\$8.5760	\$8.5840	\$0.0308	\$9.1603
98	2/6/2014	\$18.3305	\$20.5535	\$8.1150	\$22.5420	\$22.8060	\$0.0902	\$22.2500
99	2/7/2014	\$8.4313	\$8.9917	\$6.8990	\$8.7280	\$8.9660	\$0.1450	\$9.5173
100	2/8/2014	\$7.6420	\$13.3227	\$5.9200	\$9.6140	\$13.5610	\$0.1828	\$14.2301
101	2/9/2014	\$7.6420	\$13.3227	\$5.9200	\$9.6140	\$13.5610	\$0.1828	\$14.2301
102	2/10/2014	\$7.6420	\$13.3227	\$5.9200	\$9.6140	\$13.5610	\$0.1828	\$14.2301
103	2/11/2014	\$7.5851	\$17.6341	\$8.1470	\$13.5730	\$15.6870	\$0.1835	\$19.6865
104	2/12/2014	\$6.0863	\$11.1435	\$7.7540	\$8.3730	\$8.2360	\$0.1838	\$13.3161
105	2/13/2014	\$5.2111	\$10.1348	\$5.9550	\$8.0460	\$6.1350	\$0.1834	\$12.9725
106	2/14/2014	\$5.1032	\$9.8828	\$5.3360	\$8.3650	\$5.9430	\$0.1595	\$11.4671
107	2/15/2014	\$5.0640	\$10.3525	\$5.5420	\$8.2740	\$6.6160	\$0.1386	\$12.4580
108	2/16/2014	\$5.0640	\$10.3525	\$5.5420	\$8.2740	\$6.6160	\$0.1386	\$12.4580
109	2/17/2014	\$5.0640	\$10.3525	\$5.5420	\$8.2740	\$6.6160	\$0.1386	\$12.4580
110	2/18/2014	\$5.0640	\$10.3525	\$5.5420	\$8.2740	\$6.6160	\$0.1386	\$12.4580
111	2/19/2014	\$4.9476	\$9.6275	\$5.8000	\$9.6410	\$7.0670	\$0.1802	\$14.5037
112	2/20/2014	\$5.5479	\$11.5981	\$6.0000	\$10.1600	\$9.6030	\$0.1877	\$15.2430
113	2/21/2014	\$6.6992	\$13.3822	\$5.9570	\$13.6520	\$9.4410	\$0.1956	\$15.6774
114	2/22/2014	\$8.2103	\$26.1384	\$6.2380	\$26.4350	\$18.1880	\$0.1954	\$28.9136
115	2/23/2014	\$8.2103	\$26.1384	\$6.2380	\$26.4350	\$18.1880	\$0.1954	\$28.9136
116	2/24/2014	\$8.2103	\$26.1384	\$6.2380	\$26.4350	\$18.1880	\$0.1954	\$28.9136
117	2/25/2014	\$7.2967	\$25.5390	\$6.0750	\$27.5330	\$17.3820	\$0.2000	\$28.3835
118	2/26/2014	\$5.2618	\$20.4603	\$5.2060	\$18.6400	\$17.0560	\$0.2122	\$22.2249
119	2/27/2014	\$5.3677	\$24.4445	\$4.8080	\$24.7890	\$19.7580	\$0.2149	\$24.8435
120	2/28/2014	\$7.0551	\$24.5416	\$4.6140	\$23.0770	\$17.7090	\$0.3479	\$25.5399
121	3/1/2014	\$7.5743	\$42.8790	\$4.8040	\$37.3670	\$33.9970	\$24.7755	\$44.5661
122	3/2/2014	\$7.5743	\$42.8790	\$4.8040	\$37.3670	\$33.9970	\$24.7755	\$44.5661
123	3/3/2014	\$7.5743	\$42.8790	\$4.8040	\$37.3670	\$33.9970	\$24.7755	\$44.5661
124	3/4/2014	\$8.0276	\$35.7362	\$7.0920	\$37.5470	\$25.3940	\$19.2489	\$36.5986
125	3/5/2014	\$6.9393	\$17.8369	\$7.9830	\$16.1760	\$11.0400	\$2.3186	\$21.2197
126	3/6/2014	\$5.3399	\$12.2411	\$6.4570	\$12.1140	\$8.5810	\$2.8804	\$13.5956
127	3/7/2014	\$4.8770	\$9.2444	\$4.8850	\$9.2270	\$6.8760	\$1.8896	\$10.8654
128	3/8/2014	\$4.5198	\$14.1502	\$4.7750	\$13.4300	\$8.5050	\$10.7973	\$15.8322
129	3/9/2014	\$4.5198	\$14.1502	\$4.7750	\$13.4300	\$8.5050	\$10.7973	\$15.8322
130	3/10/2014	\$4.5198	\$14.1502	\$4.7750	\$13.4300	\$8.5050	\$10.7973	\$15.8322
131	3/11/2014	\$4.3711	\$6.5536	\$4.6710	\$6.7010	\$5.1920	\$2.6824	\$7.4893
132	3/12/2014	\$4.4750	\$7.1044	\$4.6710	\$7.1420	\$5.7050	\$2.6860	\$8.1755
133	3/13/2014	\$4.5258	\$6.7626	\$4.7210	\$6.6980	\$5.5120	\$2.0440	\$7.8322
134	3/14/2014	\$4.3742	\$4.9262	\$4.4100	\$5.0460	\$4.6900	\$0.5725	\$5.4233
135	3/15/2014	\$4.3140	\$5.4303	\$4.4030	\$5.3340	\$5.0280	\$0.8327	\$6.1320
136	3/16/2014	\$4.3140	\$5.4303	\$4.4030	\$5.3340	\$5.0280	\$0.8327	\$6.1320
137	3/17/2014	\$4.3140	\$5.4303	\$4.4030	\$5.3340	\$5.0280	\$0.8327	\$6.1320
138	3/18/2014	\$4.5191	\$5.2765	\$4.5740	\$5.5250	\$4.8980	\$0.9045	\$5.9941
139	3/19/2014	\$4.4893	\$5.1582	\$4.4220	\$5.3080	\$4.8940	\$0.7228	\$5.8176
140	3/20/2014	\$4.4769	\$5.0585	\$4.4280	\$5.2720	\$4.9110	\$0.5150	\$5.5418
141	3/21/2014	\$4.6024	\$4.8304	\$4.3900	\$5.0340	\$4.5900	\$0.3047	\$5.2140
142	3/22/2014	\$4.5368	\$6.2189	\$4.3270	\$6.2130	\$5.0390	\$1.3995	\$6.5990
143	3/23/2014	\$4.5368	\$6.2189	\$4.3270	\$6.2130	\$5.0390	\$1.3995	\$6.5990
144	3/24/2014	\$4.5368	\$6.2189	\$4.3270	\$6.2130	\$5.0390	\$1.3995	\$6.5990
145	3/25/2014	\$4.6458	\$6.6369	\$4.4160	\$6.6640	\$5.6480	\$1.3890	\$7.1173
146	3/26/2014	\$5.1664	\$7.4515	\$4.5290	\$7.5640	\$5.3020	\$1.3403	\$8.1714
147	3/27/2014	\$4.7893	\$5.5760	\$4.4430	\$5.8440	\$4.6190	\$0.5243	\$6.1269
148	3/28/2014	\$4.5653	\$4.8583	\$4.3940	\$5.0140	\$4.7470	\$0.3065	\$5.1422
149	3/29/2014	\$4.5638	\$4.7550	\$4.4960	\$4.8890	\$4.6320	\$0.2666	\$5.0408
150	3/30/2014	\$4.5638	\$4.7550	\$4.4960	\$4.8890	\$4.6320	\$0.2666	\$5.0408
151	3/31/2014	\$4.5638	\$4.7550	\$4.4960	\$4.8890	\$4.6320	\$0.2666	\$5.0408
152	4/1/2014	\$4.4639	\$5.0138	\$4.4800	\$4.9710	\$4.7910	\$0.2306	\$5.1495
153	4/2/2014	\$4.4252	\$4.7932	\$4.3870	\$4.7920	\$4.7280	\$0.0629	\$5.0516
154	4/3/2014	\$4.4113	\$4.7782	\$4.3850	\$4.8000	\$4.7130	(\$0.0057)	\$4.9911
155	4/4/2014	\$4.4657	\$4.8544	\$4.5120	\$4.8240	\$4.7900	\$0.0218	\$5.0650
156	4/5/2014	\$4.4266	\$4.6436	\$4.4910	\$4.7740	\$4.6890	(\$0.0012)	\$4.9129
157	4/6/2014	\$4.4266	\$4.6436	\$4.4910	\$4.7740	\$4.6890	(\$0.0012)	\$4.9129
158	4/7/2014	\$4.4266	\$4.6436	\$4.4910	\$4.7740	\$4.6890	(\$0.0012)	\$4.9129
159	4/8/2014	\$4.3850	\$4.6409	\$4.5780	\$4.7800	\$4.6940	\$0.0021	\$4.8390
160	4/9/2014	\$4.3840	\$4.6671	\$4.5730	\$4.8570	\$4.7320	\$0.0165	\$4.9887



	Daily Index Prices	AECO (\$/CDN/GJ)	Emerson (\$US/MMBTU)	NYMEX - Henry Hub (\$US/MMBTU)	Michigan City Gate (\$US/MMBTU)	Chicago (\$US/MMBTU)	Empress/Aeco Transportation Differential (\$/CDN/GJ)	Dawn (\$US/MMBTU)
161	4/10/2014	\$4.4619	\$4.6528	\$4.6650	\$4.8160	\$4.6380	\$0.0270	\$4.9678
162	4/11/2014	\$4.5509	\$4.6471	\$4.5650	\$4.7310	\$4.6060	(\$0.0009)	\$4.8095
163	4/12/2014	\$4.5912	\$4.7551	\$4.6740	\$4.8310	\$4.7340	\$0.0133	\$4.8620
164	4/13/2014	\$4.5912	\$4.7551	\$4.6740	\$4.8310	\$4.7340	\$0.0133	\$4.8620
165	4/14/2014	\$4.5912	\$4.7551	\$4.6740	\$4.8310	\$4.7340	\$0.0133	\$4.8620
166	4/15/2014	\$4.5686	\$4.8623	\$4.6430	\$4.9130	\$4.8650	\$0.0454	\$5.0096
167	4/16/2014	\$4.5806	\$4.9866	\$4.6920	\$4.9260	\$4.9090	\$0.0696	\$5.0926
168	4/17/2014	\$4.5663	\$4.8715	\$4.6400	\$4.8610	\$4.8040	\$0.0517	\$5.0100
169	4/18/2014	\$4.4584	\$4.6031	\$4.5870	\$4.7070	\$4.5930	\$0.0031	\$4.7563
170	4/19/2014	\$4.4584	\$4.6031	\$4.5870	\$4.7070	\$4.5930	\$0.0031	\$4.7563
171	4/20/2014	\$4.4584	\$4.6031	\$4.5870	\$4.7070	\$4.5930	\$0.0031	\$4.7563
172	4/21/2014	\$4.4584	\$4.6031	\$4.5870	\$4.7070	\$4.5930	\$0.0031	\$4.7563
173	4/22/2014	\$4.6117	\$4.7675	\$4.7620	\$4.8700	\$4.8000	\$0.0159	\$4.9228
174	4/23/2014	\$4.6064	\$4.7722	\$4.7560	\$4.8580	\$4.7700	\$0.0053	\$4.8890
175	4/24/2014	\$4.6480	\$4.7573	\$4.8130	\$4.8920	\$4.7970	(\$0.0048)	\$4.9458
176	4/25/2014	\$4.7353	\$4.7973	\$4.8270	\$4.9030	\$4.8080	(\$0.0018)	\$4.9342
177	4/26/2014	\$4.5383	\$4.5935	\$4.7160	\$4.8070	\$4.6890	(\$0.0043)	\$4.8303
178	4/27/2014	\$4.5383	\$4.5935	\$4.7160	\$4.8070	\$4.6890	(\$0.0043)	\$4.8303
179	4/28/2014	\$4.5383	\$4.5935	\$4.7160	\$4.8070	\$4.6890	(\$0.0043)	\$4.8303
180	4/29/2014	\$4.6031	\$4.8034	\$4.7810	\$4.8840	\$4.8040	\$0.0358	\$4.9190
181	4/30/2014	\$4.6081	\$4.8440	\$4.8360	\$4.9280	\$4.8850	\$0.0326	\$4.9580
182	5/1/2014	\$4.6084	\$4.7332	\$4.7940	\$4.9330	\$4.9080	\$0.1695	\$4.9486
183	5/2/2014	\$4.6042	\$4.7425	\$4.7920	\$4.9480	\$4.8820	\$0.1730	\$4.9478
184	5/3/2014	\$4.5282	\$4.6802	\$4.7250	\$4.8990	\$4.7890	\$0.1636	\$4.8922
185	5/4/2014	\$4.5282	\$4.6802	\$4.7250	\$4.8990	\$4.7890	\$0.1636	\$4.8922
186	5/5/2014	\$4.5282	\$4.6802	\$4.7250	\$4.8990	\$4.7890	\$0.1636	\$4.8922
187	5/6/2014	\$4.5408	\$4.6537	\$4.9103	\$4.8860	\$4.7840	\$0.1256	\$4.8881
188	5/7/2014	\$4.5630	\$4.6708	\$4.7990	\$4.9320	\$4.8010	\$0.0825	\$4.9287
189	5/8/2014	\$4.5487	\$4.5797	\$4.8230	\$4.9520	\$4.7660	\$0.0587	\$4.9282
190	5/9/2014	\$4.4762	\$4.5129	\$4.7670	\$4.8600	\$4.7090	\$0.0463	\$4.8357
191	5/10/2014	\$4.3219	\$4.3372	\$4.5870	\$4.6950	\$4.5400	\$0.0383	\$4.6849
192	5/11/2014	\$4.3219	\$4.3372	\$4.5870	\$4.6950	\$4.5400	\$0.0383	\$4.6849
193	5/12/2014	\$4.3219	\$4.3372	\$4.5870	\$4.6950	\$4.5400	\$0.0383	\$4.6849
194	5/13/2014	\$4.3037	\$4.4269	\$4.5150	\$4.6220	\$4.5440	\$0.0605	\$4.6249
195	5/14/2014	\$4.2522	\$4.4932	\$4.4690	\$4.5970	\$4.5410	\$0.0642	\$4.5962
196	5/15/2014	\$4.2173	\$4.4883	\$4.4290	\$4.5850	\$4.5100	\$0.0579	\$4.5749
197	5/16/2014	\$4.2014	\$4.4335	\$4.4200	\$4.5520	\$4.5030	\$0.0496	\$4.5508
198	5/17/2014	\$4.2566	\$4.3877	\$4.4710	\$4.6040	\$4.4670	\$0.0413	\$4.5935
199	5/18/2014	\$4.2566	\$4.3877	\$4.4710	\$4.6040	\$4.4670	\$0.0413	\$4.5935
200	5/19/2014	\$4.2566	\$4.3877	\$4.4710	\$4.6040	\$4.4670	\$0.0413	\$4.5935
201	5/20/2014	\$4.2667	\$4.3806	\$4.5360	\$4.6610	\$4.5050	\$0.0503	\$4.6515
202	5/21/2014	\$4.2763	\$4.4140	\$4.5290	\$4.6540	\$4.5110	\$0.0370	\$4.6400
203	5/22/2014	\$4.3705	\$4.4533	\$4.5730	\$4.6830	\$4.5690	\$0.0425	\$4.6741
204	5/23/2014	\$4.3105	\$4.4215	\$4.5290	\$4.6240	\$4.5110	\$0.0421	\$4.6154
205	5/24/2014	\$4.2051	\$4.2749	\$4.4020	\$4.5770	\$4.3860	\$0.0471	\$4.5695
206	5/25/2014	\$4.2051	\$4.2749	\$4.4020	\$4.5770	\$4.3860	\$0.0471	\$4.5695
207	5/26/2014	\$4.2051	\$4.2749	\$4.4020	\$4.5770	\$4.3860	\$0.0471	\$4.5695
208	5/27/2014	\$4.2051	\$4.2749	\$4.4020	\$4.5770	\$4.3860	\$0.0471	\$4.5695
209	5/28/2014	\$4.2664	\$4.3003	\$4.4270	\$4.6650	\$4.5140	\$0.0325	\$4.6514
210	5/29/2014	\$4.3870	\$4.4612	\$4.5590	\$4.7920	\$4.6080	\$0.0410	\$4.7805
211	5/30/2014	\$4.4595	\$4.5352	\$4.6270	\$4.8450	\$4.6050	\$0.0370	\$4.8437
212	5/31/2014	\$4.4595	\$4.5352	\$4.4880	\$4.7380	\$4.5280	\$0.0370	\$4.8437
213	6/1/2014	\$4.3536	\$4.4386	\$4.4880	\$4.7380	\$4.5280	\$0.0766	\$4.7444
214	6/2/2014	\$4.3536	\$4.4386	\$4.4880	\$4.7380	\$4.5280	\$0.0766	\$4.7444
215	6/3/2014	\$4.5126	\$4.5596	\$4.5350	\$4.7690	\$4.6470	\$0.0444	\$4.7921
216	6/4/2014	\$4.6317	\$4.6616	\$4.6200	\$4.8940	\$4.7370	\$0.0436	\$4.9032
217	6/5/2014	\$4.5781	\$4.6209	\$4.5800	\$4.8630	\$4.7230	\$0.0456	\$4.8829
218	6/6/2014	\$4.6362	\$4.6758	\$4.6570	\$4.9110	\$4.7340	\$0.0320	\$4.9423
219	6/7/2014	\$4.6118	\$4.6206	\$4.6580	\$4.9230	\$4.7330	\$0.0270	\$4.9440
220	6/8/2014	\$4.6118	\$4.6206	\$4.6580	\$4.9230	\$4.7330	\$0.0270	\$4.9440
221	6/9/2014	\$4.6118	\$4.6206	\$4.6580	\$4.9230	\$4.7330	\$0.0270	\$4.9440
222	6/10/2014	\$4.5719	\$4.6285	\$4.6730	\$4.8870	\$4.7090	\$0.0223	\$4.9164
223	6/11/2014	\$4.4890	\$4.5581	\$4.6180	\$4.7990	\$4.6290	\$0.0189	\$4.8228
224	6/12/2014	\$4.4570	\$4.5779	\$4.5120	\$4.7640	\$4.5650	\$0.0189	\$4.7752
225	6/13/2014	\$4.4836	\$4.5173	\$4.5070	\$4.7600	\$4.5770	\$0.0111	\$4.7731
226	6/14/2014	\$4.6064	\$4.6413	\$4.6960	\$4.9490	\$4.7030	\$0.0039	\$4.9519
227	6/15/2014	\$4.6064	\$4.6413	\$4.6960	\$4.9490	\$4.7030	\$0.0039	\$4.9519
228	6/16/2014	\$4.6064	\$4.6413	\$4.6960	\$4.9490	\$4.7030	\$0.0039	\$4.9519
229	6/17/2014	\$4.5663	\$4.6487	\$4.7140	\$4.9790	\$4.7520	\$0.0218	\$4.9729
230	6/18/2014	\$4.5599	\$4.6564	\$4.6800	\$4.9330	\$4.8120	\$0.0379	\$4.9484
231	6/19/2014	\$4.6267	\$4.7640	\$4.7250	\$4.9580	\$4.8340	\$0.0230	\$4.9772
232	6/20/2014	\$4.5423	\$4.6512	\$4.6680	\$4.8760	\$4.7510	\$0.0024	\$4.8893
233	6/21/2014	\$4.3958	\$4.4928	\$4.5330	\$4.7470	\$4.5910	\$0.0081	\$4.7539
234	6/22/2014	\$4.3958	\$4.4928	\$4.5330	\$4.7470	\$4.5910	\$0.0081	\$4.7539
235	6/23/2014	\$4.3958	\$4.4928	\$4.5330	\$4.7470	\$4.5910	\$0.0081	\$4.7539
236	6/24/2014	\$4.3347	\$4.4228	\$4.4880	\$4.7090	\$4.5450	\$0.0118	\$4.7142
237	6/25/2014	\$4.3829	\$4.4973	\$4.5020	\$4.7200	\$4.5660	\$0.0151	\$4.7432
238	6/26/2014	\$4.4394	\$4.5925	\$4.5840	\$4.7970	\$4.6600	\$0.0025	\$4.8173
239	6/27/2014	\$4.3827	\$4.5493	\$4.5670	\$4.7570	\$4.5910	\$0.0146	\$4.7752
240	6/28/2014	\$4.1874	\$4.3064	\$4.3890	\$4.5970	\$4.4160	\$0.0098	\$4.6109
241	6/29/2014	\$4.1874	\$4.3064	\$4.3890	\$4.5970	\$4.4160	\$0.0098	\$4.6109

	Daily Index Prices	AECO (\$/CDN/GJ)	Emerson (\$US/MMBTU)	NYMEX - Henry Hub (\$US/MMBTU)	Michigan City Gate (\$US/MMBTU)	Chicago (\$US/MMBTU)	Empress/Aeco Transportation Differential (\$/CDN/GJ)	Dawn (\$US/MMBTU)
242	6/30/2014	\$4.1874	\$4.3064	\$4.3890	\$4.5970	\$4.4160	\$0.0098	\$4.6109
243	7/1/2014	\$4.1939	\$4.3179	\$4.4270	\$4.6090	\$4.4900	\$0.0050	\$4.6220
244	7/2/2014	\$4.2048	\$4.2650	\$4.4660	\$4.5890	\$4.4810	\$0.0066	\$4.6147
245	7/3/2014	\$4.1936	\$4.2550	\$4.4260	\$4.5360	\$4.4240	\$0.0136	\$4.5522
246	7/4/2014	\$4.1257	\$4.1452	\$4.3060	\$4.5070	\$4.3380	(\$0.0175)	\$4.5107
247	7/5/2014	\$4.1257	\$4.1452	\$4.3060	\$4.5070	\$4.3380	(\$0.0175)	\$4.5107
248	7/6/2014	\$4.1257	\$4.1452	\$4.3060	\$4.5070	\$4.3380	(\$0.0175)	\$4.5107
249	7/7/2014	\$4.1257	\$4.1452	\$4.3060	\$4.5070	\$4.3380	(\$0.0175)	\$4.5107
250	7/8/2014	\$4.0616	\$4.1297	\$4.2840	\$4.4410	\$4.3480	(\$0.0030)	\$4.4483
251	7/9/2014	\$4.0229	\$4.0279	\$4.1800	\$4.3400	\$4.2530	(\$0.0092)	\$4.3461
252	7/10/2014	\$4.0697	\$4.1987	\$4.1660	\$4.3380	\$4.2600	(\$0.0386)	\$4.3547
253	7/11/2014	\$4.0467	\$4.1446	\$4.1520	\$4.3310	\$4.2170	(\$0.0164)	\$4.3408
254	7/12/2014	\$3.9908	\$4.0687	\$4.1270	\$4.2908	\$4.1660	(\$0.0182)	\$4.2899
255	7/13/2014	\$3.9908	\$4.0687	\$4.1270	\$4.2690	\$4.1660	(\$0.0182)	\$4.2899
256	7/14/2014	\$3.9908	\$4.0687	\$4.1270	\$4.2690	\$4.1660	(\$0.0182)	\$4.2899
257	7/15/2014	\$4.0748	\$4.1685	\$4.1250	\$4.2900	\$4.2020	(\$0.0283)	\$4.3270
258	7/16/2014	\$4.0754	\$4.1974	\$4.1340	\$4.3120	\$4.1600	(\$0.0503)	\$4.3319
259	7/17/2014	\$4.0524	\$4.1830	\$4.1570	\$4.3060	\$4.1720	(\$0.0620)	\$4.3283
260	7/18/2014	\$3.9425	\$4.0115	\$4.0430	\$4.2050	\$4.0860	(\$0.0602)	\$4.2289
261	7/19/2014	\$3.8412	\$3.8801	\$4.0800	\$4.1140	\$3.9710	(\$0.0437)	\$4.1324
262	7/20/2014	\$3.8412	\$3.8801	\$4.0800	\$4.1140	\$3.9710	(\$0.0437)	\$4.1324
263	7/21/2014	\$3.8412	\$3.8801	\$4.0800	\$4.1140	\$3.9710	(\$0.0437)	\$4.1324
264	7/22/2014	\$3.7598	\$3.9250	\$3.8670	\$4.0310	\$3.9430	\$0.0236	\$4.0466
265	7/23/2014	\$3.7244	\$3.9417	\$3.8130	\$3.9950	\$3.9100	(\$0.0191)	\$4.0075
266	7/24/2014	\$3.6973	\$3.8967	\$3.8260	\$3.9770	\$3.9340	(\$0.0271)	\$3.9913
267	7/25/2014	\$3.6892	\$3.9085	\$3.8260	\$3.9670	\$3.8690	(\$0.0332)	\$3.9893
268	7/26/2014	\$3.6418	\$3.8653	\$3.8580	\$3.9620	\$3.8290	(\$0.0451)	\$3.9502
269	7/27/2014	\$3.6418	\$3.8653	\$3.8580	\$3.9620	\$3.8290	(\$0.0451)	\$3.9502
270	7/28/2014	\$3.6418	\$3.8653	\$3.8580	\$3.9620	\$3.8290	(\$0.0451)	\$3.9502
271	7/29/2014	\$3.6940	\$3.8791	\$3.8440	\$3.9470	\$3.8570	(\$0.0428)	\$3.9630
272	7/30/2014	\$3.6278	\$3.8183	\$3.7850	\$3.8660	\$3.7860	(\$0.0442)	\$3.8788
273	7/31/2014	\$3.6539	\$3.7824	\$3.7760	\$3.8600	\$3.7650	(\$0.0467)	\$3.8789
274	8/1/2014	\$3.7057	\$3.7219	\$3.8130	\$3.8510	\$3.7620	(\$0.0298)	\$3.8670
275	8/2/2014	\$3.6692	\$3.6592	\$3.7700	\$3.8490	\$3.7840	(\$0.0068)	\$3.8578
276	8/3/2014	\$3.6692	\$3.6592	\$3.7700	\$3.8490	\$3.7840	(\$0.0068)	\$3.8578
277	8/4/2014	\$3.6692	\$3.6592	\$3.7700	\$3.8490	\$3.7840	(\$0.0068)	\$3.8578
278	8/5/2014	\$3.7012	\$3.7813	\$3.8710	\$3.8740	\$3.8690	\$0.0245	\$3.9125
279	8/6/2014	\$3.7875	\$3.9290	\$3.9230	\$3.9750	\$3.9550	\$0.0086	\$4.0086
280	8/7/2014	\$3.8250	\$3.9100	\$3.9160	\$4.0010	\$3.9600	(\$0.0002)	\$4.0176
281	8/8/2014	\$3.8629	\$3.9266	\$3.9910	\$4.0410	\$4.0080	(\$0.0012)	\$4.0663
282	8/9/2014	\$3.8014	\$3.8021	\$3.9400	\$3.9960	\$3.9390	(\$0.0029)	\$4.0148
283	8/10/2014	\$3.8014	\$3.8021	\$3.9400	\$3.9960	\$3.9390	(\$0.0029)	\$4.0148
284	8/11/2014	\$3.8014	\$3.8021	\$3.9400	\$3.9960	\$3.9390	(\$0.0029)	\$4.0148
285	8/12/2014	\$3.8438	\$3.9252	\$4.0010	\$4.0660	\$4.0050	(\$0.0188)	\$4.0838
286	8/13/2014	\$3.8550	\$3.8722	\$3.9410	\$4.0310	\$3.9860	(\$0.0198)	\$4.0689
287	8/14/2014	\$3.7943	\$3.9092	\$3.8950	\$3.9630	\$3.9150	(\$0.0078)	\$3.9841
288	8/15/2014	\$3.7983	\$3.8716	\$3.8540	\$3.9260	\$3.8910	(\$0.0089)	\$3.9613
289	8/16/2014	\$3.6975	\$3.8035	\$3.7980	\$3.8810	\$3.8230	(\$0.0077)	\$3.8900
290	8/17/2014	\$3.6975	\$3.8035	\$3.7980	\$3.8810	\$3.8230	(\$0.0077)	\$3.8900
291	8/18/2014	\$3.6975	\$3.8035	\$3.7980	\$3.8810	\$3.8230	(\$0.0077)	\$3.8900
292	8/19/2014	\$3.6826	\$3.8135	\$3.7750	\$3.8840	\$3.8410	(\$0.0027)	\$3.8864
293	8/20/2014	\$3.7784	\$3.8983	\$3.8370	\$3.9580	\$3.9500	(\$0.0152)	\$3.9703
294	8/21/2014	\$3.7583	\$3.8849	\$3.8810	\$3.9620	\$3.9350	(\$0.0192)	\$3.9650
295	8/22/2014	\$3.7584	\$3.9305	\$3.8820	\$3.9890	\$3.9680	(\$0.0127)	\$3.9905
296	8/23/2014	\$3.7538	\$3.8915	\$3.8950	\$3.9860	\$3.9610	(\$0.0216)	\$3.9930
297	8/24/2014	\$3.7538	\$3.8915	\$3.8950	\$3.9860	\$3.9610	(\$0.0216)	\$3.9930
298	8/25/2014	\$3.7538	\$3.8915	\$3.8950	\$3.9860	\$3.9610	(\$0.0216)	\$3.9930
299	8/26/2014	\$3.7778	\$3.9744	\$3.9400	\$4.0240	\$3.9600	(\$0.0189)	\$4.0482
300	8/27/2014	\$3.8011	\$4.0297	\$3.9900	\$4.0320	\$3.9980	(\$0.0103)	\$4.0801
301	8/28/2014	\$3.8319	\$4.0195	\$4.0220	\$4.0570	\$4.0120	(\$0.0059)	\$4.0783
302	8/29/2014	\$3.8276	\$3.9920	\$4.0570	\$4.0480	\$4.0080	(\$0.0006)	\$4.0800
303	8/30/2014	\$3.8276	\$3.9920	\$4.0430	\$4.0520	\$4.0260	(\$0.0006)	\$4.0800
304	8/31/2014	\$3.8276	\$3.9920	\$4.0430	\$4.0520	\$4.0260	(\$0.0006)	\$4.0800
305	9/1/2014	\$3.7663	\$4.0238	\$4.0430	\$4.0520	\$4.0260	\$0.0110	\$4.0860
306	9/2/2014	\$3.7663	\$4.0238	\$4.0430	\$4.0520	\$4.0260	\$0.0110	\$4.0860
307	9/3/2014	\$3.7272	\$4.0109	\$4.0080	\$4.0480	\$3.9940	(\$0.0037)	\$4.0961
308	9/4/2014	\$3.6594	\$3.9310	\$3.9380	\$3.9630	\$3.9250	(\$0.0007)	\$4.0187
309	9/5/2014	\$3.6427	\$3.9125	\$3.9090	\$3.9580	\$3.9150	(\$0.0075)	\$3.9935
310	9/6/2014	\$3.6126	\$3.8479	\$3.8610	\$3.8990	\$3.8550	(\$0.0109)	\$3.9344
311	9/7/2014	\$3.6126	\$3.8479	\$3.8610	\$3.8990	\$3.8550	(\$0.0109)	\$3.9344
312	9/8/2014	\$3.6126	\$3.8479	\$3.8610	\$3.8990	\$3.8550	(\$0.0109)	\$3.9344
313	9/9/2014	\$3.7126	\$3.8762	\$3.8640	\$3.9200	\$3.9020	(\$0.0145)	\$3.9567
314	9/10/2014	\$3.9809	\$4.0470	\$3.9320	\$4.1130	\$4.0500	(\$0.0610)	\$4.1231
315	9/11/2014	\$3.9113	\$4.0205	\$3.9840	\$4.0690	\$4.0370	(\$0.0583)	\$4.0844
316	9/12/2014	\$3.8292	\$3.9469	\$3.9380	\$3.9840	\$3.9530	(\$0.0369)	\$4.0202
317	9/13/2014	\$3.8001	\$3.8475	\$3.8230	\$3.9000	\$3.8610	(\$0.0506)	\$3.9264
318	9/14/2014	\$3.8001	\$3.8475	\$3.8230	\$3.9000	\$3.8610	(\$0.0506)	\$3.9264
319	9/15/2014	\$3.8001	\$3.8475	\$3.8230	\$3.9000	\$3.8610	(\$0.0506)	\$3.9264
320	9/16/2014	\$3.9903	\$3.9818	\$3.9200	\$4.0510	\$3.9930	(\$0.0824)	\$4.0561
321	9/17/2014	\$3.9021	\$3.9256	\$3.8540	\$3.9760	\$3.9320	(\$0.0846)	\$4.0144
322	9/18/2014	\$3.9842	\$4.0718	\$3.9740	\$4.1150	\$4.0730	(\$0.0539)	\$4.1501

	Daily Index Prices	AECO (\$/CDN/GJ)	Emerson (\$US/MMBTU)	NYMEX - Henry Hub (\$US/MMBTU)	Michigan City Gate (\$US/MMBTU)	Chicago (\$US/MMBTU)	Empress/Aeco Transportation Differential (\$/CDN/GJ)	Dawn (\$US/MMBTU)
323	9/19/2014	\$3.9537	\$4.0404	\$3.9910	\$4.1020	\$4.0380	(\$0.0520)	\$4.1294
324	9/20/2014	\$3.7723	\$3.8928	\$3.8750	\$3.9690	\$3.9070	(\$0.0278)	\$3.9838
325	9/21/2014	\$3.7723	\$3.8928	\$3.8750	\$3.9690	\$3.9070	(\$0.0278)	\$3.9838
326	9/22/2014	\$3.7723	\$3.8928	\$3.8750	\$3.9690	\$3.9070	(\$0.0278)	\$3.9838
327	9/23/2014	\$3.7838	\$3.9395	\$3.8790	\$3.9720	\$3.9540	(\$0.0313)	\$4.0079
328	9/24/2014	\$3.7347	\$3.9266	\$3.8950	\$3.9960	\$3.9700	(\$0.0269)	\$4.0210
329	9/25/2014	\$3.7012	\$3.8827	\$3.8390	\$3.9400	\$3.9020	(\$0.0197)	\$3.9635
330	9/26/2014	\$3.7133	\$3.8946	\$3.8910	\$3.9500	\$3.8810	(\$0.0182)	\$3.9853
331	9/27/2014	\$3.7633	\$3.9447	\$3.9210	\$3.9840	\$3.9210	(\$0.0293)	\$4.0403
332	9/28/2014	\$3.7633	\$3.9447	\$3.9210	\$3.9840	\$3.9210	(\$0.0293)	\$4.0403
333	9/29/2014	\$3.7633	\$3.9447	\$3.9210	\$3.9840	\$3.9210	(\$0.0293)	\$4.0403
334	9/30/2014	\$3.8715	\$4.0365	\$4.0210	\$4.0900	\$4.0610	(\$0.0535)	\$4.1193
335	10/1/2014	\$3.9441	\$4.0623	\$4.1410	\$4.1230	\$4.0860	(\$0.0498)	\$4.1382
336	10/2/2014	\$3.9390	\$4.0666	\$4.1400	\$4.1300	\$4.0930	(\$0.0373)	\$4.1466
337	10/3/2014	\$3.7422	\$3.9328	\$3.9950	\$3.9830	\$3.9780	(\$0.0068)	\$4.0045
338	10/4/2014	\$3.7150	\$3.8995	\$3.9380	\$3.9370	\$3.9590	\$0.0265	\$3.9921
339	10/5/2014	\$3.7150	\$3.8995	\$3.9380	\$3.9370	\$3.9590	\$0.0265	\$3.9921
340	10/6/2014	\$3.7150	\$3.8995	\$3.9380	\$3.9370	\$3.9590	\$0.0265	\$3.9921
341	10/7/2014	\$3.6482	\$3.8850	\$3.8880	\$3.9350	\$3.9260	\$0.0027	\$3.9490
342	10/8/2014	\$3.6409	\$3.8910	\$3.8790	\$3.9590	\$3.9310	\$0.0031	\$3.9707
343	10/9/2014	\$3.5979	\$3.9300	\$3.8840	\$3.9910	\$3.9540	\$0.0251	\$3.9929
344	10/10/2014	\$3.4864	\$3.9141	\$3.8700	\$3.9610	\$3.9530	\$0.0313	\$3.9774
345	10/11/2014	\$3.4688	\$3.8455	\$3.8560	\$3.9630	\$3.9210	\$0.0414	\$3.9245
346	10/12/2014	\$3.4688	\$3.8455	\$3.8560	\$3.9630	\$3.9210	\$0.0414	\$3.9245
347	10/13/2014	\$3.4688	\$3.8455	\$3.8560	\$3.9630	\$3.9210	\$0.0414	\$3.9245
348	10/14/2014	\$3.5667	\$3.8248	\$3.8720	\$3.8840	\$3.8430	\$0.0289	\$3.8876
349	10/15/2014	\$3.6302	\$3.8566	\$3.9120	\$3.9230	\$3.8890	\$0.0364	\$3.9201
350	10/16/2014	\$3.5679	\$3.6804	\$3.8130	\$3.8120	\$3.7820	\$0.0456	\$3.8252
351	10/17/2014	\$3.5724	\$3.7646	\$3.7980	\$3.8110	\$3.8080	\$0.0460	\$3.8592
352	10/18/2014	\$3.4744	\$3.7088	\$3.7250	\$3.7770	\$3.7660	\$0.0453	\$3.7963
353	10/19/2014	\$3.4744	\$3.7088	\$3.7250	\$3.7770	\$3.7660	\$0.0453	\$3.7963
354	10/20/2014	\$3.4744	\$3.7088	\$3.7250	\$3.7770	\$3.7660	\$0.0453	\$3.7963
355	10/21/2014	\$3.3490	\$3.6485	\$3.6940	\$3.7830	\$3.7680	\$0.0605	\$3.8126
356	10/22/2014	\$3.3047	\$3.6759	\$3.6170	\$3.7450	\$3.7820	\$0.1103	\$3.8056
357	10/23/2014	\$3.3830	\$3.7341	\$3.6900	\$3.7690	\$3.7810	\$0.1259	\$3.8209
358	10/24/2014	\$3.2658	\$3.6204	\$3.6010	\$3.6280	\$3.6290	\$0.1373	\$3.7074
359	10/25/2014	\$3.1573	\$3.4930	\$3.5270	\$3.5110	\$3.4940	\$0.0713	\$3.5958
360	10/26/2014	\$3.1573	\$3.4930	\$3.5270	\$3.5110	\$3.4940	\$0.0713	\$3.5958
361	10/27/2014	\$3.1573	\$3.4930	\$3.5270	\$3.5110	\$3.4940	\$0.0713	\$3.5958
362	10/28/2014	\$3.2701	\$3.6170	\$3.5550	\$3.6030	\$3.6170	\$0.0749	\$3.6778
363	10/29/2014	\$3.2980	\$3.6846	\$3.5260	\$3.6410	\$3.7000	\$0.0832	\$3.7418
364	10/30/2014	\$3.4593	\$3.8588	\$3.6010	\$3.8090	\$3.8730	\$0.1478	\$3.9046
365	10/31/2014	\$3.5646	\$4.0757	\$3.7550	\$4.0630	\$4.1000	\$0.1596	\$4.0926
366	11/1/2014	\$3.6159	\$3.8875	\$3.8230	\$3.8700	\$3.8710	\$0.0614	\$3.9952
367	11/2/2014	\$3.6159	\$3.8875	\$3.8230	\$3.8700	\$3.8710	\$0.0614	\$3.9952
368	11/3/2014	\$3.6159	\$3.8875	\$3.8230	\$3.8700	\$3.8710	\$0.0614	\$3.9952
369	11/4/2014	\$3.2279	\$3.7218	\$3.7440	\$3.7660	\$3.7970	\$0.0750	\$3.8439
370	11/5/2014	\$3.3525	\$3.7299	\$3.7290	\$3.7430	\$3.6980	\$0.0620	\$3.8033
371	11/6/2014	\$3.4961	\$4.0565	\$3.8320	\$4.0330	\$4.0460	\$0.0859	\$4.1504
372	11/7/2014	\$3.4950	\$4.2657	\$3.9240	\$4.2940	\$4.1110	\$0.1020	\$4.4286
373	11/8/2014	\$3.6226	\$4.1803	\$4.0300	\$4.1150	\$4.0960	\$0.0933	\$4.5235
374	11/9/2014	\$3.6226	\$4.1803	\$4.0300	\$4.1150	\$4.0960	\$0.0933	\$4.5235
375	11/10/2014	\$3.6226	\$4.1803	\$4.0300	\$4.1150	\$4.0960	\$0.0933	\$4.5235
376	11/11/2014	\$4.2255	\$4.5634	\$4.1840	\$4.4130	\$4.4230	\$0.0935	\$4.6723
377	11/12/2014	\$4.0459	\$4.5419	\$4.1030	\$4.5340	\$4.5620	\$0.1040	\$4.6544
378	11/13/2014	\$3.9448	\$4.4924	\$4.1970	\$4.4390	\$4.4500	\$0.1466	\$4.5706
379	11/14/2014	\$3.8557	\$4.3968	\$4.1660	\$4.3850	\$4.4100	\$0.1617	\$4.5171
380	11/15/2014	\$3.6739	\$4.3241	\$4.0500	\$4.3500	\$4.3340	\$0.1498	\$4.4370
381	11/16/2014	\$3.6739	\$4.3241	\$4.0500	\$4.3500	\$4.3340	\$0.1498	\$4.4370
382	11/17/2014	\$3.6739	\$4.3241	\$4.0500	\$4.3500	\$4.3340	\$0.1498	\$4.4370
383	11/18/2014	\$3.8833	\$4.6891	\$4.2590	\$4.6830	\$4.7780	\$0.1601	\$4.7442
384	11/19/2014	\$3.8823	\$4.7314	\$4.3310	\$4.6770	\$4.8010	\$0.1436	\$4.8155
385	11/20/2014	\$4.0368	\$4.9591	\$4.4070	\$4.9490	\$5.0390	\$0.1280	\$5.0787
386	11/21/2014	\$3.9421	\$4.9702	\$4.4280	\$4.9350	\$5.0010	\$0.1082	\$5.1137
387	11/22/2014	\$3.6798	\$4.7520	\$4.3150	\$4.7830	\$4.8010	\$0.1080	\$4.9459
388	11/23/2014	\$3.6798	\$4.7520	\$4.3150	\$4.7830	\$4.8010	\$0.1080	\$4.9459
389	11/24/2014	\$3.6798	\$4.7520	\$4.3150	\$4.7830	\$4.8010	\$0.1080	\$4.9459
390	11/25/2014	\$3.5882	\$4.5883	\$4.0870	\$4.5430	\$4.5510	\$0.1582	\$4.7032
391	11/26/2014	\$3.7542	\$4.5665	\$4.1510	\$4.5340	\$4.4580	\$0.1580	\$4.6896
392	11/27/2014	\$3.7542	\$4.5665	\$4.1490	\$4.5340	\$4.4580	\$0.1580	\$4.6896
393	11/28/2014	\$3.7542	\$4.5665	\$4.1490	\$4.5340	\$4.4580	\$0.1580	\$4.6896
394	11/29/2014	\$3.7542	\$4.5665	\$4.1490	\$4.5340	\$4.4580	\$0.1580	\$4.6896
395	11/30/2014	\$3.7542	\$4.5665	\$4.1490	\$4.5340	\$4.4580	\$0.1580	\$4.6896
396	12/1/2014	\$3.9753	\$4.6003	\$4.3000	\$4.6470	\$4.6010	\$0.2012	\$4.7442
397	12/2/2014	\$3.6392	\$4.1657	\$3.8950	\$4.2060	\$4.0930	\$0.1961	\$4.2894
398	12/3/2014	\$3.4456	\$3.9568	\$3.7710	\$4.0220	\$3.9200	\$0.1813	\$4.0909
399	12/4/2014	\$3.3396	\$3.7618	\$3.6330	\$3.8120	\$3.7250	\$0.1716	\$3.8926
400	12/5/2014	\$3.2038	\$3.6747	\$3.5370	\$3.7310	\$3.6070	\$0.1658	\$3.7930

	Daily Index Prices	AECO (\$/CDN/GJ)	Emerson (\$US/MMBTU)	NYMEX - Henry Hub (\$US/MMBTU)	Michigan City Gate (\$US/MMBTU)	Chicago (\$US/MMBTU)	Empress/Aeco Transportation Differential (\$/CDN/GJ)	Dawn (\$US/MMBTU)
401	12/6/2014	\$3.1466	\$3.6583	\$3.4190	\$3.6740	\$3.5850	\$0.1691	\$3.7639
402	12/7/2014	\$3.1466	\$3.6583	\$3.4190	\$3.6740	\$3.5850	\$0.1691	\$3.7639
403	12/8/2014	\$3.1466	\$3.6583	\$3.4190	\$3.6740	\$3.5850	\$0.1691	\$3.7639
404	12/9/2014	\$3.1056	\$3.7080	\$3.5340	\$3.8160	\$3.6680	\$0.1836	\$3.8436
405	12/10/2014	\$3.0685	\$3.8451	\$3.6320	\$3.9100	\$3.8400	\$0.2083	\$3.9649
406	12/11/2014	\$3.1140	\$3.8559	\$3.6500	\$3.8580	\$3.7800	\$0.1890	\$3.9912
407	12/12/2014	\$3.1144	\$3.7317	\$3.6830	\$3.8250	\$3.7140	\$0.1900	\$3.8964
408	12/13/2014	\$3.1645	\$3.7357	\$3.5710	\$3.7740	\$3.7020	\$0.1883	\$3.9128
409	12/14/2014	\$3.1645	\$3.7357	\$3.5710	\$3.7740	\$3.7020	\$0.1883	\$3.9128
410	12/15/2014	\$3.1645	\$3.7357	\$3.5710	\$3.7740	\$3.7020	\$0.1883	\$3.9128
411	12/16/2014	\$3.2635	\$3.8570	\$3.7150	\$3.9060	\$3.8430	\$0.1918	\$3.9900
412	12/17/2014	\$3.1561	\$3.7324	\$3.5790	\$3.8270	\$3.7490	\$0.1903	\$3.8536
413	12/18/2014	\$3.2195	\$3.8331	\$3.7210	\$3.9150	\$3.8960	\$0.1852	\$3.9420
414	12/19/2014	\$3.2770	\$3.8634	\$3.7120	\$3.9250	\$3.8290	\$0.1863	\$3.9916
415	12/20/2014	\$3.0389	\$3.5771	\$3.4640	\$3.5970	\$3.5110	\$0.2104	\$3.6999
416	12/21/2014	\$3.0389	\$3.5771	\$3.4640	\$3.5970	\$3.5110	\$0.2104	\$3.6999
417	12/22/2014	\$3.0389	\$3.5771	\$3.4640	\$3.5970	\$3.5110	\$0.2104	\$3.6999
418	12/23/2014	\$2.6260	\$3.0371	\$3.0540	\$3.0850	\$3.0100	\$0.1916	\$3.1449
419	12/24/2014	\$2.6433	\$2.9731	\$2.9910	\$3.0330	\$2.9270	\$0.1766	\$3.0786
420	12/25/2014	\$2.6600	\$2.9229	\$2.7350	\$3.0470	\$2.8770	\$0.1706	\$2.9932
421	12/26/2014	\$2.6600	\$2.9229	\$2.7350	\$3.0470	\$2.8770	\$0.1706	\$2.9932
422	12/27/2014	\$2.6600	\$2.9229	\$2.7350	\$3.0470	\$2.8770	\$0.1706	\$2.9932
423	12/28/2014	\$2.6600	\$2.9229	\$2.7350	\$3.0470	\$2.8770	\$0.1706	\$2.9932
424	12/29/2014	\$2.6600	\$2.9229	\$2.7350	\$3.0470	\$2.8770	\$0.1706	\$2.9932
425	12/30/2014	\$2.8408	\$3.6052	\$3.0650	\$3.3980	\$3.5510	\$0.1980	\$3.4820
426	12/31/2014	\$2.8710	\$3.4213	\$3.1370	\$3.3270	\$3.3370	\$0.1809	\$3.4000
427	1/1/2015	\$2.7004	\$3.0614	\$3.0310	\$3.0410	\$3.0600	\$0.1762	\$3.1041
428	1/2/2015	\$2.7004	\$3.0614	\$3.0310	\$3.0410	\$3.0600	\$0.1762	\$3.1041
429	1/3/2015	\$2.7282	\$3.2530	\$3.0060	\$3.1040	\$3.2100	\$0.1757	\$3.1843
430	1/4/2015	\$2.7282	\$3.2530	\$3.0060	\$3.1040	\$3.2100	\$0.1757	\$3.1843
431	1/5/2015	\$2.7282	\$3.2530	\$3.0060	\$3.1040	\$3.2100	\$0.1757	\$3.1843
432	1/6/2015	\$2.9050	\$3.4645	\$3.2170	\$3.1670	\$3.2940	\$0.1933	\$3.2363
433	1/7/2015	\$2.5591	\$3.7511	\$2.9840	\$2.9740	\$3.4610	\$0.1880	\$3.0577
434	1/8/2015	\$2.6584	\$3.4897	\$3.0800	\$3.0400	\$3.2820	\$0.1884	\$3.0906
435	1/9/2015	\$2.6049	\$3.1016	\$2.9200	\$2.9500	\$3.1100	\$0.1738	\$2.9972
436	1/10/2015	\$2.6286	\$3.0731	\$2.9630	\$3.0440	\$3.0160	\$0.1735	\$3.0966
437	1/11/2015	\$2.6286	\$3.0731	\$2.9630	\$3.0440	\$3.0160	\$0.1735	\$3.0966
438	1/12/2015	\$2.6286	\$3.0731	\$2.9630	\$3.0440	\$3.0160	\$0.1735	\$3.0966
439	1/13/2015	\$2.5043	\$3.0593	\$2.8980	\$2.9540	\$2.9790	\$0.1788	\$3.0261
440	1/14/2015	\$2.5066	\$2.9282	\$2.9180	\$2.9440	\$2.9500	\$0.1797	\$3.0017
441	1/15/2015	\$2.7028	\$3.1472	\$3.1490	\$3.1650	\$3.1180	\$0.1878	\$3.2476
442	1/16/2015	\$2.8717	\$3.2704	\$3.3210	\$3.3310	\$3.3210	\$0.2023	\$3.4563
443	1/17/2015	\$2.6274	\$3.0323	\$3.1050	\$3.0850	\$3.0160	\$0.1990	\$3.2135
444	1/18/2015	\$2.6274	\$3.0323	\$3.1050	\$3.0850	\$3.0160	\$0.1990	\$3.2135
445	1/19/2015	\$2.6274	\$3.0323	\$3.1050	\$3.0850	\$3.0160	\$0.1990	\$3.2135
446	1/20/2015	\$2.6274	\$3.0323	\$3.1050	\$3.0850	\$3.0160	\$0.1990	\$3.2135
447	1/21/2015	\$2.4927	\$2.9057	\$2.9440	\$2.9380	\$2.8740	\$0.1999	\$3.0615
448	1/22/2015	\$2.5669	\$2.9103	\$2.9530	\$2.9520	\$2.8940	\$0.2074	\$3.0719
449	1/23/2015	\$2.5705	\$2.8936	\$2.9470	\$2.9270	\$2.8600	\$0.2121	\$3.0357
450	1/24/2015	\$2.5683	\$2.9297	\$2.9550	\$2.9480	\$2.8850	\$0.3275	\$3.0924
451	1/25/2015	\$2.5683	\$2.9297	\$2.9550	\$2.9480	\$2.8850	\$0.3275	\$3.0924
452	1/26/2015	\$2.5683	\$2.9297	\$2.9550	\$2.9480	\$2.8850	\$0.3275	\$3.0924
453	1/27/2015	\$2.5720	\$2.9319	\$2.9210	\$2.9420	\$2.8340	\$0.3115	\$3.0801
454	1/28/2015	\$2.6190	\$2.9254	\$2.9600	\$2.9600	\$2.8650	\$0.2506	\$3.0910
455	1/29/2015	\$2.5720	\$2.8951	\$2.8900	\$2.9120	\$2.8440	\$0.2042	\$3.0172
456	1/30/2015	\$2.6216	\$2.8738	\$2.8780	\$2.8650	\$2.7680	\$0.2691	\$2.9588
457	1/31/2015	\$2.6216	\$2.8738	\$2.8780	\$2.8650	\$2.7780	\$0.2691	\$2.9588
458	2/1/2015	\$2.4783	\$2.9008	\$2.6940	\$2.7840	\$2.7780	\$0.2854	\$2.8528
459	2/2/2015	\$2.4783	\$2.9008	\$2.6940	\$2.7840	\$2.7780	\$0.2854	\$2.8528
460	2/3/2015	\$2.4796	\$2.8659	\$2.6580	\$2.7120	\$2.6590	\$0.1920	\$2.8088
461	2/4/2015	\$2.4720	\$2.8228	\$2.6680	\$2.7750	\$2.7840	\$0.0989	\$2.8465
462	2/5/2015	\$2.5217	\$2.8971	\$2.7310	\$2.8650	\$2.8350	\$0.0909	\$2.9384
463	2/6/2015	\$2.4188	\$2.6723	\$2.6560	\$2.6930	\$2.6180	\$0.0881	\$2.7897
464	2/7/2015	\$2.3837	\$2.6551	\$2.5630	\$2.6930	\$2.6170	\$0.0699	\$2.8084
465	2/8/2015	\$2.3837	\$2.6551	\$2.5630	\$2.6930	\$2.6170	\$0.0699	\$2.8084
466	2/9/2015	\$2.3837	\$2.6551	\$2.5630	\$2.6930	\$2.6170	\$0.0699	\$2.8084
467	2/10/2015	\$2.4486	\$2.6960	\$2.6180	\$2.7150	\$2.5990	\$0.0731	\$2.8454
468	2/11/2015	\$2.5622	\$3.0222	\$2.6660	\$2.8500	\$2.7680	\$0.0659	\$3.0244
469	2/12/2015	\$2.6998	\$3.2801	\$2.8630	\$3.1620	\$3.1660	\$0.0697	\$3.3560
470	2/13/2015	\$2.6224	\$3.1727	\$2.8610	\$3.0800	\$3.0300	\$0.0981	\$3.3428
471	2/14/2015	\$2.4790	\$3.1620	\$2.7460	\$2.9010	\$3.0410	\$0.1076	\$3.2002
472	2/15/2015	\$2.4790	\$3.1620	\$2.7460	\$2.9010	\$3.0410	\$0.1076	\$3.2002
473	2/16/2015	\$2.4790	\$3.1620	\$2.7460	\$2.9010	\$3.0410	\$0.1076	\$3.2002
474	2/17/2015	\$2.4790	\$3.1620	\$2.7460	\$2.9010	\$3.0410	\$0.1076	\$3.2002
475	2/18/2015	\$2.5949	\$3.9590	\$2.9570	\$3.5070	\$3.8900	\$0.2050	\$4.0128
476	2/19/2015	\$2.6316	\$11.2712	\$2.9230	\$8.4040	\$10.2040	\$2.1424	\$11.2004
477	2/20/2015	\$2.7398	\$7.7236	\$2.7920	\$5.3230	\$5.8670	\$0.6433	\$7.8986
478	2/21/2015	\$2.8538	\$6.5281	\$3.0160	\$6.2190	\$7.0820	\$0.5348	\$7.4021
479	2/22/2015	\$2.8538	\$6.5281	\$3.0160	\$6.2190	\$7.0820	\$0.5348	\$7.4021
480	2/23/2015	\$2.8538	\$6.5281	\$3.0160	\$6.2190	\$7.0820	\$0.5348	\$7.4021
481	2/24/2015	\$2.9029	\$5.2692	\$3.2150	\$5.2870	\$4.8350	\$0.4848	\$6.9404
482	2/25/2015	\$2.7723	\$5.1922	\$3.1260	\$5.1330	\$4.6440	\$0.3070	\$5.8143
483	2/26/2015	\$2.7775	\$4.8445	\$3.2090	\$4.5960	\$4.6190	\$0.2619	\$5.4920
484	2/27/2015	\$2.6730	\$4.1117	\$3.1100	\$3.7860	\$3.9050	\$0.2285	\$4.5283
485	2/28/2015	\$2.6730	\$4.1117	\$2.7850	\$2.8730	\$2.7840	\$0.2285	\$4.5283

**PUB/Centra INT-009(c)**

**Reference: Schedules 3.1.1 and 3.3.1 - Cost of Supply by Source**

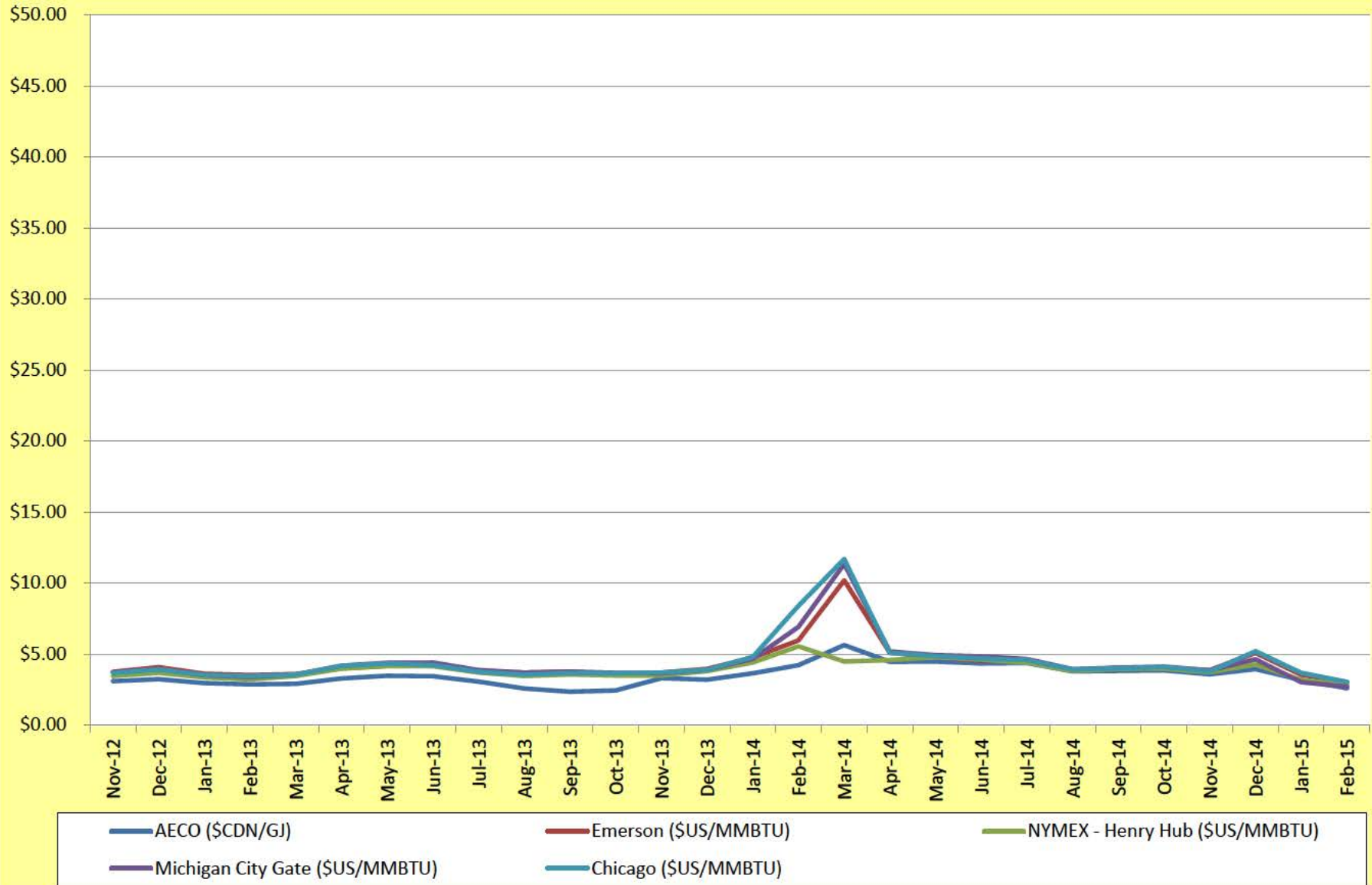
**(c). Please graphically present the monthly and daily index prices in (b). Please plot the monthly and daily prices separately.**

**ANSWER:**

Please see Attachment 1 and Attachment 2 to this response.

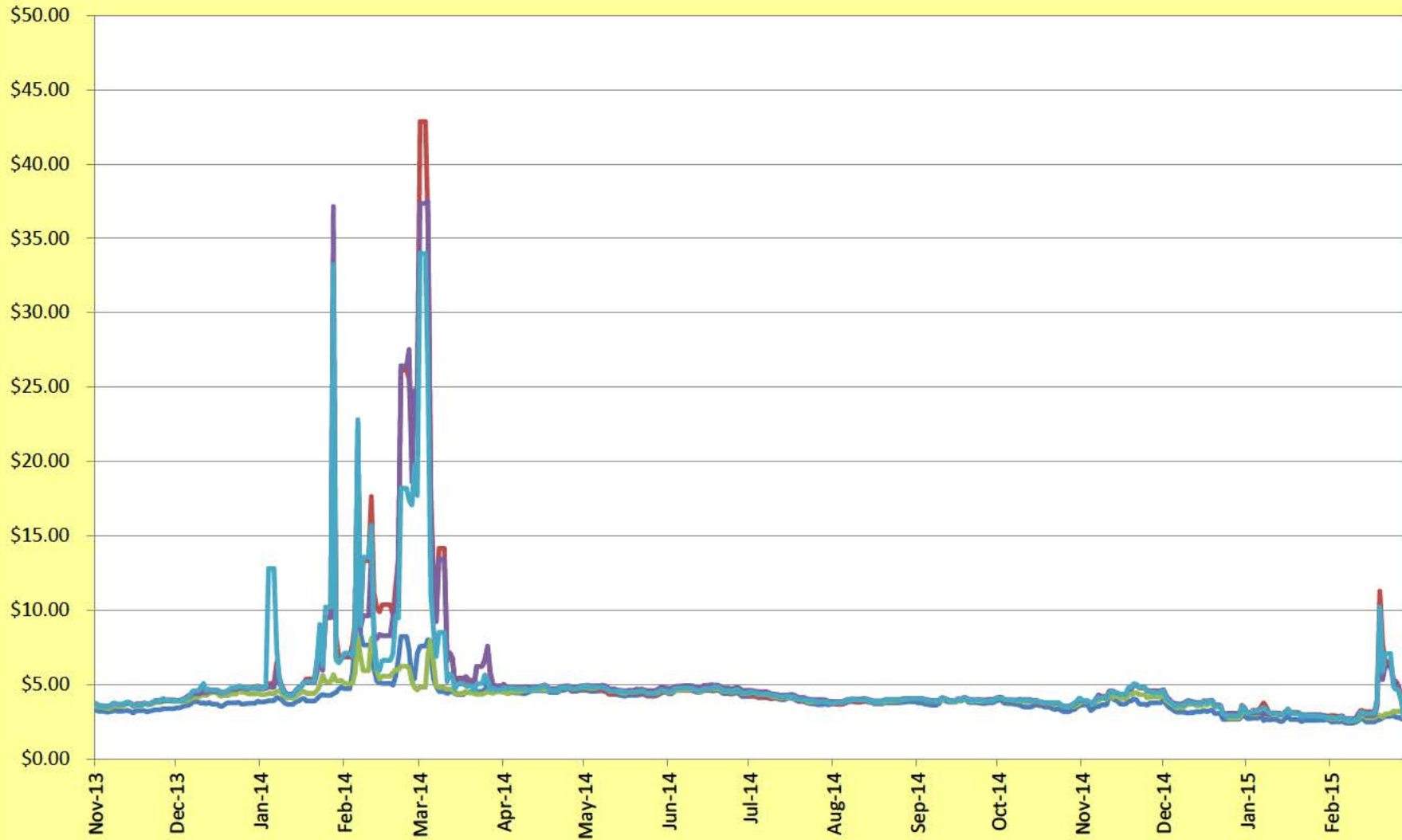
# Monthly Index Prices November 2012 thru February 2015

PUB/Centra INT-009 (c)  
Attachment 1



# Daily Index Prices November 2013 thru February 2015

PUB/Centra INT-009 (c)  
Attachment 2



— AECO (\$CDN/GJ) — Emerson (\$US/MMBTU) — NYMEX (\$US/MMBTU) — Michigan City Gate (\$US/MMBTU) — Chicago (\$US/MMBTU)

**PUB/Centra I-009(f)**

**Reference: Schedules 3.1.1 and 3.3.1 - Cost of Supply by Source**

**(f) Please explain the pricing calculations for Centra's Supplemental Gas purchases in 2012/13 and 2013/14 (i.e. based on daily or monthly index prices, how transportation costs for delivered services are determined, and all premiums paid).**

**ANSWER:**

Supplemental Gas may be acquired as:

- a) Monthly or seasonal purchases based on a monthly index, plus or minus a premium or discount;
- b) Daily purchases based on a daily index, plus or minus a premium or discount - these purchases are generally made under pre-contracted arrangements for variable swing and/or peaking supplies; or
- c) Daily fixed price purchases - these purchases are made in the daily spot market.

In all cases of purchasing Supplemental Gas, Centra engages in a competitive bidding process with multiple counterparties at multiple supply points to determine the most cost-effective means of serving the Manitoba load.

The range of premiums paid by Centra is commercially sensitive and will remain so regardless of the outcome of the RH-001-2014 proceeding. Public disclosure of this information would harm Centra's competitive position and expose its ratepayers to additional costs.

However, to illustrate the range of premiums paid on Supplemental Gas purchases, and recognizing the challenges and limitations in comparing supply arrangements that are indexed to different supply hubs, premiums or discounts paid in the 2012/13 Gas Year ranged from discounts of less than \$0.05 USD/Dth to premiums of less than \$0.05 USD/Dth at US supply hubs, and premiums of approximately \$0.55 CAD/GJ to premiums of less than \$0.75 CAD/GJ for AECO-indexed delivered services to the MDA (which included the flexibility of intra-day nominations).



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Recognizing the same challenges and limitations noted in the paragraph above, premiums or discounts paid in the 2013/14 Gas Year to the end of April 2014 ranged from index flat (i.e. no premium or discount) to premiums of less than \$0.70 USD/Dth [Emerson indexed to Empress] at US supply hubs, and premiums of less than \$0.25 USD/Dth to less than \$0.65 CAD/GJ for delivered services to the MDA indexed to MichCon and Empress, respectively.

As described in the response to PUB/Centra I-017(b), the landed cost of supply associated with a delivered service includes both the market value of the commodity and the embedded transport cost associated with delivering that gas to Centra's delivery areas. However, Centra is not privy to the particular transportation services that a counterparty may be using to effect a delivered service.

**PUB/Centra I-009(g)**

**Reference: Schedules 3.1.1 and 3.3.1 - Cost of Supply by Source**

**(g) Please explain any transportation constraints that affected Centra's ability to purchase Supplemental Gas from the lowest-cost hub in 2012/13 and 2013/14.**

**ANSWER:**

For the 2012/13 Gas Year, there were no physical transportation constraints that affected Centra's ability to purchase Supplemental Gas.

During the 2013/14 winter, the most notable physical transportation constraint occurred between the AECO hub and the East Gate (the interconnect between the Nova Gas Transmission Limited ("NGTL") System and the Canadian Mainline at Empress and the Foothills System at McNeill) during the month of March 2014.

NGTL had firm delivery capability of approximately 4.5 Bcf/day to the East Gate during the 2013/14 winter. Firm take-away transportation contracts (FT & STFT) for March 2014 at Empress totaled approximately 3.9 Bcf/day (in part due to TCPL's exercise of its pricing discretion) and 2.0 Bcf/day at McNeill. In order for interruptible transportation on NGTL to flow to the East Gate while firm flows are maximized, NGTL requires higher pressures on its southern system from gas withdrawals out of Alberta storage, as well as adequate pressure from production fields across Alberta to the East Gate. Because of low storage inventory levels (due to the colder than normal winter) and high take-away demands on both the Mainline and Foothills, interruptible transportation to the East Gate was restricted in March 2014. These IT restrictions on the AECO-Empress path caused the AECO-Empress daily basis differential to climb to more than \$24/GJ at the beginning of March 2014, resulting in extraordinarily high gas prices at Empress. The high prices at Empress, coupled with high-priced Mainline discretionary IT and STFT services to points downstream of Empress, caused delivered service and downstream commodity prices to rise to an even greater extent, with individual trades reported at Emerson in excess of \$60/GJ in early March. While day prices at the AECO hub ranged from approximately \$4/GJ to \$8/GJ during March 2014, the price of supply at hubs such as Empress and Emerson and delivered services traded at multiples of these price levels, at times, throughout the month.

**PUB/Centra INT-010(c)****Reference: Schedules 3.1.1 and 3.3.1 Interruptible Curtailments****(c) Please explain how Centra determines when to curtail Interruptible customers for operational or economic reasons.****ANSWER:**

Centra only curtails Interruptible customers for operational reasons, either to conserve storage gas for the firm load (i.e., curtailment due to a seasonal constraint) or to ensure that the firm load is met during colder than normal weather (i.e., curtailment due to a daily constraint).

**PUB/Centra INT-010(d)****Reference: Schedules 3.1.1 and 3.3.1 Interruptible Curtailments**

- (d) In the event of a curtailment, please confirm whether Centra curtails 100% of the gas supply to Interruptible customers or whether only a portion of the supply may be curtailed. If a portion of the supply is curtailed, please explain how the amount to be curtailed for each customer is determined.**

**ANSWER:**

In the event of a curtailment or provision of Alternate Supply Service, Centra curtails 100% of the gas supply to Interruptible customers.

**PUB/Centra INT-011(a)****Reference: Schedule 3.1.1 - Carrying Costs**

- (a) Please provide the source used to establish the 2.15% interest rate used for carrying costs.**

**ANSWER:**

The interest rate used for the carrying cost rate is based on the forecast 2014/15 T-Bill rate of 1.15%, from the Corporation's 2013 Economic Outlook (fall update), plus the 1% Provincial Guarantee Fee.

PUB/Centra INT-011(b)

Reference: Schedule 3.1.1 - Carrying Costs

(b) Please provide actual incurred carrying cost interest rates for May, June, and July and an updated forecast to October 2014.

ANSWER:

Please see the following table, which shows actual carrying cost rates for the months of May through October 2014.

---

	Actual	Actual	Actual	Actual	Actual	Actual
	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14
Carrying Cost Rate	1.92%	1.93%	1.94%	1.94%	1.92%	1.89%

**PUB/Centra I-012(a)**

**Reference: Schedule 3.2.0**

**(a) Please explain the nature of the variable TCPL transportation costs for the 2013/14 Current Outlook.**

**ANSWER:**

The variable TCPL transportation costs noted are costs incurred when Centra utilized its diversion rights on its Empress to SSSA contract in order to divert gas to the MDA. TCPL charges a variable rate when capacity is diverted to an alternate delivery location based on the differential in daily demand tolls.

**PUB/Centra INT-012(b)**

**Reference: Schedule 3.2.0**

**(b) Please update Schedule 3.2.0 incorporating actual results for May, June, July, and August (if available).**

**ANSWER:**

Please see schedule 3.3.0 of this Application, for a summary of Centra's 2013/14 actual gas costs up to and including October 31, 2014.



**PUB/Centra INT-013(a)****Reference: Schedule 3.3.1 – SG PGVA**

- (a). Please update Schedule 3.3.1 incorporating actual results for May, June, July, and August (if available).**

**ANSWER:**

Please see schedule 3.4.1 (a) of this Application for actual results for the entire 2013/14 gas year up to and including October 31/ 2014.

**PUB/Centra INT-014****Reference: Schedule 3.3.2 – Transportation PGVA****Please update Schedule 3.3.2 incorporating actual results for May, June, July, and August (if available).****ANSWER:**

Please see the schedule 3.4.2 (a) and (b) of this Application for actual figures for the full 2013/14 gas year up to and including October 31, 2014

**PUB/Centra INT-016(a)**

**Reference: Section 3 Schedules**

- (a) Please update and provide schedules similar to those filed in the 2011/12 Cost of Gas Application as Schedules 4.1.2(b), 4.1.3(b), 4.1.4(b), 4.3.1, and 4.4.2(a). For Schedules 4.1.2(b), 4.1.3(b), and 4.1.4(b), please provide explanations for any material variances.**

**ANSWER:**

The schedules noted above from Centra's 2011/12 Annual Cost of Gas Application, containing actual results for both the 2012/13 and 2013/14 gas years up to and including October 31, 2014, can be found in this Application as follows:

**4.1.2 (b)**

Provided in schedules 3.1.2 (b) and 3.4.1 (b) and 3.7.1 (b) of this Application, with variance analyses provided in Section 3.4.2 of Tab 3.

**4.1.3 (b)**

Provided in schedules 3.1.3 (b) and 3.4.2 (b) and 3.7.2 (b) of this Application, with variance Analyses provided in Section 3.4.3 of Tab 3.

**4.1.4 (b)**

Provided in schedules 3.1.4 (b) and 3.4.3 (b) and 3.7.3 (b) of this Application, with variance analyses provided in Section 3.4.4 of Tab 3.

**4.3.1**

Provided in Section 3.2 of Tab 3 of the Application and Appendices 3.7 and 3.8.

**4.4.2 (a)**

Provided in schedule 3.9.0 for the July 31, 2013 Prior Period Gas Cost Deferrals Account and schedule 3.10.0 for the October 31, 2014 Prior Period Gas Cost Deferrals Account in this Application.

**PUB/Centra INT-016(b)****Reference: Section 3 Schedules**

- (b) Please update and provide schedules similar to those filed in response to Directive 5 of Order 112/12 (June 13, 2013) (Centra Exhibit 6 from the 2013/14 GRA), Schedules 1 and 3 to 12. For pipeline contracts no longer in place, please file schedules pertaining to pipelines for which Centra currently has contracts.**

**ANSWER:**

Please see Appendices 3.7 and 3.8 of Tab 3 of the 2015/16 Cost of Gas Application.

**PUB/Centra I-017(c)**

**Reference: Section 3.0 p. 3 - TCPL**

**(c) Please identify which discretionary services TCPL priced at 55 times the equivalent firm toll and their corresponding dates and receipt or delivery points.**

**ANSWER:**

Interruptible Transportation (IT) service was priced by TCPL at 55 times the equivalent daily Firm Transportation (FT) toll. TCPL set IT bid floors at 5500% of the equivalent daily FT toll for the February 22, 23, 24, and 25, 2014 gas days for all 1,600 plus paths on the Mainline with the exception of the following:

- Western points to the Union SWDA (1600%)
- Western points to the Union SSMDA (1800%)
- Western points to Emerson1 and Emerson2 (3200%)

**PUB/Centra INT-018(a)****Reference: SENDOUT Model**

- (a) Please confirm whether Centra continues to use the software tool SENDOUT to assist with seasonal planning and optimization of Centra's supply, storage, and transportation portfolio.**

**ANSWER:****Confirmed.**

**PUB/Centra INT-018(b)****Reference: SENDOUT Model****(b) Please confirm whether SENDOUT is or was used to plan daily or monthly gas purchases.****ANSWER:**

Daily purchase decisions are made using current market information, thus SENDOUT is not used for daily dispatch. Centra uses SENDOUT to assist with the determination of potential market requirements in its seasonal and monthly planning.

**PUB/Centra INT-018(d)****Reference: SENDOUT Model****(d) Please indicate to what extent Centra back-tests the results it receives from SENDOUT with market actual prices.****ANSWER:**

Centra does not back-test the results it receives from SENDOUT with actual historical market prices. To do so and then rely on the results of the back-testing, would result in Centra designing a forward-looking supply plan that would be optimized to a unique combination of historical market conditions and prices that occurred in the past and are highly unlikely to reoccur again in the future, while the number of possible permutations of market conditions and prices that could occur in the future are essentially infinite.



**PUB/Centra INT-019(b)**

**Reference: General – Effective Degree Days Heating**

**(b) Please provide a table of forecasted EDDH (based on the 25 year average) and actual EDDH for the years 2006/07 to 2013/14.**

**ANSWER:**

The following tables display the monthly historical and forecasted DDH for the 2014 Natural Gas Forecast measured from the number of degrees colder than 14 degrees Celsius occurring each day.

Fiscal Year	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
2006/07	150.3	105.2	3.5	.5	.0	70.3	330.7	556.9	734.3	931.0	919.6	592.5	4,394.8
2007/08	296.6	82.7	15.5	.0	4.0	66.8	231.8	540.3	903.2	962.2	933.1	696.6	4,732.8
2008/09	319.8	180.9	21.3	.0	3.0	56.3	227.9	546.4	1,033.0	1,052.3	800.9	676.4	4,918.2
2009/10	321.4	177.1	47.4	3.8	2.4	19.8	330.1	396.9	895.9	860.1	793.6	451.1	4,299.6
2010/11	173.5	108.8	10.3	.0	9.0	79.9	188.7	520.6	878.1	1,031.2	788.9	698.8	4,487.8
2011/12	286.8	110.3	12.9	.0	.0	60.8	204.0	481.2	683.6	767.8	698.9	371.3	3,677.6
2012/13	244.3	82.7	9.9	.0	.0	89.1	310.9	601.1	889.6	951.1	781.7	770.8	4,731.2

**PUB/Centra INT-019(c)****Reference: General – Effective Degree Days Heating****(c) Please provide the actual monthly EDDH and normal EDDH from November 1, 2013 to August 2014.****ANSWER:**

Please see the response to PUB/Centra INT-019(b) for actual monthly EDDH values along with the normal EDDH used in the 2014 Natural Gas Forecast.

**PUB/Centra INT-020(a)**

**Reference: 2013/14 GRA Appendix 10.2, 10.6, 10.7 - Supply Stack and Operations Maps**

- (a) Please provide charts showing the peak day requirements for firm customers versus capacity for the 2012/13 and 2013/14 gas years similar to the one provided in the 2013/14 GRA as Appendix 10.2.**

**ANSWER:**

Please see Appendices 3.1, 3.2 and 3.3 of Tab 3 of the 2015/16 Cost of Gas Application for charts that illustrate the sources of supply that Centra would use to meet the design peak day requirements for its firm loads for the 2012/13, 2013/14 and 2014/15 Gas Years.

**PUB/Centra INT-020(b)**

**Reference: 2013/14 GRA Appendix 10.2, 10.6, 10.7 - Supply Stack and Operations Maps**

**(b). Please provide maps depicting Centra's summer and winter supply, transportation, and storage operations similar to those provided in the 2013/14 GRA as Appendices 10.6 and 10.7 and indicate any changes in supply, storage, or transportation operations from those depicted in Appendices 10.6 and 10.7.**

**ANSWER:**

Please see Appendices 3.5 and 3.6 of the 2015/16 Cost of Gas Application for maps depicting Centra's summer and winter operations.

Changes in Centra's Gas Portfolio since the 2013/14 GRA are outlined in detail in Section 3.1.3 of the Application.

**CAC/Centra INT-001(a)**

**Reference:** Application, page 2 of 10, lines 1 - 20

**Preamble:** In Board Order 85/13, the Board ordered in Directive 17 that Centra is to file an application to amend its cost of gas by January 31, 2014. Centra declined to do so, with its explanation set out in a letter to the Board dated January 29, 2014. Subsequently, Centra filed a letter on June 12, 2014 forecasting a net balance on the Non-Primary Gas cost deferral accounts at October 31, 2014 to be approximately \$45.7 million owing to Centra.

- (a). Please file the letter dated June 12, 2014 wherein Centra advised PUB that it was forecasting the net balance in a Non-Primary Gas cost of deferral accounts at October 31, 2014 to be approximately \$45.7 million owing to Centra.

**ANSWER:**

Please find the letter of June 12, 2014 attached to this response.





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June 12, 2014

PUBLIC UTILITIES BOARD OF MANITOBA  
400-330 Portage Avenue  
Winnipeg, Manitoba  
R3C 0C4

ATTENTION: Mr. H. M. Singh, Board Secretary and Executive Director

Dear Mr. Singh:

**Re: CENTRA GAS MANITOBA INC. (“Centra”)  
COST OF GAS UPDATE**

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On January 29, 2014, Centra filed a submission with the Public Utilities Board of Manitoba (“PUB”) in response to Directive 17 of Order 85/13, an Order arising from Centra’s 2013/14 General Rate Application (“GRA”). At that time, Centra estimated a forecast net balance in the non-Primary Gas Purchased Gas Variance Accounts (“PGVA”) and other gas cost deferral accounts as at October 31, 2014 of approximately \$0.3 million owing to Centra, which was not considered to be material.

During the 2014 winter heating season, Centra faced extreme weather conditions and unusual market circumstances which have resulted in a significantly higher forecast net balance owing to Centra, compared to Centra’s previous estimate. As a result, Centra is now forecasting that the net balance in the non-Primary Gas cost deferral accounts at October 31, 2014 will be approximately \$45.7 million owing to Centra. This letter provides an update with respect to gas costs for the 2012/13 and 2013/14 Gas Years as of the end of the 2014 winter season (April 30, 2014), and outlines Centra’s preliminary plans to apply for the recovery of the estimated net balance in the non-Primary Gas cost deferral accounts, through rate riders to be effective November 1, 2014.

#### **2012/13 & 2013/14 Gas Year Gas Cost Deferrals**

Centra's forecast non-Primary Gas cost deferral account balances as of October 31, 2014 (incorporating actual results up to and including April 30, 2014), including carrying costs, are as follows:

	<b>2012/13 Gas Year Balance</b> (Owing to customers)/Owing to Centra	<b>2013/14 Gas Year Balance</b> (Owing to customers)/Owing to Centra
Supplemental Gas PGVA	\$3.2 million	\$42.3 million
Transportation PGVA	(\$4.5 million)	\$5.8 million
Distribution PGVA	(\$1.6 million)	\$1.4 million
Heating Value Margin Deferral	(\$0.5 million)	(\$0.2 million)
<b>Total Non-Primary Gas Cost Deferrals at October 31, 2014</b>	<b>(\$3.4 million)</b>	<b>\$49.3 million</b>

As indicated above, the projected balance in Centra's 2012/13 non-Primary Gas PGVAs as at October 31, 2014 is \$3.4 million owing to customers, with an additional \$0.2 million is owing to customers in respect of the July 31, 2013 Prior Period Gas Cost Deferral Account<sup>1</sup>. The projected balance in Centra's 2013/14 non-Primary Gas PGVAs as at October 31, 2014 is \$49.3 million owing to Centra. Therefore, the forecast net total of all of Centra's gas cost deferrals at October 31, 2014 is estimated to be approximately \$45.7 million owing to Centra.

At the time of Centra's January 29, 2014 submission, it was estimated that the forecast net balance would be approximately \$0.3 million owing to Centra. This estimate was based on the actual October 31, 2013 balance in the 2012/13 Gas Year gas cost deferral accounts, including forecast carrying costs to October 31, 2014, and on the forecast 2013/14 Gas Year non-Primary Gas costs (based on future market prices as of November 1, 2013) that would remain unrecovered through existing non-Primary Gas base rates at the end of the 2013/14 Gas Year.

During the months of February and March 2014, natural gas prices increased significantly and were highly volatile at delivery points served either directly or indirectly off of the TransCanada Pipelines Ltd. ("TCPL") Mainline as a result of a combination of extreme cold weather throughout North America and extraordinarily high TCPL discretionary transportation services tolls. As Centra indicated in its January 29, 2014 submission, the National Energy Board, in its RH-003-2011 decision, provided unfettered discretion to TCPL on the pricing of short-term discretionary Mainline transportation services. Throughout February and March 2014, TCPL set bid floors to transport gas on a short-term basis as high as 55 times the daily equivalent Firm Transportation toll, thereby driving up commodity prices to unprecedented levels in downstream markets inter-connected with the Mainline. As a result of these pressures, Centra incurred costs for peaking supplies of up to \$70/GJ during the February to March period.

Centra's exposure to these price increases has been primarily in respect of Supplemental Gas peaking supplies purchased on the spot market to maintain deliverability to its firm customers during exceptionally cold weather conditions. Approximately \$42 million of the net forecast 2013/14 non-Primary Gas PGVA balance, as of October 31, 2014, is associated with the Supplemental Gas PGVA, while approximately \$6 million is associated with the Transportation PGVA. Higher costs for Supplemental supplies are the driver of the variance

<sup>1</sup> This account reflects amounts related to prior period deferral account balances pertaining to the 2010/11 and 2011/12 Gas Years.

in the Supplemental Gas PGVA. During the period of January to March 2014, the average unit cost of Supplemental supplies delivered to the load was \$8.04/GJ, compared to a weighted average cost of gas of \$4.12/GJ embedded in the existing Supplemental Gas base rates. As well, high imputed transportation costs on Delivered Service purchases have driven most of the variance in the Transportation PGVA.

Centra is currently considering its options with respect to recovering the net forecast non-Primary Gas cost deferral accounts balance of \$45.7 million owing to Centra and will file an application later this summer requesting interim approval to implement new rate riders effective November 1, 2014. Consideration is being given to recovering these amounts over a period longer than the traditional 12 months, such as recovery over a 24-month period.

Centra implemented rate riders effective August 1, 2013 to dispose of the accumulated balance in the various non-Primary Gas PGVAs and other gas cost deferral accounts for both the 2010/11 and 2011/12 Gas Years. These rate riders were approved by Order 89/13 and are set to expire on July 31, 2014. Centra will make an Application with the PUB with respect to these rate riders concurrent with its August 1, 2014 Primary Gas Application, expected to be filed in July 2014, which may contemplate extending the existing riders to October 31, 2014.

Copies of this letter have also been provided to the PUB advisors. If you have any questions with respect to this letter, please contact the writer at 204-360-3257 or Greg Barnlund at 204-360-5243.

Yours truly,

**MANITOBA HYDRO LAW DIVISION**

Per:



Brent A. Czarnecki  
Barrister and Solicitor

cc: Mr. B. Peters, Fillmore Riley  
Mr. R. Cathcart, Cathcart Advisors Inc.  
Mr. B. Ryall, Ryall Engineering



**CAC/Centra INT-001(b)**

**Reference:** Application, page 2 of 10, lines 1 - 20

**Preamble:** In Board Order 85/13, the Board ordered in Directive 17 that Centra is to file an application to amend its cost of gas by January 31, 2014. Centra declined to do so, with its explanation set out in a letter to the Board dated January 29, 2014. Subsequently, Central filed a letter on June 12, 2014 forecasting a net balance on the Non-Primary Gas cost deferral accounts at October 31, 2014 to be approximately \$45.7 million owing to Centra.

- (b). Explain the reason for the change in a Supplemental Gas PGVC forecast of (\$1,571,918) at January 29, 2014 owing to the customers and \$45.7 million owing to Centra at June 12, 2014.

**ANSWER:**

Please see the response to PUB/Centra INT-1(a).

**CAC/Centra INT-001(c)**

**Reference:** Application, page 2 of 10, lines 1 - 20

**Preamble:** In Board Order 85/13, the Board ordered in Directive 17 that Centra is to file an application to amend its cost of gas by January 31, 2014. Centra declined to do so, with its explanation set out in a letter to the Board dated January 29, 2014. Subsequently, Centra filed a letter on June 12, 2014 forecasting a net balance on the Non-Primary Gas cost deferral accounts at October 31, 2014 to be approximately \$45.7 million owing to Centra.

**(c). Why were actuals not used in the forecasts in the January 29, 2014 letter to the extent they were known?**

**ANSWER:**

At the time that the materials discussed in Centra's January 29, 2014 letter were prepared, no actual results for the 2013/14 gas year were known.

CAC/Centra INT-002(a)(i)

**Reference:** Application, page 3, lines 1-11

**Preamble:** In the referenced paragraph Centra indicates that gas prices during the January-March 2014 winter period were unusually high and volatile. Centra attributes this to cold weather, declining storage inventories, and extraordinarily high TransCanada Mainline short term transportation tolls related to the effective deregulation of those tolls by the NEB in the RH-003-2011 Decision.

**(a)(i)** Please explain why “extraordinarily high TCPL discretionary transportation services tolls” (line 5) resulted in high gas commodity prices at hubs served directly or indirectly off of the TransCanada Mainline system.

**ANSWER:**

The NEB’s RH-003-2011 Decision provided TCPL with unlimited discretion in the pricing of Mainline IT and STFT services. In its Decision, the NEB stated the following:

*Moreover, we are of the view that the ability of TransCanada to charge for discretionary services at whatever level will be constrained. All shippers purchasing FT service at recourse rates may resell capacity in the secondary market to mitigate demand charges. And, as indicated by ANE, it is unlikely there will be many days when TransCanada will be able to achieve pricing for IT and STFT service over a pricing level of 300 per cent for the FT toll. (p. 127)*

Due to the very cold weather experienced during the 2013/14 winter, combined with the resulting high demand for natural gas and declining storage inventories in North America, the secondary market was unable to constrain TCPL’s pricing discretion from contributing to unprecedented high prices at Mainline hubs and other nearby hubs in the US Upper Midwest. The secondary market includes holders of FT contracts on the Mainline who can either re-sell transportation capacity to hubs such as Emerson or Dawn on the Mainline, or use the capacity to sell gas at these hubs to downstream buyers (i.e., the two activities are direct substitutes for one another). Under the high demand conditions of the 2013/14 winter, rather than the secondary market constraining TCPL’s IT bid floor pricing to Mainline hubs,



TCPL's IT bid floors raised the price ceiling at which secondary market participants could sell gas at these hubs. This occurred despite historically high FT contract levels held to Emerson on the Mainline during the 2013/14 winter, which could reasonably have been expected to increase competition in the selling of gas at Emerson and/or the selling of transportation capacity to Emerson. TCPL was ultimately able to sell Mainline IT at exceptionally high prices to Emerson and Dawn during the 2013/14 winter, at 4500% and 5500% of the daily equivalent FT toll to these hubs, respectively.

TCPL's pricing discretion also contributed to unprecedented high gas prices in the US Upper Midwest. This region also experienced very cold weather during the 2013/14 winter, resulting in high demand for natural gas. Gas flowing on the Mainline to Emerson serves markets in this region and is a contributor to the region's overall natural gas supply. High Emerson prices therefore influenced U.S. Upper Midwest gas prices at hubs in Chicago and Michigan during high demand conditions. High demand and gas prices at the nearby Dawn hub, also placed upward price pressure on gas supplies in the region.

**CAC/Centra INT-002(c)****Reference:** Application, page 3, lines 1-11**Preamble:** In the referenced paragraph Centra indicates that gas prices during the January-March 2014 winter period were unusually high and volatile. Centra attributes this to cold weather, declining storage inventories, and extraordinarily high TransCanada Mainline short term transportation tolls related to the effective deregulation of those tolls by the NEB in the RH-003-2011 Decision.

- (c). 5B For each month during the 2013/14 gas year, please provide actual and, where applicable, forecast monthly gas price index values for the following points:
- (i) AECO/NIT
  - (ii) Empress (or an Empress/AECO transportation differential)
  - (iii) Emerson
  - (iv) Chicago
  - (v) Dawn

**ANSWER:**

Please see the response to PUB/Centra INT-009(b).

**CAC/Centra INT-002(d)**

**Reference:** Application, page 3, lines 1-11

**Preamble:** In the referenced paragraph Centra indicates that gas prices during the January-March 2014 winter period were unusually high and volatile. Centra attributes this to cold weather, declining storage inventories, and extraordinarily high TransCanada Mainline short term transportation tolls related to the effective deregulation of those tolls by the NEB in the RH-003-2011 Decision.

**(d).** For the months of January, February, and March 2014 please provide the observed daily index values for the points referred to in (a).

**ANSWER:**

Please see the response to PUB/Centra INT-009(b).

**CAC/Centra INT-002(e)****Reference: Application, page 3, lines 1-11****Preamble: In the referenced paragraph Centra indicates that gas prices during the January-March 2014 winter period were unusually high and volatile. Centra attributes this to cold weather, declining storage inventories, and extraordinarily high TransCanada Mainline short term transportation tolls related to the effective deregulation of those tolls by the NEB in the RH-003-2011 Decision.****(e). Does Centra believe that the NEB's policy of allowing TransCanada to set short term transportation tolls for the Mainline on a discretionary basis as provided for in the NEB's RH-003-2011 Decision results in just and reasonable short term tolls? Why or why not?****ANSWER:**

Centra is not in a position to comment on whether any particular tolls are just and reasonable. Centra has ongoing concerns about the impact of Mainline pricing discretion on downstream commodity prices and other potential market impacts.



CAC/Centra INT-002(f)-(g)

**Reference:** Application, page 3, lines 1-11

**Preamble:** In the referenced paragraph Centra indicates that gas prices during the January-March 2014 winter period were unusually high and volatile. Centra attributes this to cold weather, declining storage inventories, and extraordinarily high TransCanada Mainline short term transportation tolls related to the effective deregulation of those tolls by the NEB in the RH-003-2011 Decision.

- (f) What position has Centra taken, or does it intend to take, on the appropriateness of TransCanada's unlimited pricing discretion for discretionary services in the RH-001-2014 proceeding before the NEB? Please also summarize Centra's position in that case on the other issues that are before the NEB.
- (g) Please provide a copy of any evidence or any written submission or other filings Centra has filed or intends to file in the RH-001-2014 proceeding.

ANSWER:

Centra's position with respect to TransCanada's pricing discretion was placed on the record of the RH-001-2014 proceeding. Please find the evidence filed by Centra with the National Energy Board in the RH-001-2014 proceeding at the link below:

<https://docs.neb-one.gc.ca/ll-eng/llisapi.dll?func=ll&objId=2456580&objAction=browse&viewType=1> <https://docs.neb-one.gc.ca/ll-eng/llisapi.dll?func=ll&objId=2456580&objAction=browse&viewType=1>



CAC/Centra INT-002(i)

**Reference:** Application, page 3, lines 1-11

**Preamble:** In the referenced paragraph Centra indicates that gas prices during the January-March 2014 winter period were unusually high and volatile. Centra attributes this to cold weather, declining storage inventories, and extraordinarily high TransCanada Mainline short term transportation tolls related to the effective deregulation of those tolls by the NEB in the RH-003-2011 Decision.

- (i). Has Centra or any shipper or pipeline to Centra's knowledge contacted or lodged a complaint with the Canadian Federal Competition Tribunal concerning TransCanada's abuse of its monopoly power in the setting of short term transportation tolls during the 2013/14 winter? If not, is that, or a similar, course of action being contemplated by Centra?

ANSWER:

Centra is not aware of any shipper or pipeline company lodging a complaint with the Canadian Federal Competition Tribunal with respect to TCPL's pricing discretion.

Centra pursued this matter vigorously through its intervention before the NEB.

**CAC/Centra INT-002(j)****Reference:** Application, page 3, lines 1-11**Preamble:** In the referenced paragraph Centra indicates that gas prices during the January-March 2014 winter period were unusually high and volatile. Centra attributes this to cold weather, declining storage inventories, and extraordinarily high TransCanada Mainline short term transportation tolls related to the effective deregulation of those tolls by the NEB in the RH-003-2011 Decision.

- (j). Please confirm that the majority of the balance in the Supplemental Gas PGVA is attributable to price effects, i.e. actual purchase prices being much higher than forecast, rather than volume effects, as Centra has already recovered higher costs driven by higher volumes through rates, i.e. through higher “WACOG outflows”. If not confirmed, please explain.

**ANSWER:**

Confirmed.

**CAC/Centra INT-003(a)**

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 1, “Supplemental U.S. Supply”.

**Preamble:** The referenced line in the Schedule summarizes purchases of “U.S. Supply” on an actual and forecast basis for the 2013/14 gas year.

- (a). Please provide a breakdown, for each month from November 2013 to April 2014, of Centra's purchases of Supplemental U.S. supply by delivery point (to Centra) showing, for each delivery point, total GJ's purchased, total cost, and unit cost. Please also show the total GJ's of U.S. supply purchased and the weighted average unit cost of those supplies.

**ANSWER:**

Please see the responses to PUB/Centra INT-009(a) and (d).

**CAC/Centra INT-004(a)**

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 2, “Storage Gas - Supplemental Supply”

**Preamble:** The referenced line in the Schedule summarizes by month Centra's use of Supplemental Gas held in storage.

**(a).** Please show, for each of January, February, and March 2014, total GJ's of Supplemental Gas storage gas withdrawn and transported to Centra's system, unit cost by month, and total cost.

**ANSWER:**

Please see the response to PUB/Centra INT-004(d).

**CAC/Centra INT-004(b)**

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 2, “Storage Gas - Supplemental Supply”

**Preamble:** The referenced line in the Schedule summarizes by month Centra's use of Supplemental Gas held in storage.

- (b).** Please confirm that the unit costs shown in the response to (a) reflect the historical embedded cost of Supplemental Gas storage volumes injected during the 2013 injection season and as “refill” during the 2013/14 withdrawal season. If not confirmed, please explain.

**ANSWER:**

Please the responses to PUB/Centra INT-004(d) and (e).



**CAC/Centra INT-004(c)**

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 2, “Storage Gas - Supplemental Supply”

**Preamble:** The referenced line in the Schedule summarizes by month Centra's use of Supplemental Gas held in storage.

- (c).** For the 2013/14 November 1 - March 31 period, please provide a schedule showing Centra's Primary Gas and Supplemental Gas storage inventories as of November 1, 2013; monthly withdrawals of Primary Gas and Supplemental Gas storage volumes; monthly injections of Primary Gas and Supplemental Gas storage volumes; and Primary Gas and Supplemental Gas storage inventories at the end of each month during the period.

**ANSWER:**

Please see the responses to PUB/Centra INT-004(a) and (d).

**CAC/Centra INT-004(d)**

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 2, “Storage Gas - Supplemental Supply”

**Preamble:** The referenced line in the Schedule summarizes by month Centra's use of Supplemental Gas held in storage.

**(d). What were the embedded WACOG costs associated with Primary Gas and Supplemental Gas storage inventories at November 1, 2013 and March 31, 2014?**

**ANSWER:**

Please see the response to PUB/Centra INT-004(d).

**CAC/Centra INT-004(f)**

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 2, “Storage Gas - Supplemental Supply”

**Preamble:** The referenced line in the Schedule summarizes by month Centra's use of Supplemental Gas held in storage.

**(f).** Please provide Centra's best current estimate of the embedded Primary Gas and Supplemental Gas storage WACOG's going into the 2014/15 withdrawal season at November 30, 2014.

**ANSWER:**

As at October 31, 2014 (i.e., the end of Centra's injection season), Centra's storage WACOGs were as follow:

- Primary Gas                      \$3.9920 CAD/GJ
- Supplemental Gas                \$4.7389 CAD/GJ
- Storage Transportation        \$0.1631 CAD/GJ



CAC/Centra INT-005(a)

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 3, “Supplemental Gas Peaking Delivered Service”; Schedule 3.3.2, 2013/14 Transportation PGVA, at line 18, “Supplemental Gas Peaking Delivered Service Imputed Transportation Cost”; Schedule 3.1.2, 2012/13 Transportation PGVA, at line 18, “Primary Gas Delivered Service Imputed Transportation Cost”.

**Preamble:** The referenced line in Schedule 3.3.1 summarizes by month Centra's use of Supplemental Gas Peaking Delivered Service, while the referenced line in Schedule 3.3.2 sets out “imputed transportation costs” for those volumes. Line 18 in Schedule 3.1.2 sets out imputed transportation costs for Primary Gas Delivered Service for the 2012/13 gas year.

(a). Please provide a description of “imputed transportation costs”.

ANSWER:

Supplemental Gas Peaking Delivered Service Imputed Transportation Costs are the amount remaining after deducting estimated embedded commodity costs based on the AECO Monthly 7A Index Price and the Monthly AECO to Empress Transportation Basis Differential Index Price from the fully loaded unit cost of Supplemental Gas Peaking Delivered Service supplies.

Primary Gas Delivered Service Imputed Transportation Costs are the amount remaining after the deduction of estimated embedded commodity and upstream compressor fuel costs based on the AECO Monthly 7A Index Price and the monthly AECO to Empress Transportation Basis Differential Index Price from the fully loaded cost of Primary Gas Delivered Service supplies. Estimated upstream compressor fuel costs are included in commodity cost calculation when determining Imputed Transportation Costs for Primary Gas Delivered Services in order to maintain consistency with the principles underlying the design of the Quarterly Variable Primary Gas Rate. This rate reflects the costs of Primary Gas delivered at the Empress receipt point, plus TCPL Mainline compressor fuel to deliver these supplies to Centra’s distribution system in Manitoba, which are reflected in the rates charged to customers for all Primary Gas products in Manitoba, whether supplied by Centra or natural gas marketers.

**CAC/Centra INT-005(d)**

**Reference:** Schedule 3.3.1, 2013/14 Supplemental Gas PGVA, at line 3, “Supplemental Gas Peaking Delivered Service”; Schedule 3.3.2, 2013/14 Transportation PGVA, at line 18, “Supplemental Gas Peaking Delivered Service Imputed Transportation Cost”; Schedule 3.1.2, 2012/13 Transportation PGVA, at line 18, “Primary Gas Delivered Service Imputed Transportation Cost”.

**Preamble:** The referenced line in Schedule 3.3.1 summarizes by month Centra's use of Supplemental Gas Peaking Delivered Service, while the referenced line in Schedule 3.3.2 sets out “imputed transportation costs” for those volumes. Line 18 in Schedule 3.1.2 sets out imputed transportation costs for Primary Gas Delivered Service for the 2012/13 gas year.

**(d). Please confirm that the delivery point for Supplemental Gas Peaking Delivered Service is Centra's system. If not confirmed, please explain.**

**ANSWER:**

Confirmed. Centra receives delivered services either at the Centram MDA or Centram SSDA.

**CAC/Centra INT-007(a)(i)**

**Reference:** Schedule 3.3.2, 2013/14 Transportation PGVA, at line 4, “TCPL”

**Preamble:** The referenced line sets out Centra's actual and forecast fixed costs for TransCanada Mainline transportation services for the 2013/14 gas year.

**(a)(i) Please explain in detail Centra's TransCanada Mainline current contracted (i.e. contracted with TransCanada rather than other counterparties) transportation entitlements.**

**ANSWER:**

Please see the response to CAC/Centra INT-007(a), part (ii).



**CAC/Centra INT-007(a)(ii)**

**Reference:** Schedule 3.3.2, 2013/14 Transportation PGVA, at line 4, “TCPL”

**Preamble:** The referenced line sets out Centra's actual and forecast fixed costs for TransCanada Mainline transportation services for the 2013/14 gas year.

**(a)(ii) Please identify and explain the rationale for all changes to Centra's Mainline contracted portfolio since Centra's cost of gas was last reviewed by the Board.**

**ANSWER:**

Changes to Centra’s Mainline portfolio and the rationale for same are outlined in narrative form in Section 3.1.3 of the 2015/16 Cost of Gas Application.

Centra’s Mainline portfolio for the 2012/13 and 2013/14 Gas Years are illustrated in the response to PUB/Centra INT-017(a), as filed in confidence with the PUB on October 15, 2014. Centra’s Mainline portfolio for the 2014/15 Gas Year is provided in the attachment to this response.

**CAC/Centra INT-007(b)**

**Reference:** Schedule 3.3.2, 2013/14 Transportation PGVA, at line 4, “TCPL”

**Preamble:** The referenced line sets out Centra's actual and forecast fixed costs for TransCanada Mainline transportation services for the 2013/14 gas year.

**(b). Does Centra expect to further modify its TransCanada Mainline transportation portfolio for the 2014/15 gas year? If so, please explain what changes are expected and the rationale for them.**

**ANSWER:**

Please see the response to CAC/Centra INT-007(a)(ii).

**CAC/Centra INT-008(a)(i)**

**Reference:** Application, page 8

**Preamble:** In the referenced paragraph Centra indicates that it has “...adjusted the volume and demand forecast for rate rider determination purposes in order to reflect the migration of eight former Interruptible customers to Firm service as of November 1, 2013.” At lines 17 – 32, Centra also indicates that it is proposing a special lower rate rider for customers who convert from Interruptible to Firm service on or after May 1, 2014, since those customers did not contribute to the accumulation of the large Supplemental Gas PGVA balances.

**(a)(i)** Please explain in detail the nature of and rationale for the adjustments that were made.

**ANSWER:**

Please see Centra’s to the response to PUB/Centra INT-7(g).

CAC/Centra INT-008(a)(ii)

Reference: Application, page 8

**Preamble:** In the referenced paragraph Centra indicates that it has “...adjusted the volume and demand forecast for rate rider determination purposes in order to reflect the migration of eight former Interruptible customers to Firm service as of November 1, 2013.” At lines 17 – 32, Centra also indicates that it is proposing a special lower rate rider for customers who convert from Interruptible to Firm service on or after May 1, 2014, since those customers did not contribute to the accumulation of the large Supplemental Gas PGVA balances.

**(a)(ii)** Please include actual or sample calculations illustrating the adjustments, and an estimate of the dollar impact of the adjustments on the costs allocated to Firm service and/or resulting unit rates.

ANSWER:

Please refer to the response to PUB/Centra INT-7(g) and the following table which provides rate riders with and without adjustments to Load Forecast for the impacted customer classes.

1	Rate Riders	Based on 2013 Load Forecasts (\$/m3)	Based on adjusted 2013 Load Forecasts (\$/m3)
2			
3	HVF		
4	<u>Transportation</u>		
5	Demand	0.1923	0.1796
6	Commodity	(0.0118)	(0.0107)
7	<u>Distribution</u>		
8	Demand	0.0006	0.0005
9	Commodity	(0.0004)	(0.0003)
10			
11	INT		
12	<u>Transportation</u>		
13	Demand	0.0099	0.0110
14	Commodity	(0.0050)	(0.0058)
15	<u>Distribution</u>		
16	Demand	0.0003	0.0004
17	Commodity	0.0003	0.0003
18			
19	<u>Supplemental (incl in Distribution rate)</u>		
20	Firm	0.0175	0.0174
21	Interruptible	0.0045	0.0052



CAC/Centra INT-008(b)

**Reference:** Application, page 8

**Preamble:** In the referenced paragraph Centra indicates that it has &quot;...adjusted the volume and demand forecast for rate rider determination purposes in order to reflect the migration of eight former Interruptible customers to Firm service as of November 1, 2013.&quot; At lines 17 – 32, Centra also indicates that it is proposing a special lower rate rider for customers who convert from Interruptible to Firm service on or after May 1, 2014, since those customers did not contribute to the accumulation of the large Supplemental Gas PGVA balances.

(b). At lines 24 – 32, Centra indicates that without special treatment of converting Interruptible customers those customers could be significantly impacted by the proposed interim rate riders. Please explain in more detail how that impact would arise and provide actual or illustrative calculations showing the impact and how large that impact would be expected to be.

**ANSWER:**

In absence of a temporary rate rider treatment, Interruptible customers who migrated or will migrate to firm service would otherwise be required to contribute to the approximate \$45.9 million balance compared to the approximate \$0.8 million residual that accumulated on behalf of Interruptible customers.

These Interruptible customers were largely curtailed during the run up in the Supplemental Gas PGVA and purchased Alternate Supply Service at the prevailing market price through that period of time at a total cost of approximately \$6.5 million.



**JEMLP/Centra INT-001**

**Will the proposed Non- Primary Gas Rate Rider increase be equal/equivalent for all Direct Purchase, System Supply and Centra customers on a Fixed Price Offering in the same rate class?**

**ANSWER:**

Yes.

**JEMLP/Centra INT-002**

**Will there be a rate impact to Primary gas commodity customers who have opted to receive commodity service through system supply or Fixed Price offerings by the utility that is effective November 2014?**

**ANSWER:**

The Non-Primary Gas rate changes proposed in this Application are applicable to all of Centra's customers regardless of their choice of gas supplier. There are no proposed changes to Centra's quarterly Primary Gas rates or Centra's rates for FRPGS offerings in this Application.

**JEMLP/Centra INT-003**

**Please explain how the amount in the Non-Primary Gas Rate Rider deferral account got to such a significant dollar amount and why the appropriate action was not taken when the balance was deemed material.**

**ANSWER:**

In Centra's view, the appropriate action was taken as is noted in Centra's response to PUB/Centra INT-001(e)-(g), which provides a discussion regarding Centra's actions to dispose of the non-Primary Gas deferral account balances accumulated during this period.

Please see Centra's response to PUB/Centra INT-001(a) for a discussion of the circumstances that resulted in the accumulation of the Supplemental deferral account balance during the January through March 2014 period.

**JEMLP/Centra INT-004**

**Please explain why the deferral account was not adjusted in a timelier manner in order for to allow consumer the opportunity to better view and reflect on the actual gas cost experience?**

**ANSWER:**

Please see Centra's responses to PUB/Centra INT-001(e)-(g).

**JEMLP/Centra INT-005**

**Does Centra believe that the company acted prudently with respect to the Non-Primary Gas deferral account clearing request? Did the company have a responsibility to bring the deferral account balance issue forward at the time the company deemed it to be material in nature?**

**ANSWER:**

Yes, Centra acted prudently with respect to the timing and treatment of the non-Primary Gas deferral accounts.

Please see Centra's responses to PUB/Centra INT-001(e)-(g).

**JEMLP/Centra INT-006**

**Has Centra changed any of its practices as a result of the Non-Primary Gas deferral account balance?**

**ANSWER:**

Please see Centra's response to CAC/Centra I-2(b)(i) for a discussion of the adjustments Centra made to its gas supply plan.

**JEMLP/Centra INT-007(a)**

- (a) **Please provide a schedule that shows the number of customers, average use and volumes for the past 2 years and the projected information for the next 3 years by customer class. Please include a break down for Centra's variable rate, Centra's fixed price and Direct Purchase customers.**

**ANSWER:**

Please see the schedules provided to Tab 4 of the Application.



**JEMLP/Centra INT-007(b)**

**(b) Please provide the percentage and volume breakdown split by Residential and Commercial customers that have opted for System Supply, WTS (DP) and Fixed Rate Primary Gas Service since the FRPGS service began.**

**ANSWER:**

The following tables provide the percentage of Residential and Commercial customers at fiscal year end opting for System Supply, WTS and Fixed Rate Primary Gas Service since the inception of FRPGS in 2009.

For the number of customers, actual volume and weather adjusted volumes, please see the response to PUB/Centra INT-005(a).

Fiscal Yr	SGS Residential Year End Customers			Number of Customers
	Fixed Rate	WTS	System Supply	
2008/09	0.0%	17.0%	83.0%	238,273
2009/10	0.1%	14.4%	85.5%	239,534
2010/11	0.1%	10.4%	89.4%	241,122
2011/12	0.2%	6.6%	93.3%	242,812
2012/13	0.1%	6.3%	93.5%	244,767
2013/14	0.1%	5.6%	94.2%	247,010
2014/15	0.1%	5.8%	94.1%	249,313

Fiscal Yr	SGS Commercial Year End Customers			Number of Customers
	Fixed Rate	WTS	System Supply	
2008/09	0.0%	7.6%	92.4%	15,945
2009/10	0.1%	6.5%	93.4%	16,774
2010/11	0.1%	6.1%	93.8%	16,816
2011/12	0.1%	5.6%	94.4%	16,832
2012/13	0.1%	5.2%	94.8%	16,893
2013/14	0.0%	4.6%	95.4%	17,007
2014/15	0.0%	4.1%	95.9%	17,186



Fiscal Yr	LGS Commercial Year End Customers			
	Fixed Rate	WTS	System Supply	Number of Customers
2008/09	0.0%	12.0%	88.0%	6,442
2009/10	0.6%	11.1%	88.3%	6,926
2010/11	0.5%	13.2%	86.3%	6,796
2011/12	0.5%	12.9%	86.6%	6,854
2012/13	0.6%	12.8%	86.7%	6,920
2013/14	0.2%	11.9%	87.9%	7,094
2014/15	0.3%	7.3%	92.4%	7,558

**JEMLP/Centra INT-008**

**Does centra plan to do anything differently with respect to supplementary gas purchasing and storage in the coming years.**

**ANSWER:**

Please refer to the response provided in CAC/Centra INT-002(b)(i).