



Decoupling Evaluation Report

Docket G-008/GR-13-316

Docket G-008/M-18-____

Evaluation Period: 7/1/17 – 6/30/18

9/4/2018

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CenterPoint Energy Minnesota Gas Revenue Decoupling Rider Evaluation Report

A. EXECUTIVE SUMMARY

CenterPoint Energy Resources Corp, d/b/a/ CenterPoint Energy Minnesota Gas (CenterPoint Energy Minnesota Gas, CenterPoint Energy or the Company) submits this Evaluation Report for its Revenue Decoupling Rider (RD Rider) to the Minnesota Public Utilities Commission (Commission or PUC). In the Company's 2013 Rate Case,¹ the Commission authorized the Company to implement a full RD Rider.² In the Company's 2017 Rate Case,³ the Commission authorized the Company to implement a modified RD Rider.⁴

As required by the 2013 Rate Case Order, CenterPoint Energy Minnesota Gas filed a compliance filing (Decoupling Compliance Filing) in the 2013 Rate Case that included a proposed annual Evaluation Plan, Communication Plan, and Implementation Plan on October 14, 2014. The Communication Plan was accepted in the Commission's March 23, 2015 Order and the Decoupling Compliance Filing, including the proposal for updating the decoupling mechanism when potential future interim rates are in place, was accepted in the Commission's March 31, 2015 Order.

This Evaluation Report provides the information and analysis required in the Evaluation Plan. Additionally, we are providing an update on the efforts to communicate with customers about decoupling.

¹ Docket No. G-008/GR-13-316

² Ordering Point 3 in the Commission's June 9, 2014 Order in Docket No. G-008/GR-13-316, CenterPoint Energy Minnesota Gas tariff book: Section V, page 28, 28.a

³ Docket No. G-008/GR-17-285

⁴ Ordering Point 1 in the Commission's July 20, 2018 Order in Docket No. G-008/GR-17-285, Docket No. G-008/GR-17-285, March 7, 2018 Offer of Settlement, page 26

In this Evaluation Report, the data and supporting calculations for the decoupling adjustment factors that will be implemented on customer bills effective September 1, 2018 are provided. The actual customer count and sales volumes are used to calculate revenue. The revenue, referred to in the model as “non-gas margin” reflects the basic delivery charge and the base per-therm delivery charge less Conservation Improvement Program (CIP) and Gas Affordability Program (GAP) charges. The actual non-gas revenue is compared to the authorized revenue that results from the authorized number of customers and sales volumes in a rate class.⁵ Any excess revenue will be returned to customers, and any revenue shortfall, up to ten percent of non-gas margin including GAP, will be surcharged over the next 12-month period.

For the reporting period, July 2017 through June 2018, the Company incurred an overall revenue over collection of \$13,400,002, and over recovered when collecting the decoupling adjustment balance from the July 2016-June 2017 pilot year of \$404,507.⁶ Customers consumed more natural gas than anticipated, which resulted in greater bills overall. The decoupling adjustment surcharge will allow the refund of the non-gas margins due to higher-than-expected sales. As a high-level estimate, residential customers used approximately 4.3 million more dekatherms than anticipated in the third pilot year, and the average customer used 94.9 DT, while weather-normal use-per-customer (UPC) was expected at 89.4 DT over the study period. The total decoupling refund for the residential class is about \$8.5 million, or about \$10.75 per customer.

In the Decoupling Compliance Filing the Company proposed that interim rates be reflected in the decoupling model beginning in the first full month that interim rates were charged.⁷ Interim rates in the 2017 Rate Case started October 1, 2017. Because the

⁵ As noted in the RD Rider tariff page (Section V, page 28.a paragraph 4), authorized revenue is determined to be the Authorized Revenue Per Customer multiplied by the greater of (1) the actual Evaluation Period number of customers or (2) the number of customers used to determine final rates in the last general rate case for the months of July 2017 – September 2017. The approved settlement in the 2017 Rate Case approved a change to calculate authorized revenue using actual customer count only. This change is effective October 1, 2017 which is the start of the test year in the 2017 Rate Case.

⁶ Actual recovery through July 2018 plus an estimate for August 2018.

⁷ See attachment 3: Implementation Plan section 4 in the October 14, 2014 Decoupling Compliance Filing. Docket G-008/GR-13-316

final rates coming out of the case have been established, the decoupling model for this evaluation period was updated to reflect the final rates from the 2017 Rate Case in the models beginning October 1, 2017, which was the start of the test period. Likewise, the decoupling factors were calculated using 2017 Rate Case final sales volumes effective September 1, 2018, which will avoid an otherwise necessary restatement of the decoupling factors when final rates are implemented on November 1, 2018.⁸ In addition, the change related to customer count was implemented in the models beginning in October 2017 (see footnote 7).

Commitment to Conservation

CenterPoint Energy Minnesota Gas has achieved a 205 percent increase in energy savings in 2017 over the pre-decoupling period.⁹ The Company has increased CIP expenditures by 258 percent in 2017 over the pre-decoupling period, and intends to continue to increase its investment in conservation and pursue increased energy savings goals.

The Company continues to look for ways to improve its CIP offerings to achieve greater energy savings as well as better meet its customers' needs. The Company's 2017-2019 CIP Triennial Plan, which the Company began to implement in January 2017, included new program offerings and technologies, consolidates and streamlines some existing projects for better ease of use, and puts increased emphasis and resources toward program development. The 2017-2019 Triennial Plan includes approved budgets that range from 275 percent (in 2017) to nearly 300 percent (in 2019) higher than the CIP budgets in the pre-decoupling period¹⁰. Similarly, the 2017-2019 Triennial Plan sets annual energy savings goals between

⁸ The 2017 Rate Case compliance filing submitted on Sept 13, 2018 proposed implementing final rates on Nov 1, 2018.

⁹ As explained in the Decoupling Compliance Filing, the pre-decoupling period is defined as the three years of the baseline period before any decoupling pilot was implemented: 2007 – 2009.

¹⁰ For clarity of comparison, these figures do not include energy savings and program budgets associated with an unusually large custom efficiency project which was originally expected to complete in 2016 but experienced delays. The Deputy Commissioner approved an amendment to the Company's 2016 and 2017 budget and energy savings goals to reflect the transfer of the expected spending and energy savings in February of 2017 (Docket No. G-008/CIP-16-119).

91 percent (in 2017) to 107 percent (in 2019) higher than the energy savings goals approved in the pre-decoupling period.

Communication of Decoupling

In the June 9, 2014 *Order* in the 2013 rate case the Commission ordered the Company to work with interested stakeholders to develop and file a proposal for a “comprehensive, effective and meaningful education and outreach program that sets forth the goals of, and explains, revenue decoupling.”¹¹ On October 14, 2014 the Company filed its proposed *Full Revenue Decoupling Communication Plan*¹² (*Communication Plan*), which included a description of events and publications scheduled to take place through December 2016 during implementation of the Company’s approved revenue decoupling pilot program.¹³ The *Communication Plan* was approved in the March 23, 2015 Commission *Order* in the same docket.

Prior to 2017, the Company’s communication activities focused on introducing and educating customers to revenue decoupling. With completion of the steps laid out in the *Communication Plan*, in 2017 the Company transitioned to maintenance of existing communication of information about revenue decoupling for existing and new customers. CenterPoint Energy Minnesota Gas provides a summary of these ongoing communication activities:

- **New Customer Brochure:** All new CenterPoint Energy Minnesota Gas customers receive a welcome booklet, which communicates important and required information. The Company’s welcome booklet includes a description of the revenue decoupling portion of the customer’s bill.
- **CenterPoint Energy Minnesota Gas Website:** The Company maintains educational content on its website related to revenue decoupling. This content includes a landing page with a revenue decoupling introductory video, a

¹¹ Ordering Point 3 in the Commission’s Order filed on June 9, 2014 in Docket No. G-008/GR-13-316.

¹² The *Full Revenue Decoupling Communication Plan* was filed as Attachment A in the October 14, 2014 *Compliance Filing* in Docket No. G-008/GR-13-316.

¹³ Page 10 of *Attachment 2* in the October 14, 2014 *Compliance Filing* includes a schedule of planned communication materials and events.

revenue decoupling factsheet with contact information for customer questions, a frequently asked questions page.

- **Training for Customer Service Representatives: New Customer Service Representatives** receive in-depth, instructor-led training that includes information about the Company's full revenue decoupling pilot program. This training helps customer service representatives respond to customer questions and concerns about revenue decoupling.

Additional details about these activities and already completed communication activities can be found filed in the Revenue Decoupling Communication Plan,¹⁴ the 2015-2016 Revenue Decoupling Communication Plan Update filed on September 1, 2016, and the 2016-2017 Revenue Decoupling Communication Plan update filed on September 1, 2017.

Expiration of Pilot Program

The June 9, 2014 Order authorized the full decoupling pilot for a three-year period which ended on June 30, 2018. As discussed in more detail below, in the Company's 2017 Rate Case, the Company requested approval to continue the full decoupling program on a permanent basis. The Rate Case Order (July 20, 2018) approved the settlement agreement¹⁵ which allowed decoupling on a permanent basis, with modifications to the RD Rider models.

¹⁴ The *Full Revenue Decoupling Communication Plan* was filed as Attachment A in the October 14, 2014 *Compliance Filing* in Docket No. G-008/GR-13-316.

¹⁵ Docket No. G-008/GR-017-285 - March 7, 2018 – Offer of Settlement, H. Decoupling, page 26

B. TIMELINE FOR EVALUATION

Approval of Full Decoupling

- June 9, 2014 – Commission ordered full-decoupling for CenterPoint Energy Minnesota Gas (Docket G-008/GR-13-316 – page 57, ordering point 3).
- October 14, 2014 – (60 days from order) CenterPoint Energy Minnesota Gas filed proposed Evaluation, Communication, and Implementation Plan (Decoupling Compliance Filing).
- November 13, 2014 – (30 days) Comments filed by Department of Commerce (Department) and Office of Attorney General – Antitrust and Utilities Division (OAG).
- December 19, 2014 – Reply Comments filed by CenterPoint Energy Minnesota Gas which further explained and provided an example of the Company's proposed treatment of decoupling and a subsequent rate case.
- February 18, 2015 – Letter accepting CenterPoint Energy Minnesota Gas' proposed treatment of decoupling in a subsequent rate case was filed by the Department.
- March 23, 2015 – Commission Order accepting Decoupling Communication Plan. Plan requires annual evaluation report.
- March 31, 2015 – Commission Order accepting Decoupling Compliance Filing, including the proposal for updating the decoupling mechanism when potential future interim rates are in place.

Pilot Year 1 Activity

- July 1, 2015 – the first Evaluation Period (7/1/15-6/30/16) begins.
- June 30, 2016 – the first Evaluation Period (7/1/15 – 6/30/16) ends.
- September 1, 2016 – the first Evaluation Report with final 2015-2016 results is submitted to the Commission by CenterPoint Energy Minnesota Gas, the decoupling adjustment billing factor begins to appear on customer bills.
- November 1, 2016 - DOC comments, recommends approval of factors.
- November 14, 2016 – CenterPoint Energy Minnesota Gas files reply comments.
- December 28, 2016 – PUC Order accepted the 2016 Revenue Decoupling Evaluation Report, approved the decoupling adjustment factors that were

implemented on September 1, 2016 and required additional information related to “normal” weather in future Evaluation Reports.

- February 1, 2017 – Supplemental Filing to update decoupling adjustment factors for 2015 Rate Case sales volumes.
- March 3, 2017 - DOC comments on supplemental filing.
- March 13, 2017 – CenterPoint Energy Minnesota Gas reply on Supplemental comments of DOC.
- March 29, 2017: PUC Order allowing continued use of the adjusted decoupling factors that were implemented on February 1, 2017.

Pilot Year 2 Activity

- July 1, 2016 – the second Evaluation Period (7/1/16-6/30/17) begins.
- June 30, 2017 – the second Evaluation Period (7/1/16 – 6/30/17) ends.
- September 1, 2017 – the second Evaluation Report with final 2016-2017 results is submitted to the Commission by CenterPoint Energy Minnesota Gas, the decoupling adjustment factors (including the impact of reconciling the impact of the prior period) begins to appear on customer bills.
- October 30, 2016 - DOC comments, recommends approval of factors.
- February 15, 2018 - PUC Order accepted the 2017 Revenue Decoupling Evaluation Report, approving the decoupling adjustment factors that were implemented on September 1, 2017. Order required all future Annual Reports include live spreadsheets in Excel format, with formulas intact, that provide all the calculations for new annual decoupling amounts, the reconciliation of the prior year’s true-up amount, and the new decoupling factors.

Pilot Year 3 Activity

- July 1, 2017 – the third Evaluation Period (7/1/17-6/30/18) begins.
- September 1, 2017 – The Company requests extension of the pilot program until such time as the Commission makes a final decision on decoupling in the 2017 rate case (Docket No. G-008/GR-17-285).
- September 26, 2017 - DOC Comments on Extension of RD Rider – recommend approval.

- February 15, 2018 - MPUC also approved the extension of the pilot program until the Commission makes a final decoupling determination in the Company's 2017 Rate Case. Any changes to the decoupling formula approved in the rate case be applied during the extension period approved.
- March 7, 2018 – Offer of Settlement filed in the 17-285 Rate case, includes agreement to make RD Rider a regular feature of its tariffs. The Settlement Agreement modifies definition of “Allowed Revenues” to be the Authorized Revenues per customer multiplied by the actual evaluation period number of customers, calculated each month of the evaluation period, and summed.”¹⁶
- June 30, 2018 – the third Evaluation Period (7/1/17 – 6/30/18) ends
- July 20, 2018 – Order Accepting and adopting agreement setting rates, including the modifications to the RD Rider tariff.
- September 1, 2018 – the third Evaluation Report with final 2017-2018 results is submitted to the Commission by CenterPoint Energy Minnesota Gas, the decoupling adjustment factor (including the impact of reconciling the impact of the prior period) begins to appear on customer bills.

Year 4: July 2018 – June 2019

- July 1, 2018 – A new Evaluation Period (7/1/18-6/30/19) begins.

¹⁶ G-008/GR-17-285, March 7, 2018, Page 26

C. EVALUATION OF CENTERPOINT ENERGY MINNESOTA GAS' COMMITMENT TO INCREASED ENERGY SAVINGS

This section compares energy conservation efforts in the pre-decoupling baseline period (defined as 2007 to 2009) and the post-decoupling evaluation period, discusses CIP expenditures and energy savings in the last calendar year, summarizes marketing and outreach efforts, and describes modifications to the Company's CIP that have been proposed or implemented during the evaluation period for this report.

Section C summarizes the Company's marketing and outreach efforts and includes overall CIP spending figures and a discussion of marketing strategy and tactics. The Company includes comparisons of marketing and outreach efforts to prior years' efforts where appropriate. CenterPoint Energy Minnesota Gas will provide examples of individual marketing materials upon request.

The Company collects and reports conservation information on a calendar year basis for its annual status reports,¹⁷ and therefore data on CenterPoint Energy Minnesota Gas' conservation efforts included in the Full Decoupling Evaluation report follows a calendar year cut-off and not the July to June decoupling report period.

C-1) A comparison of the Company's annual CIP expenditures and resulting energy savings in the pre-decoupling baseline period to the expenditures and savings in the post-decoupling evaluation period, updated to include CIP expenditures and energy savings since the Company's most recent decoupling evaluation report, for the overall CIP portfolio, by program segment, and by customer rate class.

All of the Company's customer rate classes and program segments have seen significantly increased investment and in general have enjoyed increased energy savings since the pre-decoupling period. The graphs and tables below provide more

¹⁷ CenterPoint Energy's Corrected 2017 Conservation Improvement Program Status Report, Docket No. G-008/CIP-16-119, et al., (May 18, 2018).

detailed information regarding the expenditure and energy savings increases by program segment and rate class. The Company achieved a 205 percent increase in energy savings in 2017 over the pre-decoupling period. Similarly, the Company increased CIP expenditures by 258 percent in 2017 over the pre-decoupling period.

Several of the Company's commercial and industrial projects performed particularly well in 2017, but an extraordinarily large custom project was a major contributor to the highest to-date energy savings for the commercial and industrial segment.¹⁸ While this type of project cannot be expected every year, this project represents the culmination of years of sustained work by the customer and Company staff as well as a demonstration of the Company's long-standing commitment to helping its customers achieve cost-effective energy savings. Each year represented in CenterPoint Energy Minnesota Gas' approved 2017-2019 Triennial Plan has a higher energy saving goal and budget than the Company's 2016 goal and budget.

¹⁸ CenterPoint Energy's Approved 2017-2019 Conservation Improvement Triennial Plan, Docket No. G008/CIP-16-119, (revised version filed June 5, 2017).

Graph C-1a: CIP Energy Savings (Dth) by Customer Segment

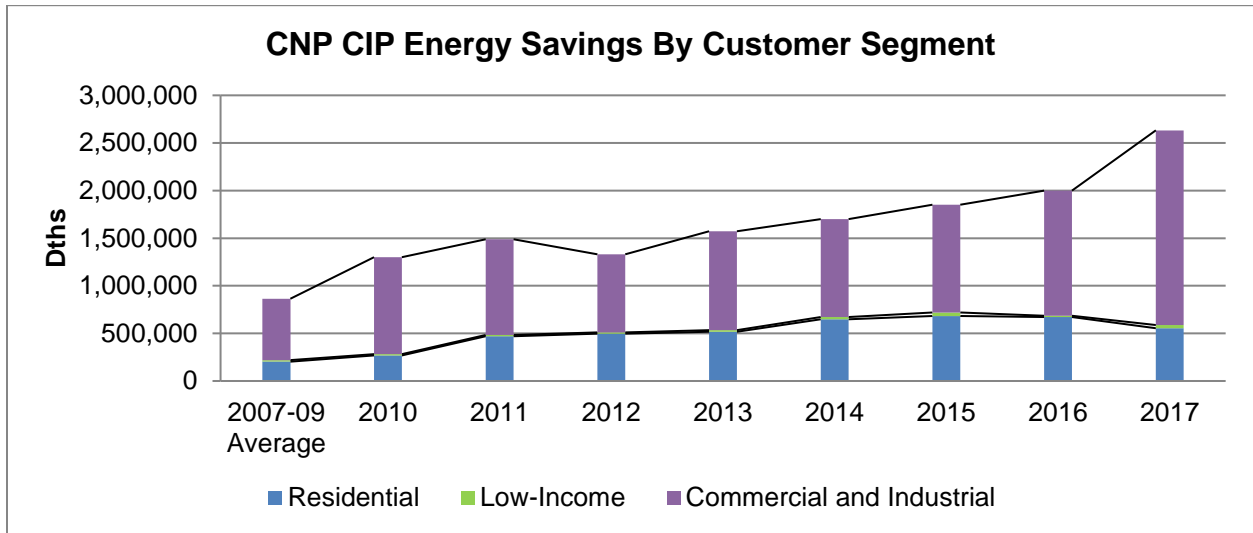


Table C-1a: CIP Energy Savings (Dth) by Customer Segment

Year/Period	Residential	Low-Income	Commercial and Industrial	Overall Program
2007-09 Average	203,100	16,199	644,424	863,723
2010	267,137	15,243	1,017,848	1,300,228
2011	469,107	14,693	1,004,431	1,488,231
2012	496,194	13,510	820,814	1,330,518
2013	515,946	17,075	1,037,790	1,570,810
2014	648,482	21,986	1,031,248	1,701,716
2015	682,540	36,937	1,132,452	1,851,930
2016	671,984	14,250	1,312,399	2,006,014
2017	554,411	32,397	2,045,737	2,632,545
2017 Percent Change From 2007-09	173%	100%	217%	205%

Graph C-1b: CIP Energy Savings (Dth) by Rate Class

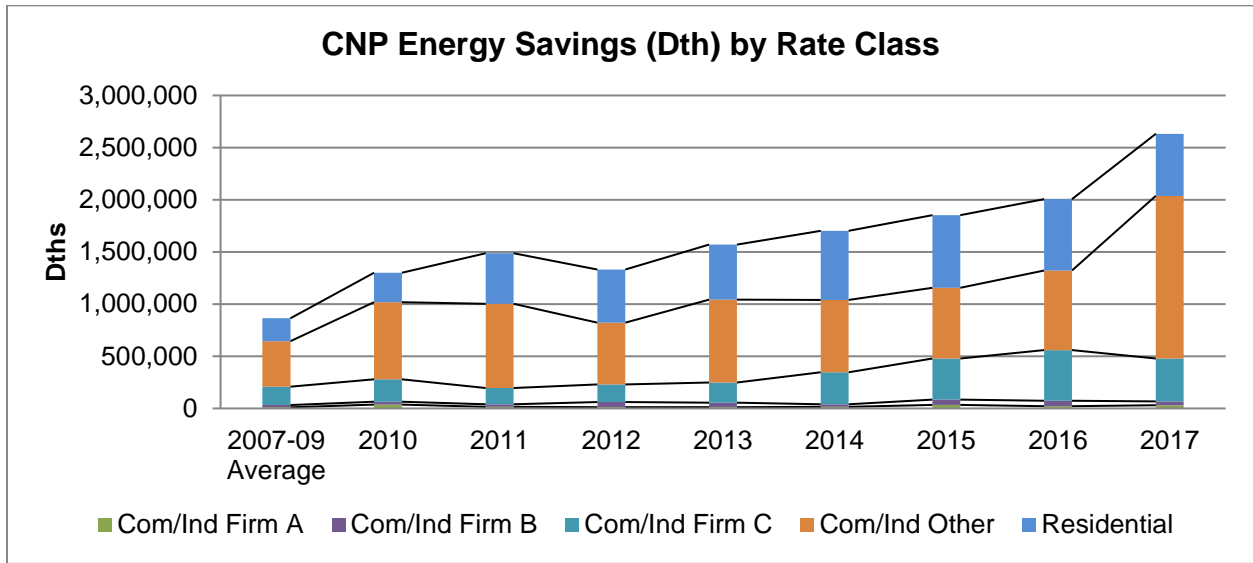


Table C-1b: CIP Energy Savings (Dth) by Rate Class

Year/Period	Residential	Com/Ind Firm A	Com/Ind Firm B	Com/Ind FirmC	Com/Ind Other
2007-09 Average	219,299	11,041	21,648	175,833	435,901
2010	282,380	36,941	26,080	216,897	737,930
2011	483,800	15,686	24,019	156,176	808,550
2012	509,704	12,269	48,434	168,813	591,297
2013	527,089	11,695	44,633	193,232	794,162
2014	661,303	15,334	24,954	305,799	694,327
2015	696,979	33,531	51,173	394,337	675,910
2016	685,065	21,722	50,871	486,744	761,612
2017	594,341	32,276	35,507	410,450	1,559,971
2017 Percent Change From 2007-09	171%	192%	64%	133%	258%

Graph C-1c: Expenditures by Customer Segment

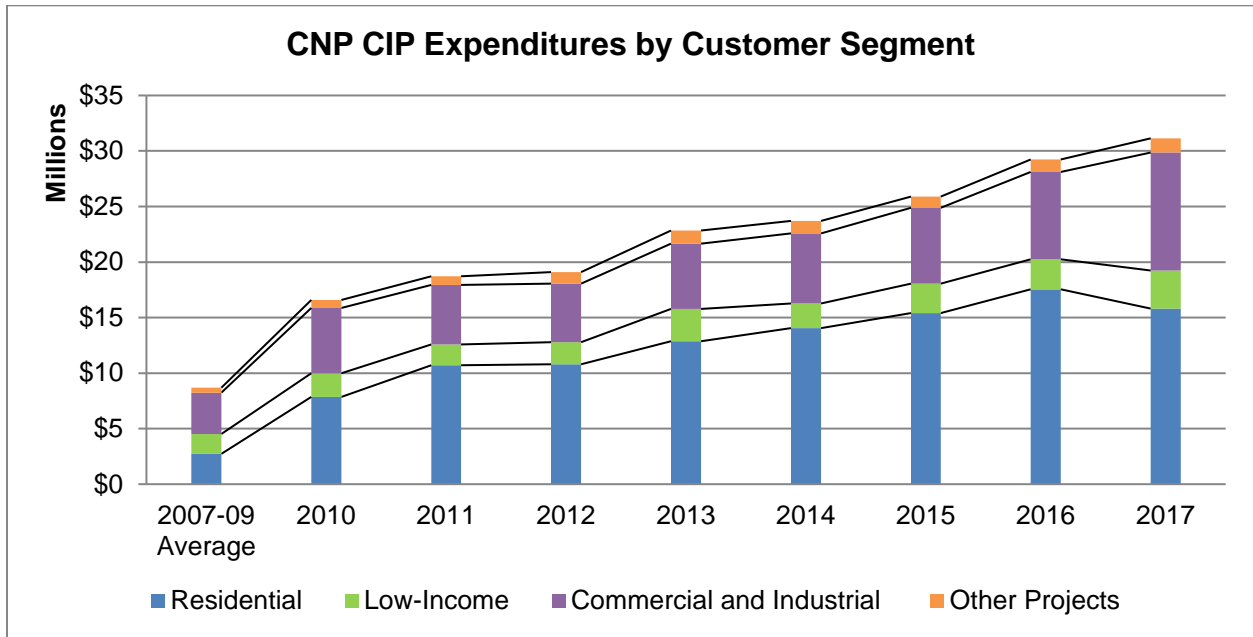


Table C-1c: Expenditures by Customer Segment

Year/Period	Residential	Low-Income	Commercial & Industrial	Other Projects	Overall Program
2007-09 Average	\$2,731,997	\$1,787,613	\$3,722,836	\$444,749	\$8,687,195
2010	\$7,861,852	\$2,121,325	\$5,886,263	\$705,297	\$16,574,737
2011	\$10,715,062	\$1,867,663	\$5,360,144	\$771,054	\$18,713,923
2012	\$10,801,865	\$1,977,250	\$5,278,953	\$1,033,732	\$19,091,800
2013	\$12,868,507	\$2,915,754	\$5,875,196	\$1,170,253	\$22,829,710
2014	\$14,054,870	\$2,207,285	\$6,314,013	\$1,125,353	\$23,701,520
2015	\$15,397,531	\$2,665,523	\$6,833,760	\$996,804	\$25,893,618
2016	\$17,546,421	\$2,701,799	\$7,873,273	\$1,107,040	\$29,228,533
2017	\$15,811,617	\$3,429,092	\$10,619,783	\$1,279,602	\$31,140,094
2017 Percent Change From 2007-09	479%	92%	185%	188%	258%

C-2) For each year under consideration, energy savings from Company-sponsored CIP programs will be compared to the applicable three-year weather-normalized sales average at the portfolio level only, since the statutory savings goal is set at the portfolio level.

Minnesota Statute § 216B.241, subd. 1c requires utilities to propose energy savings goals of no less than one percent of sales and to calculate energy savings as a percent of retail sales based on the most recent three-year, weather-normalized average. Legislation passed in 2009 provided for a “ramp-up” period during which the Department of Commerce had the authority to approve a natural gas CIP Triennial Plan for the 2010-2012 triennium that did not reach the one percent level, provided it followed the ramp-up path.¹⁹

The following graphs and tables show the Company’s annual energy savings achievements as a percent of weather-normalized sales from 2007 to 2017. The first graph and table show energy savings achievements as a percent of ten-year weather-normalized sales, and the second graph and table show energy savings achievements as a percent of twenty-year weather-normalized sales. CenterPoint Energy Minnesota Gas uses a ten-year period to weather-normalize the sales figures it reports in its Jurisdictional Annual Reports as well as in its CIP Triennial Plans and Status Reports. The savings as a percent of twenty-year weather-normalized sales are provided in compliance with the December 28, 2016 Order in the 2013 Rate Case. The large custom project contributed to the Company surpassing the one percent savings goal and achieving energy savings of more than 1.8 percent of weather-normalized sales in 2017.

¹⁹ MN Session Laws 2009 Chapter 110, Section 32.

Graph C-2a: CIP Energy Savings as a Percent of Ten-Year Weather-Normalized Sales (based on the applicable three-year average)

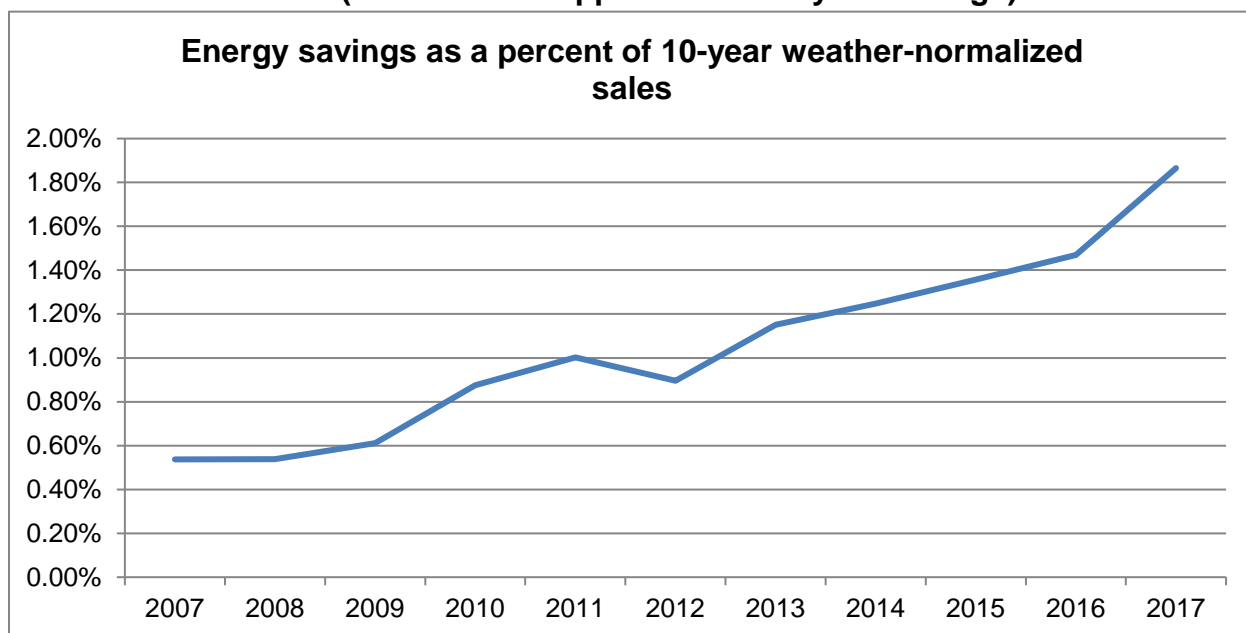


Table C-2a: CIP Energy Savings as a Percent of Ten-Year Weather-Normalized Sales (based on the applicable three-year average²⁰)

CIP Plan Period	Year	The applicable 3-year average 10-year weather normalized sales (Dth)	Annual energy savings (Dth)	Energy savings as a percent of sales
2007-2008 Biennial Period	2007	153,605,433	825,030	0.54%
	2008	153,605,433	827,340	0.54%
Extension of 2007-2008 Biennial	2009	153,605,433	938,798	0.61%
2010-2012 Triennial Period	2010	148,502,961	1,300,228	0.88%
	2011	148,502,961	1,488,231	1.00%
	2012	148,502,961	1,330,518	0.90%
2013-2016 Triennial Period	2013	136,490,212	1,570,810	1.15%
	2014	136,490,212	1,701,716	1.25%
	2015	136,490,212	1,851,930	1.36%
Extension of 2013-2015 Triennial	2016	136,490,212	2,006,014	1.47%
2017-2019 Triennial Period	2017	141,120,375	2,632,545	1.87%

²⁰ Minnesota Statute §216B.241, subd. 1c requires utilities to propose energy savings goals of no less than one percent of sales. Statute requires that energy savings as a percent of retail sales be calculated based on the most recent three-year, weather-normalized average. This requirement did not exist prior to 2010. The Company calculated the three-year average, weather-normalized sales, using the 2003-2005 weather-normalized average sales volumes as filed in the Company's Gas Jurisdictional Annual Reports, to calculate the Company's energy savings as a percent of sales for 2007 to 2009.

Graph C-2b: CIP Energy Savings as a Percent of Twenty-Year Weather-Normalized Sales (based on the applicable three-year average)

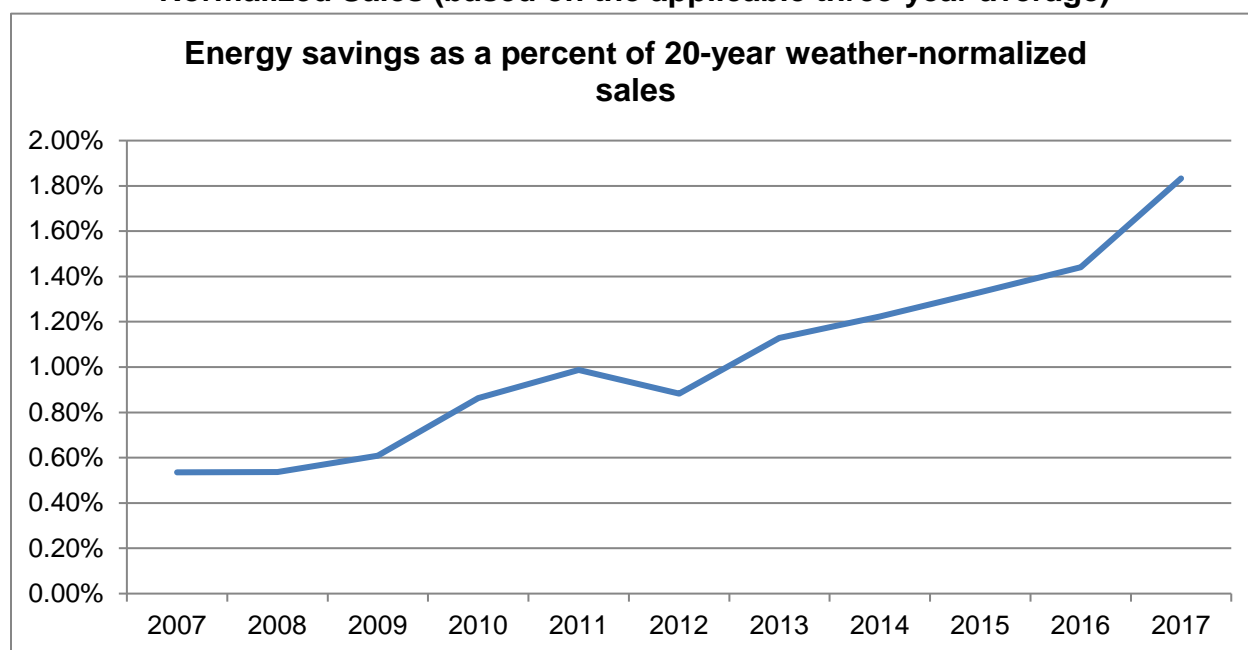


Table C-2b: CIP Energy Savings as a Percent of Twenty-Year Weather-Normalized Sales (based on the applicable three-year average²¹)

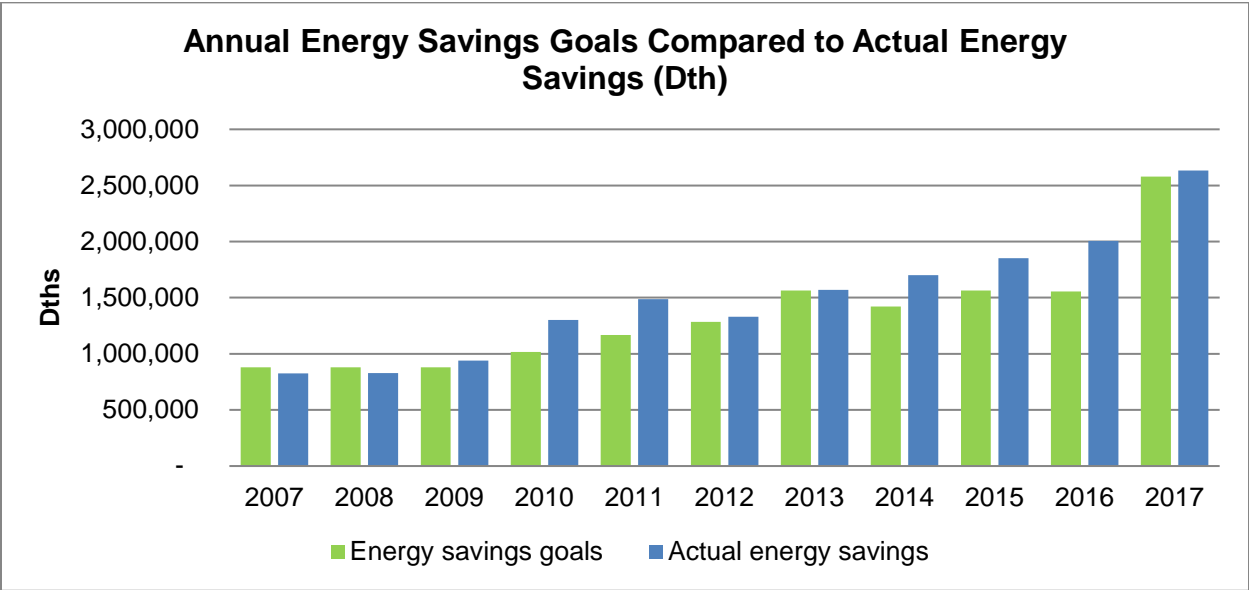
CIP Plan Period	Year	The applicable 3-year average 20-year weather normalized sales (Dth)	Annual energy savings (Dth)	Energy savings as a percent of sales
2007-2008 Biennial Period	2007	154,110,813	825,030	0.54%
	2008	154,110,813	827,340	0.54%
Extension of 2007-2008 Biennial	2009	154,110,813	938,798	0.61%
2010-2012 Triennial Period	2010	150,775,872	1,300,228	0.86%
	2011	150,775,872	1,488,231	0.99%
	2012	150,775,872	1,330,518	0.88%
2013-2016 Triennial Period	2013	139,161,784	1,570,810	1.13%
	2014	139,161,784	1,701,716	1.22%
	2015	139,161,784	1,851,930	1.33%
Extension of 2013-2015 Triennial	2016	139,161,784	2,006,014	1.44%
2017-2019 Triennial Period	2017	143,628,146	2,632,545	1.83%

²¹ For consistency with its presentation of energy savings as a percent of ten-year weather normalized sales (see Chart C-2a above), the Company presents energy savings as a percent of twenty-year weather-normalized sales calculated using the weather-normalized sales average of the most recent three years preceding each triennial period.

C-3) *How did the Company’s CIP energy savings achievements and expenditures compare to its Commissioner-approved energy savings goals and budgets for the years under consideration?*

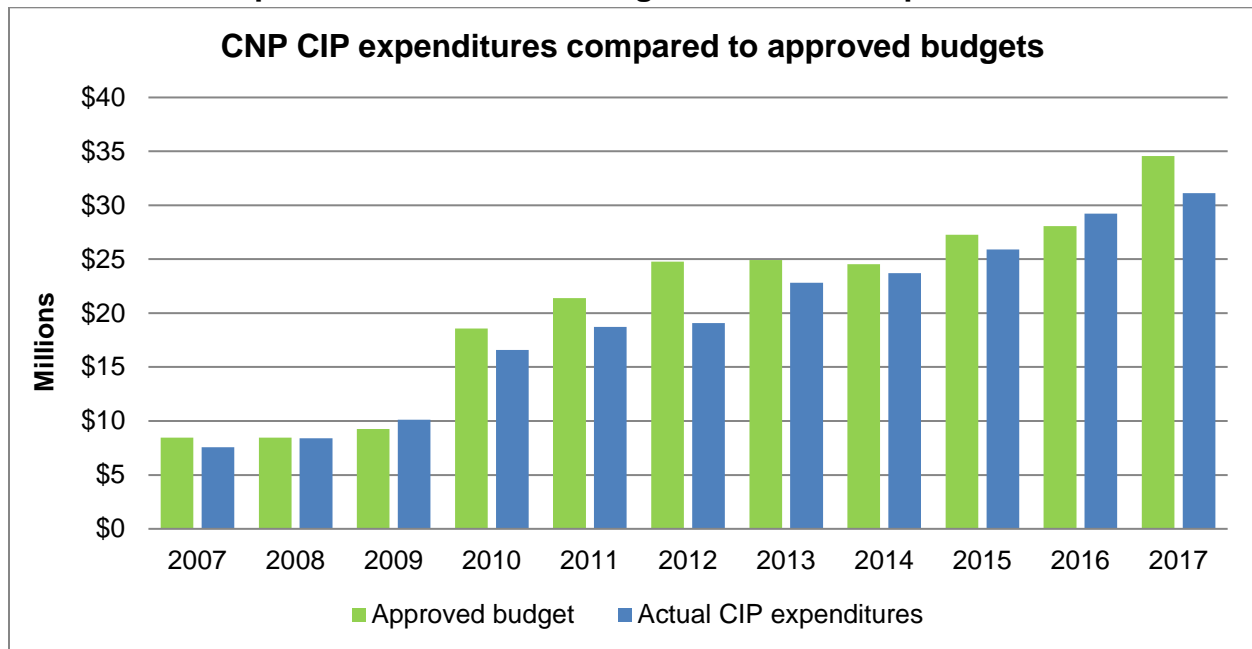
CIP budgets and spending have steadily increased since 2007 along with energy savings goals. Actual CIP energy savings achievements have surpassed energy savings goals from 2009 to 2017; actual energy savings achievements were slightly below the approved goal for 2007 and 2008. The graphs below illustrate the Company’s annual energy savings achievements and annual CIP spending compared to the approved goal and budget for each year (2007-2017). The Company’s annual CIP expenditures did not exceed the approved budget between 2009 and 2015. In 2016, CIP expenditures exceeded the approved budget by 4.1 percent.²² In 2017, energy savings goals were exceeded and CIP expenditures did not exceed the approved budget. The Company’s energy savings goals and approved budget accounted for the large custom project.

Graph C-3a: Annual CIP Goals and Actual Energy Savings (Dth)



²² CIP budget flexibility criteria allowed for program spending in the 2013-2017 period to exceed approved budgets provided that the direct-impact programs segments (Residential, Low-Income, and Commercial/Industrial) remained cost-effective; exceeding segment-level budgets by more than 25% required authorization from the Department of Commerce. See the Deputy Commissioner’s *Decisions* of October 19, 2012 and October 12, 2015 in Docket No. G008/CIP-12-564.

Graph C-3b: Annual CIP Budget and Actual Expenditures



C-4) *What were the associated “lost margins” from Company-sponsored CIP programs for each year under consideration, in total and by rate class? As in the Decoupling Evaluation Reports for the previous CE Rider partial decoupling pilot, the “lost margins” would be calculated by multiplying first year energy savings achieved by the applicable margin.*

Table C-4 shows the lost margins associated with the Company’s CIP energy savings from 2007 to 2017. The figures shown are single-year figures and do not reflect the reduced sales due to energy savings over the lifetime of the installed equipment.

Table C-4: Lost Margins due to CIP Energy Savings by Rate Class, 2007-2017

Year	Residential	Com/Ind-A	Com/Ind-B	Com/Ind-C	SVDF-A	SVDF-B	LV ²³	Total
2007	\$218,255	\$7,708	\$27,343	\$203,895	\$84,534	\$86,718	\$66,353	\$694,806
2008	\$229,800	\$16,862	\$25,499	\$197,354	\$103,763	\$53,593	\$73,435	\$700,306
2009	\$510,546	\$19,701	\$33,063	\$262,527	\$132,001	\$23,493	\$69,866	\$1,051,198
2010	\$451,611	\$51,850	\$35,848	\$275,928	\$221,196	\$108,444	\$123,083	\$1,267,960
2011	\$773,741	\$22,017	\$33,093	\$198,625	\$225,978	\$126,525	\$102,870	\$1,482,850
2012	\$815,170	\$17,221	\$66,732	\$214,629	\$196,653	\$80,745	\$44,832	\$1,435,982
2013	\$842,973	\$16,415	\$61,495	\$245,752	\$205,737	\$110,338	\$162,133	\$1,644,843
2014	\$1,097,234	\$18,804	\$28,604	\$370,108	\$213,290	\$122,090	\$105,358	\$1,955,489
2015	\$1,157,612	\$41,176	\$58,747	\$477,937	\$207,049	\$194,949	\$76,121	\$2,213,592
2016	\$1,132,412	\$26,503	\$57,998	\$586,088	\$196,303	\$158,289	\$105,714	\$2,263,307
2017	\$1,112,607	\$60,453	\$52,593	\$554,148	\$190,803	\$183,223	\$632,211	\$2,786,038

Lost margins are based on annual energy savings from the Company's CIP multiplied by CenterPoint Energy Minnesota Gas' delivery charge (not including CIP base charges) per rate class.

C-5) Since the most recent Full Revenue Decoupling Evaluation Report, has the Company proposed or implemented any changes or expansions to its energy conservation program offerings? Identify and describe such changes or expansions.

Since the end of the last Decoupling Evaluation period on June 30, 2017, the Company has continued implementation of its 2017-2019 CIP Triennial Plan. Each year represented in the 2017-2019 Triennial Plan has a higher energy savings goal and budget than 2016 or any prior year. During the decoupling evaluation period the company made several modifications to the 2017-2019 Triennial Plan's program offerings:

²³ Lost margin figures for large-volume dual-fuel customers are combined with figures for large-volume firm customers.

- On August 7, 2017 CenterPoint Energy Minnesota Gas filed a program modification request to modify its Home Energy Squad Program for its 2017-2019 Minnesota Natural Gas CIP. The baseline efficiency assumptions for the installation of thermostats were modified to allow for the replacement of Tier I and Tier II thermostats with higher Tier thermostats and accurately claim resulting energy savings. The modification also added a 0.5 gallons per minute (GPM) aerator measure to the options available to a customer for direct installation in their home by the Home Energy Squad. The Department approved the Company's modification request for Home Energy Squad on September 29, 2017. At the end of 2017 the Company also began offering the 0.5 GPM aerator to commercial and industrial customers as a part of the Natural Gas Energy Analysis project.
- Beginning on January 1, 2018 CenterPoint Energy Minnesota Gas began offering incentives to single-family home²⁴ or commercial building (including multi-family housing) participants that achieved Passive House Certification.²⁵ The Company hopes that these incentives will encourage the construction of more certified Passive House buildings in its territory and thereby drive increased savings chiefly through the High-Efficiency Homes and Energy Design Assistance projects and secondarily through other projects (e.g. New Home Construction Rebates, Multi-Family Building Efficiency, Commercial & Industrial Custom Rebates).
- On January 26, 2017 CenterPoint Energy Minnesota Gas filed a program modification request to modify the Non-Profit Affordable Housing (NPAH) project to include a performance-based incentive for builders. The prescriptive rebate-based incentive remains an option available to builders, but the new performance-based incentive encourages builders to achieve higher levels of energy savings throughout a building. These performance based incentives included incentives for receiving Passive House certification. The Company's

²⁴ Including small residential buildings with four or fewer dwelling units.

²⁵ The Passive House Institute US promulgates specific requirements for buildings, designed to achieve these overarching goals and awards certification to buildings that satisfy the Institute's exacting standards.

modification also requested to modify the NPAH project to allow local governments and public housing authorities to potentially engage in the construction of single-family and small rental properties. The Department approved the Company's modification request on March 29, 2018.

C-6) Describe the Company's marketing and outreach efforts related to CIP. Since the most recent Full Revenue Decoupling Evaluation Report, has the Company changed its marketing strategy or tactics for CIP in general or for specific CIP programs? How do recent marketing and outreach efforts compare to prior years?

Since the last Full Revenue Decoupling Evaluation Report, the Company has continued to make significant efforts to promote its CIP programs to both end use customers and trade allies. Methods of communication included program collateral (displays, booklets, signage, trinkets, and other marketing support materials), bill inserts/onserts (customer communications included on bills), emails, digital advertisements (banner ads, social media, online streaming audio and videos), web paid search advertisements, direct mailings, radio, cable, and broadcast television advertisements, electronic newsletters, print advertisements, door hanger sponsorships, industry tradeshow, and customer and trade ally educational seminars.

CenterPoint Energy Minnesota Gas' CIP promotional materials encouraged customers to participate in the Company's CIP programs by purchasing qualifying high-efficiency natural gas equipment, having an energy audit or analysis completed to identify energy savings opportunities, participating in a design or engineering program to improve the commercial/industrial buildings efficiency, or installing low-cost measures to save energy in a home or commercial/industrial facility. Additionally, the materials highlighted the cost savings associated with implementing these energy saving strategies.

The level of expenditure for advertisements and promotions in the Company's CIP program for the pre-decoupling period (2007-2009) as well as the post-decoupling period (2010-2017) is provided in table C-6 below:

Table C-6: Annual Expenditures on Ads and Promos

Average 2007-09 Ads and Promo Spend	\$655,516
2007 Ads & Promo Spend	\$655,243
2008 Ads & Promo Spend	\$599,231
2009 Ads & Promo Spend	\$712,074
2010 Ads & Promo Spend	\$1,307,357
2011 Ads & Promo Spend	\$1,243,094
2012 Ads & Promo Spend	\$1,532,858
2013 Ads & Promo Spend	\$1,604,865
2014 Ads & Promo Spend	\$1,468,718
2015 Ads & Promo Spend	\$1,485,108
2016 Ads & Promo Spend	\$1,546,967
2017 Ads & Promo Spend	\$1,571,155

C-7) *What were the annual revenues collected from ratepayers to fund CIP programs, by rate class, for each year under consideration?*

Annual revenues collected from ratepayers to fund the Company's CIP are provided by rate class for 2007 to 2017 in Table C-7 below.

Table C-7: Annual CIP Recovery by Rate Class²⁶

Year	Residential	Com A	Com/Ind B	Com/Ind C	SVDF-A	SVDF-B	LV	Total
2007	\$4,176,104	\$139,105	\$309,136	\$1,525,090	\$609,673	\$527,701	\$2,455,941	\$9,742,750
2008	\$3,292,598	\$108,377	\$250,686	\$1,251,605	\$486,082	\$394,406	\$1,507,803	\$7,291,557
2009	\$6,058,454	\$180,369	\$461,781	\$2,153,417	\$900,356	\$657,414	\$2,871,645	\$13,283,437
2010	\$7,042,762	\$217,793	\$538,222	\$2,533,429	\$1,016,496	\$814,439	\$3,768,047	\$15,931,189
2011	\$10,667,530	\$349,563	\$841,878	\$3,868,149	\$1,555,585	\$1,144,903	\$5,703,856	\$24,131,464
2012	\$9,064,698	\$272,002	\$692,769	\$3,413,993	\$1,383,011	\$998,097	\$3,855,000	\$19,679,571
2013	\$15,952,573	\$574,362	\$1,298,195	\$5,937,064	\$2,267,039	\$1,527,794	\$4,941,849	\$32,498,877
2014	\$19,680,920	\$664,371	\$1,628,109	\$7,791,288	\$2,697,884	\$1,770,006	\$6,781,772	\$41,014,351
2015	\$16,913,096	\$508,851	\$1,329,998	\$7,138,054	\$2,301,252	\$1,625,623	\$7,526,345	\$37,343,219
2016	\$18,465,701	\$582,553	\$1,448,460	\$7,873,614	\$1,797,616	\$1,045,443	\$6,877,866	\$38,091,252
2017	\$23,503,570	\$806,256	\$1,927,454	\$10,775,877	\$2,158,007	\$1,400,360	\$8,893,255	\$49,464,779

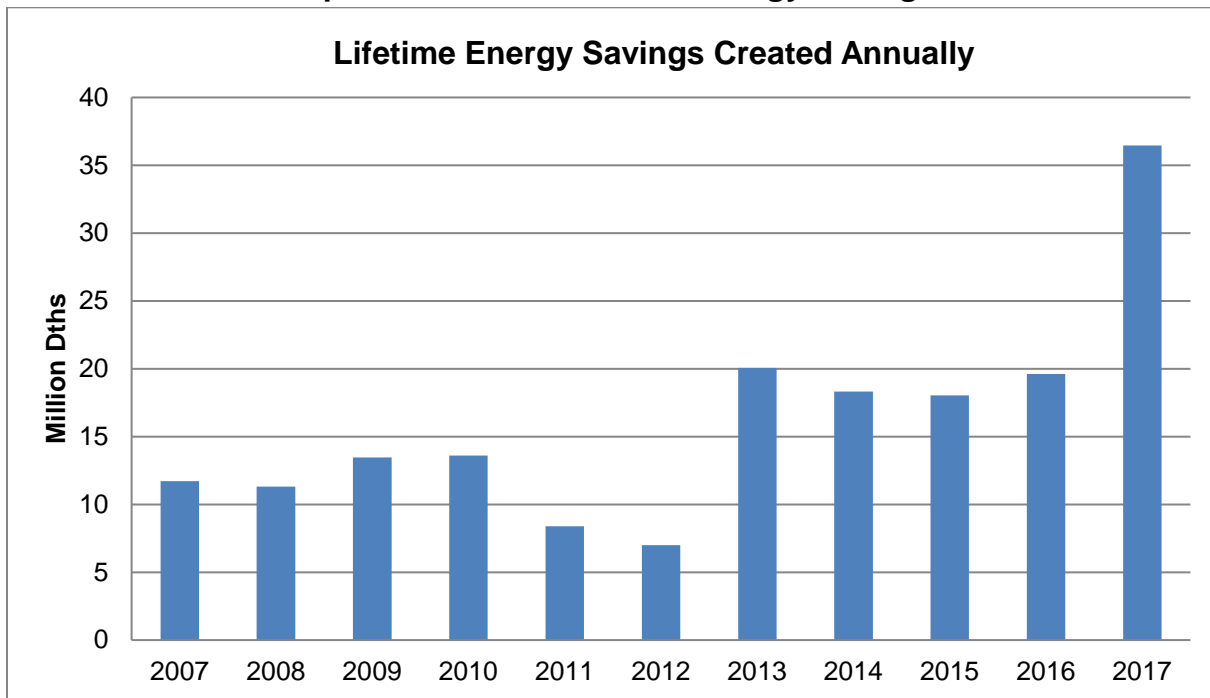
C-8) *What were the lifetime energy savings that can be attributed to the Company's CIP offerings for each year under consideration? How do lifetime energy savings in the decoupled period compare to the pre-decoupling period?*

The Company's CIP has produced a significant level of lifetime energy savings.²⁷ Since 2007, the Company's CIP has achieved about 178 BCF of lifetime energy savings. The 2017 CIP program year had 200 percent higher lifetime energy savings than the average lifetime energy savings for the pre-decoupling period. The large custom project's high energy savings and expected project lifetime contributed to a much higher lifetime energy savings for CIP in 2017. Graph C-8 below shows the annual level of lifetime energy savings for the Company's CIP beginning in 2007.

²⁶ These figures represent total revenue collected to fund the Company's CIP, including the interim CCRC rate, as documented in CenterPoint Energy's Conservation Improvement Program Tracker Report, Docket No. G-008/CIP-16-119, et al., (May 18, 2018). Total revenue was prorated by sales volumes.

²⁷ Lifetime energy savings is determined by multiplying energy savings associated with a conservation measure by the expected lifetime of the measure.

Graph C-8: Annual Lifetime Energy Savings²⁸



C-9) *What changes in participation, cost-effectiveness, or other metrics that gauge the performance of the CIP programs have occurred during the years under consideration?*

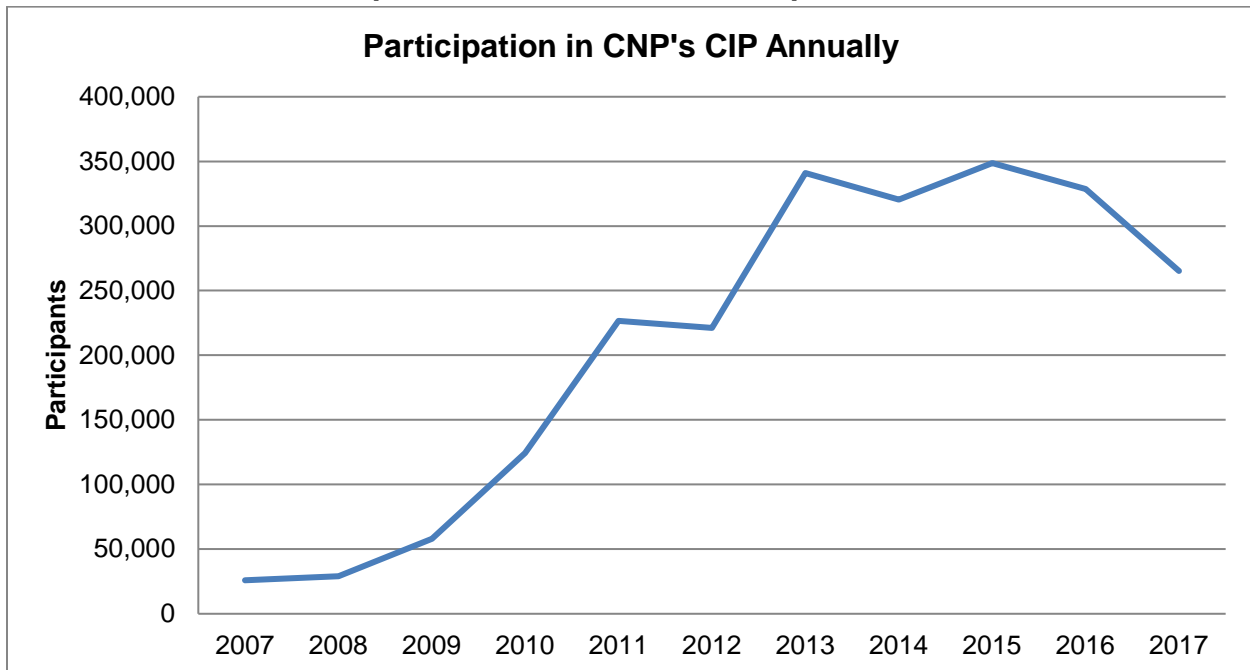
Participation:

As shown in Graph C-9a below, participation in the Company's CIP has increased considerably since 2007. Participation in 2017 was 604 percent higher than it was in the pre-decoupling period. Over the course of the last ten years, the Company has introduced a number of new CIP projects and offerings in order to meet the needs of its customers and thus increase the number of its customers who find value and opportunity in the Company's CIP. The 2017-2019 Triennial Plan further increases opportunities for participation through initiatives such as on-bill financing, the streamlining of residential programs, and the introduction of prescriptive rebates for

²⁸ The treatment of behavioral savings in the *2010-2012 Triennial Plan* in Docket No. G008/CIP-09-644 resulted in a declining trend in the average lifetime of energy savings in the Company's CIP for program years 2010-2012.

new measures such as ENERGY STAR® laundry equipment, condensing integrated heating and cooling units, and other measures previously offered only as custom rebates. The Company has also worked to increase participation in its CIP through a variety of marketing and outreach activities, which are discussed in more detail in question six of this report.

Graph C-9a: Annual CIP Participation²⁹



Cost-effectiveness:

Graph C-9b below shows the cost-effectiveness test scores for each CIP program year from 2007 to 2017 from the utility and societal perspective. The cost-effectiveness score represents the ratio of the benefits to the costs for a program; a score higher than one means that the benefits are greater than the costs and the program is therefore considered cost-effective. The utility test score reflects the costs and benefits that accrue to the utility, while the societal test score considers costs and benefits from a societal perspective. Key differences between these tests are

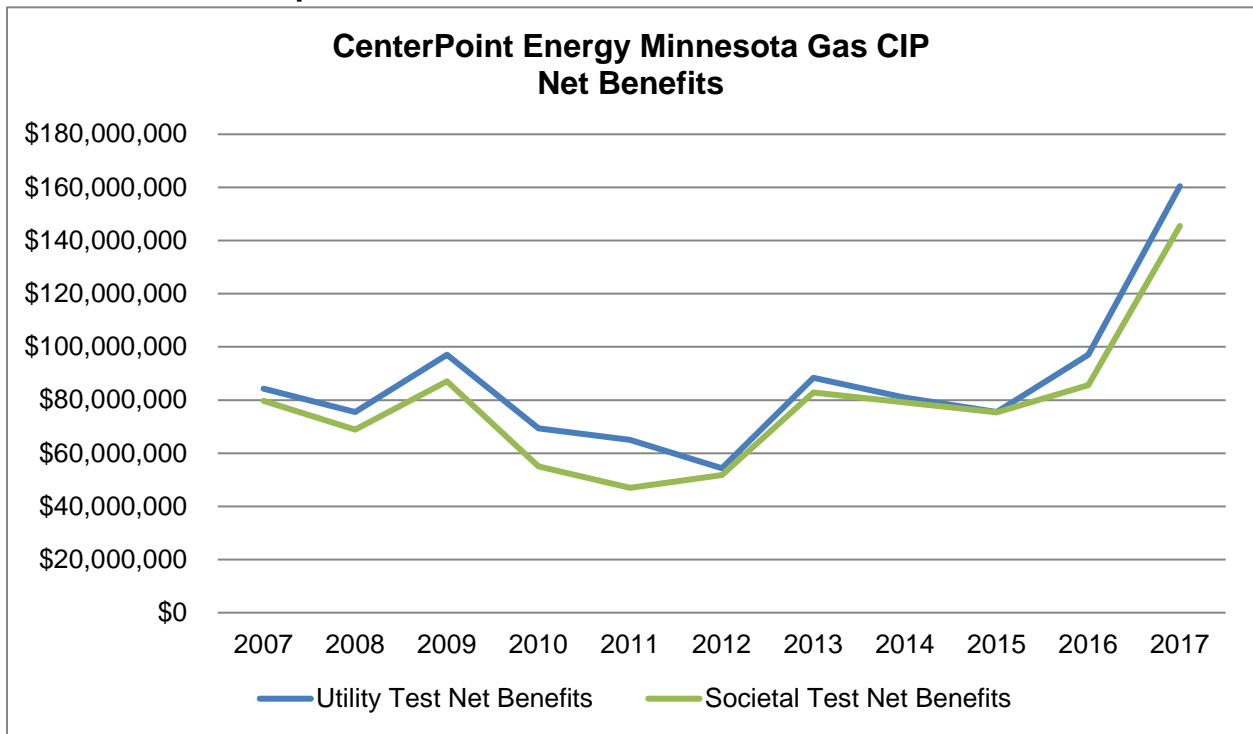
²⁹ CIP participation in 2017 cannot be directly compared to previous years because of the streamlining of programs in the 2017-2019 Triennial Plan. For example, the Triennial Plan combined several programs and modified the metric for tracking participation in several programs.

that the societal test includes the cost to participants of an energy conservation measure as well as the cost of utility programs, while the utility test considers only the cost of the programs themselves. The societal test also includes the environmental benefit of avoided energy use.

Both the utility and the societal tests scores are influenced by a variety of factors, some of which are a result of program achievements like energy savings or program spending. However, some external factors also affect cost-effectiveness scores. Both the utility test and the societal test are highly sensitive to changes in the commodity cost of gas. Much of the variability seen in Graph C-9b is due to fluctuations in the commodity cost of gas over the time period in consideration. A comparison of Graph C-9b, showing the change in the cost-effectiveness scores, and Graph C-9c, which shows annual first-year energy savings achievements for the Company's CIP, illustrates the degree to which the commodity cost and factors other than first-year energy savings achievements can influence cost-effectiveness test results. The increased cost of achieving additional savings (discussed further below) also creates downward pressure on cost-effectiveness ratios.

Despite the challenges of maintaining cost-effective natural gas conservation programs in a time of declining natural gas commodity costs, the Company's CIP has been cost-effective from both the societal and utility test perspective every year since 2007. This means that in every year under consideration in this report, the Company's CIP produced more benefits than it did costs for the utility as well as society. The large energy savings and expected project lifetime of the large custom project in 2017 contributed to an increase in both cost-effectiveness tests.

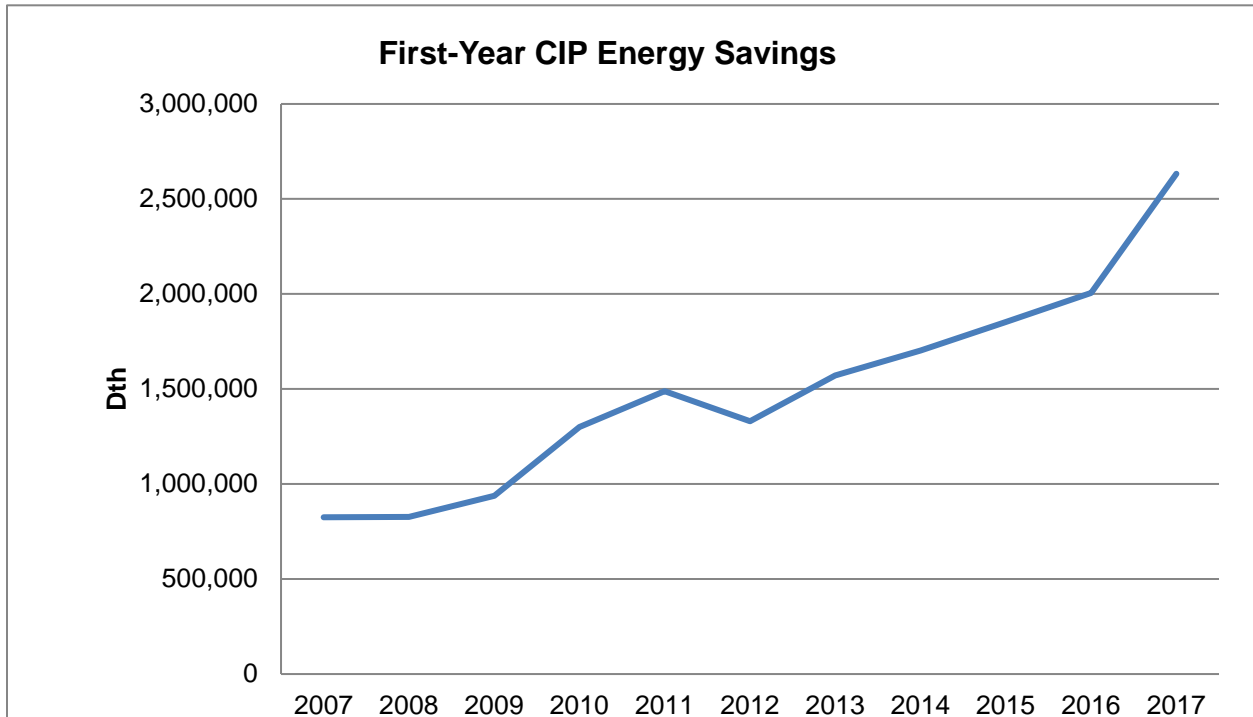
Graph C-9b: CIP Cost-Effectiveness Test Results



Energy Savings:

First-year energy savings is a key metric in determining the success and effectiveness of any energy conservation program. As shown in Graph C-9c below, annual first-year energy savings achievements have increased dramatically over the period under consideration; first-year energy savings in 2017 are 205 percent higher than the average first-year energy savings for the pre-decoupling period.

Graph C-9c: CIP First-Year Energy Savings Achievements



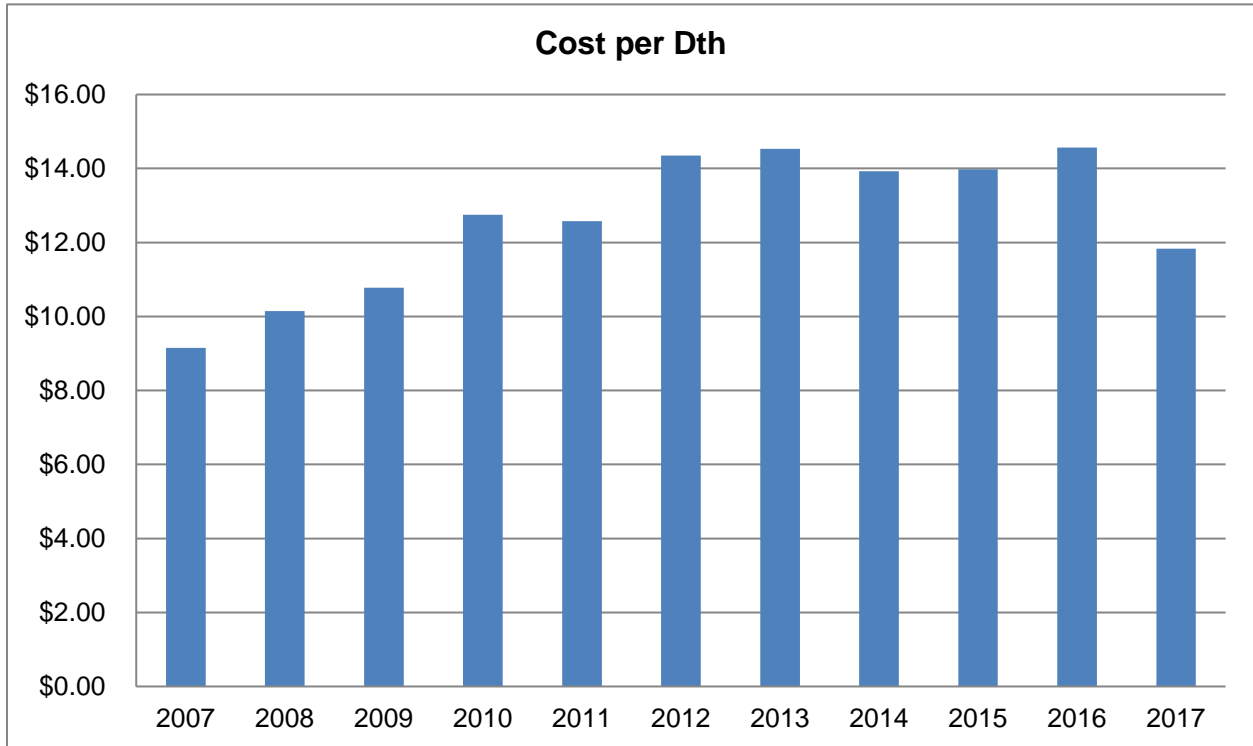
Cost per First-Year Energy Savings:

The cost to achieve incremental energy savings tends to increase as a utility strives to achieve greater levels of savings. This is due to the fact that a utility must move beyond the easiest conservation opportunities (that make up much of a new, immature conservation program portfolio) and pursue the less obvious, more expensive, and less easily attainable energy savings opportunities. In keeping with this phenomenon, the Company's CIP has generally experienced increases in the cost per unit of energy saved as energy savings achievements have increased; the cost per first-year energy savings achievement for the period under consideration is shown below in Graph C-9d.

Compared to 2007-2009, though the cost per first-year energy savings has increased, the increase has been modest compared to the increase in energy savings over the same period of time. The cost per dekatherm of energy savings in 2017 is only 18 percent higher than the average cost per dekatherm of energy savings in the pre-decoupling period, while energy savings is 205 percent higher for the same time period. While the cost per dekatherm in 2017 is lower than in 2010-2016, the decrease

is mainly due to the large custom project, which is unlikely to be repeated in future years.

Graph C-9d: CIP Cost per First-Year Energy Savings (Dth)



C-10) Describe low-income specific programs and/or impacts. What were the low-income CIP savings for the post-decoupling implementation time period compared to the pre-decoupling period?

CenterPoint Energy Minnesota Gas' 2017 CIP included five dedicated low-income projects. These projects are designed to serve low-income customers who both own and rent, regardless of the utility bill arrangement (whether the tenant or landlord pays the utility bill). The Company's low-income offerings cover energy efficiency upgrades that range from retrofits to simple furnace tune-ups; provide services for both new construction and existing buildings; and address the needs of homeowners, tenants, and low-income housing providers. Below are the five low-income projects that are included in the Company's CIP.

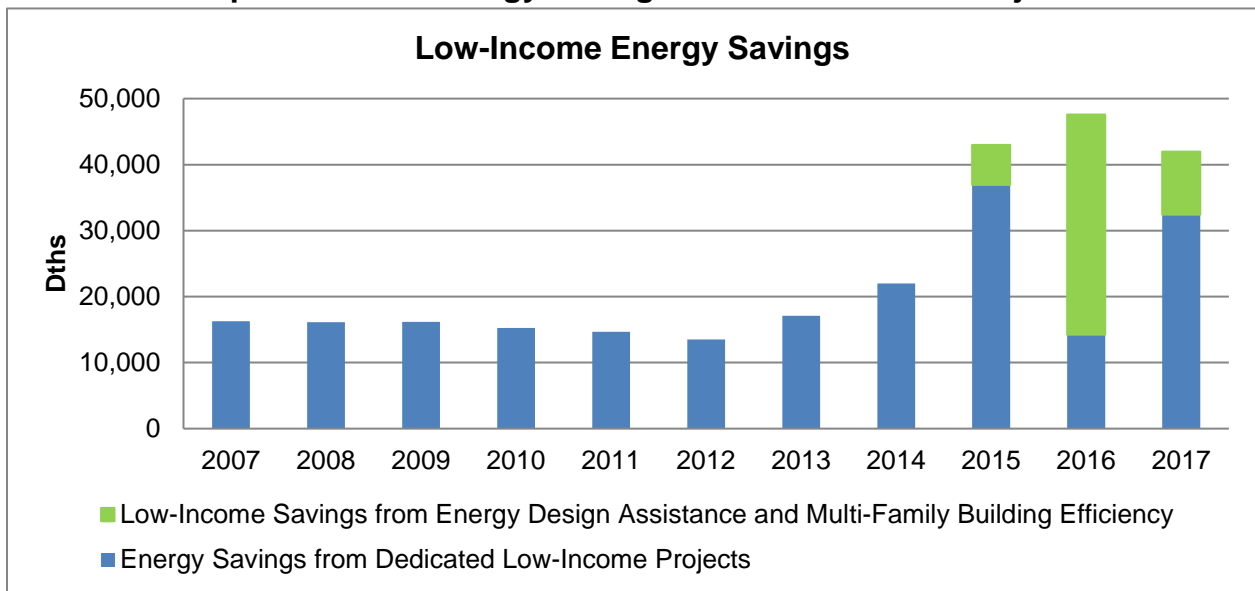
- Low-Income Weatherization Project – provides major weatherization services and comprehensive retrofits to low-income residential customers.
- Low-Income Rental Efficiency Project – engages directly with owners of residentially-metered 1-4 unit rental properties that house low-income tenants to encourage and provide funding for energy efficiency upgrades.
- Low-Income Heating System Tune-Ups – provides free furnace and boiler tune-ups and safety checks for low-income residential customers.
- Non-Profit Affordable Housing Project – provides incentives to affordable housing non-profit organizations for energy efficiency measures in new construction and existing low-income housing projects.
- Low-Income Multi-Family Building Rebate Project – offers a bonus rebate for energy efficiency measures in low-income multi-family housing buildings.

In addition to the Company's five dedicated low-income projects, the Company offers additional incentives for low-income participation in several of its residential and commercial/industrial segment projects. The projects offering special incentives available to low-income customers include Home Energy Squad, which includes free home visit options for low-income participants; Energy Design Assistance, which provides larger rebates to qualifying low-income multi-family buildings; and Multi-Family Building Efficiency, through which low-income qualified buildings may receive double the rebates available to other participants.

The Company's 2017 energy savings from its dedicated low-income projects were 100 percent higher than its average energy savings from low-income projects in the pre-decoupling period, with spending and participation being, respectively, 240 and 92 percent higher than the pre-decoupling period average.

Graph C-10 shows the annual energy savings achieved in the Company’s dedicated low-income projects from 2007 to 2017 and the additional low-income energy savings achieved by the Energy Design Assistance and Multi-Family Building Efficiency projects in 2015 and 2017. The Energy Design Assistance and Multi-Family Building Efficiency projects are better-positioned to serve some low-income multi-family customers than the dedicated-low-income Low-Income Multi-Family Building project.³⁰ If low-income savings realized by the Energy Design Assistance and Multi-Family Building Efficiency projects is included, the Company’s 2017 low-income energy savings were 194% higher than the average low-income energy savings in the pre-decoupling period.

Graph C-10: CIP Energy Savings from Low-Income Projects



C-11) *What other information, whether qualitative or quantitative, should be considered in evaluating the Company’s commitment to energy efficiency and conservation?*

³⁰ The Company also discussed the transfer of participation away from the Low-Income Multi-Family project to Energy Design Assistance and Multi-Family Building Efficiency in response to the Department’s third information request in Docket No. G-008/CIP-12-564.05, filed on June 12, 2017.

CenterPoint Energy Minnesota Gas' commitment to energy efficiency is clearly demonstrated by the information contained in this report. The Company consistently exceeds its annual energy savings goals and is recognized as a national leader³¹ on energy efficiency among natural gas utilities. As detailed in the data presented above, 2017 total energy savings exceeded 2.5 million Dth for the first time.

Not only does the Company deliver robust and comprehensive efficiency programs, but it continuously seeks to improve its CIP offerings in order to achieve greater energy savings and better meet its customers' needs. Company staff regularly attends trade shows, industry conferences, and other events in order to develop new ideas for program enhancements and to stay abreast of energy efficiency industry trends. Whenever possible, these ideas are developed and brought forward as modifications to the Company's Triennial Plan, rather than allowing offerings to remain static over the course of a Triennium.

In 2018, CenterPoint Energy Minnesota Gas is developing or implementing several program enhancements. The Company's Triennial Plan includes an on-bill repayment program, but a more complete implementation plan for roll-out of the program was submitted on July 3, 2018.³² The On-Bill Loan Repayment program is intended to provide a simple and convenient way for customers to pay for energy efficiency improvements to their property via their natural gas bill. While the Company will not provide the capital for the loans, CenterPoint Energy Minnesota Gas will work with its implementation partner to process loan payments from customers to participating lenders. Increasingly, building owners and property managers would like access to whole-building customer energy use data so that they may benchmark the energy use of their buildings in order to comply with local government benchmarking policies, obtain building energy efficiency certifications, or identify a need for energy efficiency projects. The Company also began development of a tool to partially automate the

³¹ In 2013, several of CenterPoint Energy Minnesota Gas' CIP programs were recognized as Exemplary Energy Efficiency Programs by ACEEE. In 2014, the Company's Minnesota CIP received an award from E Source for achieving the greatest energy savings in the nation as a percent of natural gas sales.

³² *In the Matter of CenterPoint Energy's Request to Modify CenterPoint Energy's 2017-2019 Triennial Conservation Improvement Program Plan*, Docket No. G-008/CIP-16-119 (July 3, 2018).

process of aggregating customer energy use data for whole-buildings and release data to authorized requesters. The Company filed its customer energy use data protection policy for whole-building data aggregation on July 20, 2018³³ and anticipates making the tool available to users by the end of 2018.

The Company's commitment to energy efficiency is further demonstrated by its ongoing efforts to identify opportunities for program enhancements. It has contracted with an independent consultant to conduct evaluations of CIP programs; findings from these evaluations will be considered for program modifications either in the 2020-2022 Triennial Plan (to be filed June 1, 2019), or as standalone modification proposals. Further, the Company supports research conducted by the American Council for an Energy Efficient Economy, the Midwest Energy Efficiency Alliance, the Gas Technology Institute, and others, in order to identify further opportunities for natural gas energy efficiency as well as emerging technologies that might support increased energy efficiency.

³³ *In the Matter of CenterPoint Energy's CenterPoint Energy Whole-Building Data Aggregation and Release Policies*, Docket No. E,G-999/CI-12-1344 (July 20, 2018).

D. REVENUE ACCRUED AND COLLECTED UNDER FULL REVENUE DECOUPLING

Overview of Model

CenterPoint Energy Minnesota Gas submits its third-year results following the methods outlined in the Decoupling Compliance filing and December 19, 2014 Reply Comments in the 2013 Rate Case. Throughout the year July 2017 - June 2018, the Company tracked its sales volumes and customer counts for use in the RD Rider. CenterPoint Energy Minnesota Gas calculated and booked a decoupling accrual monthly as part of its month-end accounting activity; at the end of the twelve-month evaluation period, the annual RD Rider adjustments by class were calculated. The Company also tracked the surcharges to collect the RD Rider balances for the September 1, 2017 – June 30, 2018 period. The balance of this account will be included in the going-forward RD rider factor. The Company, as required, will include Excel files with this report.³⁴

The monthly accounting entries reflect the over/under-collection of non-gas revenues for the decoupling program, consistent with the tariff in Section V, page 28 which states that the Company “shall record its best estimate of the amounts to be recognized under the RD Rider so as to reflect in its books and records a fair representation of the impact of this rider in actual earnings.” The net amount will be carried until the end of the Evaluation Period and will not result in changes on customer’s bills until the September after the Evaluation Period.

The calculation of the monthly accrual reflects the total for each class, unadjusted for any caps. CenterPoint Energy Minnesota Gas adjusted the decoupling accrual that exceeded the caps in the year-end calculation of the RD Rider annual adjustments. Each class was calculated separately (separate tab in the model). The spreadsheet model was updated with sales volumes and customer counts in order to determine the monthly accrual. Accruals booked throughout the year reflected interim rates

³⁴ Docket No. G-008/GR-13-316, February 15, 2018, ordering Point #5. Required that all future Annual Reports include live spreadsheets in Excel format, with formulas intact, that provide all calculations for new annual decoupling amounts, the reconciliation for the prior year’s true-up amount, and the new decoupling factors.

beginning in October 2017. At year-end, the model(s) were restated to reflect final authorized rates, final sales volumes, and customer-logic changes to reflect only the actual count of customers from October 2017 – June 2018.

Cycle Sales Data

The Sales volumes for customers taking firm service reflect the sum of the twenty-one cycles billed in that cycle-month, which matches the data used to determine the Commission approved rate case sales forecasts. CenterPoint Energy Minnesota Gas did not include any unbilled sales adjustments in the full revenue decoupling models.

Telemetered Accounts

The sales volumes for the telemetered accounts (Small Volume Dual Fuel – A; Small Volume Dual Fuel – B; Large Volume Dual Fuel and Large General Service³⁵) were matched to the months that the volumes were used. Telemetered volumes are billed in the month following the use, therefore month-end sales reports for July reflects June usage for accounts using telemetry to record sales volumes and those sales would be considered June sales. As discussed below in the Market Rate Customer section, volume information for customers identified in the “Decoupling Market Rate Exempt” group will be summed and subtracted from the total large volume figures for the month before the large volume use is included in the large volume portion of the Full Revenue Decoupling model.

³⁵ Large General Service is also referred to as Large Volume Firm.

Market Rate Customers

The RD Rider excludes CenterPoint Energy Minnesota Gas' group of Large Volume ("LV") Market Rate customers, who may take either firm or interruptible service. Customers in this group have negotiated delivery rates based upon the capability to switch to alternate energy supplies or service based upon "effective" competition. The LV Market Rate customer count and volume usage is removed from the Company's pre-decoupling revenue.

Customers who had been on standard rates and moved to market rates during the evaluation period are excluded from the "Decoupling Market Rate" group during the evaluation period. Over the course of the third evaluation period, one customer moved from standard rates to market rates. In addition, one Market Rate customer discontinued service with CenterPoint Energy Minnesota Gas in April 2018.

The Implementation Plan explained that a newly-connected customer deemed to be a LV Market Rate customer from the beginning of their service would have their volumes added to the "Decoupling Market Rate" group.³⁶ We did not add any brand-new Market Rate service customers.

CenterPoint Energy Minnesota Gas identified thirty-two large volume customers taking service under its Market Rate (MR) service rider this year. These customers were identified as exempt from decoupling, and their actual volumes were removed from their rate classes' total throughput volumes before calculating the authorized and actual Revenue Decoupling revenue each month. Those customers will not be billed the decoupling factor over the September 2018 - August 2019-time period.

³⁶ Decoupling Compliance Filing, Attachment 3, section 3: Treatment of Market Rate Customers, pages 4-5

Calculation of Decoupling Accrual

In the monthly accounting entries, the actual non-gas margin is compared to the authorized non-gas margin to determine the decoupling accrual amount. Specifically, the actual customer count and metered volumes are used to calculate the actual revenue. The non-gas margin reflects the basic delivery charge and the base per-therm delivery charge less Conservation Improvement Program (CIP) and Gas Affordability Program (GAP) charges.

The actual non-gas revenue is compared to the authorized revenue that results from the authorized number of customers and sales volumes in a rate class. Model logic shows that from July 2017-September 2017, the “authorized customers” were the greater of the rate-case authorized count or the actual customer count. Beginning in October 2017, only the actual customer count was “authorized”, per the settlement agreement.

Any excess revenue will be returned to customers, and any revenue shortfall, up to ten percent of non-gas margin including GAP, will be surcharged over the next 12-month period.

D-1) Monthly, annual, cumulative revenue deferred. What was the monthly, annual, and cumulative amount of revenue over/under collected by customer class through the RD Rider during the period being evaluated, before and after any adjustments to reflect the 10% cap? A discussion describing actions leading to these adjustments will be provided.

Table D-1: Decoupling Adjustment Balance thru June 30, 2018

	Decoupling Adjustment Balance through June 30, 2018	Adjustment Made to reflect 10% Cap	Prior Period Balance	Total
Res	(\$7,696,177)		(\$777,177)	(\$8,473,354)
Com A	(\$525,740)		(\$63,764)	(\$589,504)
Com/ Ind B	(\$611,581)		(\$53,033)	(\$664,614)
Com/ Ind C	(\$3,584,070)		(\$247,752)	(\$3,831,822)
SVDF A	(\$457,050)		\$421,470	(\$35,581)
SVDF B	(\$54,001)		\$73,211	\$19,210
LVDF	(\$416,452)		(\$15,863)	(\$432,315)
Large Volume General Firm	(\$54,931)		\$258,402	\$203,471
Total	(\$13,400,002)	0	(\$404,507)	(\$13,804,509)

Monthly data is available in Attachment D-1, and cumulative information can be found in D-10. The Excel files provided provide the requested information.

The over recovery of the 2016 – 2017 decoupling balance (Prior Period Balance column) over the 2017 – 2018 period due to colder-than-normal weather and higher-than-anticipated sales volumes will be included in the calculation of the 2018 – 2019 decoupling factors.

Revenue Deferral for 2018

At the end of the June 30, 2018, the net decoupling balance to be refunded to customers is (\$13,804,509) which will be surcharged or credited by rate class as noted.

Anticipated adjustments to Decoupling Balance in 2018-2019:

CenterPoint Energy Minnesota Gas does not anticipate any adjustments to the decoupling model in the 2018-2019 period.

Detailed calculations are contained in Attachment D-1.

D-2) Monthly, annual, cumulative revenue recovered. What was the monthly, annual, and cumulative amount of revenue recovered by customer class through the decoupling mechanism during the period being evaluated? A discussion describing actions leading to these adjustments will be provided.

This Evaluation Report covers the third Evaluation Period. Revenues collected based on the Year-2 factors are noted in Attachment D-1, Page 3as recovered through the RD Rider, and detailed in Attachment D-1. Cumulative effects are detailed in Attachment D-10. The factors were charged beginning September 1, 2017 and billed over the subsequent 12-month period.

D-3) Calculations of and Adjustment(s) due to the 10% revenue cap (if any). What was the mathematical result of the 10% cap calculation for each of the evaluation periods in the 36 months of the decoupling program?

CenterPoint Energy Minnesota Gas has provided the calculation, by class, for the 10% revenue cap. In the Model (included as Attachment D-1 and in the Excel file) the line labelled "NON-GAS MARGIN CAP" for each rate class shows the cap by month, the annual total, and calculates the 10% cap in total dollars and per DT billing factor. Note that the Company's decoupling revenue did not exceed the cap in any of the eight classes. When there is a credit owed to customers, no cap applies.

D-4) Discussion of actions affecting decoupling calculations. *Has CenterPoint Energy Minnesota Gas made any changes to its methods or calculations of the decoupling deferral over the course of the pilot? Describe any such changes, their purpose, and impact on the deferral.*

This year's twelve-month model reflects the 2015 Rate Case authorized revenue for July 2017- September 2017. CenterPoint Energy Minnesota Gas filed a general rate case on August 2, 2017,³⁷ with interim rates beginning October 1, 2017; since final rates and sales volumes were approved as part of the settlement, the authorized revenue for Oct 2017 – June 2018 reflects the 2017 Rate Case. As described in the settlement agreement a change was made to the "Authorized Revenue" calculation to use only the actual number of customers, instead of the greater-of-the actual or authorized customer count; this change was effective with the October 1, 2017 start of the test year.

D-5) Changes to methodology, input values or calculations –purpose and impact: *Were there any issues that arose regarding the methodology or input values for calculation of the accounting journal entries which implemented the decoupling accrual? Explain and quantify the impact of any changes in methodology or input values.*

There were no issues that arose regarding input values for the calculation of the accounting journal entries which significantly impacted the decoupling accrual.

D-6) Pretax margin and net income impact. *What was the pretax margin and net income impact resulting from the recoverable revenue accrual for the period being evaluated as a result of the pilot? What percentage of total pretax margins and net income for the Company's operations is represented by the accruals in each year?*

³⁷ Docket G-008/GR-17-285.

Table D-6: Decoupling Deferral

	Pre-tax Margin ³⁸	Net Operating Income
1.Total CenterPoint Energy Minnesota Gas income	\$414,427,487	\$80,401,571
	Decoupling Deferral	After Tax Impact ³⁹
2. Decoupling deferral	\$20,394,445	\$11,957,571
3. Decoupling as % of Total (line 2/line 1)	5%	15%

D-7) By rate class – recorded gas margin revenue – before and after accrual.
What was CenterPoint Energy Minnesota Gas’ recorded gas margin revenue and recorded gas margin revenue by class and per customer for the period being evaluated, before and after decoupling deferrals?

As discussed in the Decoupling Compliance Filing, the accounting entry was entered into the Company’s accounting records as a single value and the model tracked the by-class accruals.⁴⁰

Table D-7: Margin by Rate Class

Class	Authorized Revenue	Actual Revenue	Decoupling Adjustment	Revenue W/Decoupling Accrual
A	B	C	D	E = C + D
Residential	\$221,573,168	\$229,269,346	(\$7,696,177)	\$221,573,168
Com- A	9,699,259	10,225,000	(525,740)	\$9,654,085
Com-Ind B	13,312,218	13,923,799	(611,581)	\$13,312,218
Com-Ind C	55,474,745	59,058,815	(\$3,584,070)	\$55,474,745
SVDF-A	6,192,921	6,649,971	(\$457,050)	\$6,192,921
SVDF-B	4,907,340	4,961,341	(\$54,001)	\$4,907,340
LVDF-STD	9,340,681	9,757,133	(416,452)	\$10,692,658
LV- FIRM	1,359,746	1,414,676	(54,931)	\$416,176
TOTAL	\$321,860,079	\$335,260,081	(\$13,400,002)	\$321,860,079

³⁸ The pre-tax margin shown in table D-6 above represents revenue less cost of gas.

³⁹ Tax impact assumes Decoupling Deferral used the 35% federal tax rate for 7-2017-12/2017, changed to 21% for 01/2018-06/2018.

⁴⁰ Attachment 2: Implementation Plan, Monthly and annual calculations/tracking starting on page 2 of the Decoupling Compliance Filing.

D-8) By rate class – decoupling surcharge/refund revenue Billing Factors. Provide a detailed calculation of the factors to be billed by rate class for the upcoming year. (September 2018 – August 2019)

Table D-8: Decoupling Factors

	Decoupling Adjustment / Therm	Average Monthly Use (in Therms)	Average Monthly Decoupling Adjustment
Residential	(\$0.01208)	74	(\$0.89)
Commercial - A (<1500 Therms/Yr)	(\$0.02396)	68	(\$1.63)
Commercial / Industrial -B (1,500 - 5,000 Therms /Yr)	(\$0.01190)	245	(\$2.92)
Commercial / Industrial -C (> 5,000 Therms /Yr)	(\$0.01152)	1,437	(\$16.55)
Small Volume Dual Fuel - A (< 120,000 Therms/Year)	(\$0.00068)	3,673	(\$2.50)
Small Volume Dual Fuel - B (> 120,000 Therms/Year)	\$0.00039	14,784	\$5.77
Large Volume Dual Fuel (Peak Day > 2,000 Therms)	(\$0.00296)	136,667	(\$404.53)
Large General Firm (Peak Day > 2,000 Therms)	\$0.01017	453,300	\$4,610.06

The calculation of the factors is detailed in Exhibit D-1, pages 1-16 CenterPoint Energy Minnesota Gas reflected the accrual by class for the 2017-2018 reporting period.

D-9) Monthly bill impact for the upcoming year? Include an analysis of typical uses
What is the monthly customer bill impact of the decoupling rate adjustment for customers during the recovery period? The bill impact analysis shall examine annual usages typical of customers having: a) the average residential levels of annual usage, b) natural gas space heat, c) water heat. This should be expressed as an average monthly dollar amount collected and percentage based on the total decoupling amount to be collected divided by total estimated revenue for residential customers.

The monthly estimated bill impacts of the decoupling factor for the residential class are illustrated in Table D-9 below. The Company used the 2017 Rate Case authorized UPC for the “average” use, and estimated use for the space heating and water heating monthly values based on annual use assumptions. Final 2017 Rate Case proposed rates, as shown below the table, were assumed for total bill impacts.

See Page 16 of Attachment D-1 for detailed class-level billing estimates for average use in classes other than Residential.

Table D-9: Residential: Customer Bill impact									
		Use per Customer in Therms				Decoupling Impact			
		Space Heat	Water Heater	Heat + Water	Total	Space Heat	Water Heater	Heat + Water	Total
1	Sep-18	10	15	25	27	(0.12)	(0.18)	(0.30)	(0.33)
2	Oct-18	35	15	50	59	(0.42)	(0.18)	(0.60)	(0.71)
3	Nov-18	82	16	98	118	(0.99)	(0.19)	(1.18)	(1.43)
4	Dec-18	117	18	135	164	(1.41)	(0.22)	(1.63)	(1.98)
5	Jan-19	117	18	135	164	(1.41)	(0.22)	(1.63)	(1.98)
6	Feb-19	98	18	116	140	(1.18)	(0.22)	(1.40)	(1.69)
7	Mar-19	57	15	72	86	(0.69)	(0.18)	(0.87)	(1.04)
8	Apr-19	29	15	44	51	(0.35)	(0.18)	(0.53)	(0.62)
9	May-19	10	15	25	27	(0.12)	(0.18)	(0.30)	(0.33)
10	Jun-19	3	15	18	19	(0.04)	(0.18)	(0.22)	(0.23)
11	Jul-19	1	15	16	16	(0.01)	(0.18)	(0.19)	(0.19)
12	Aug-19	3	15	18	19	(0.04)	(0.18)	(0.22)	(0.23)
13	Total	562	190	752	890	(\$6.79)	(\$2.30)	(\$9.08)	(\$10.75)
		Total Bill : Assumes rates below				Decoupling % of Total Bill			
		Space Heat	Water Heater	Heat + Water	Total	Space Heat	Water Heater	Heat + Water	Total
14									
15	Sep-18	\$15.61	\$18.67	\$24.78	\$26.00	-0.8%	-1.0%	-1.2%	-1.3%
16	Oct-18	\$30.89	\$18.67	\$40.06	\$45.56	-1.4%	-1.0%	-1.5%	-1.6%
17	Nov-18	\$59.62	\$19.28	\$69.40	\$81.62	-1.7%	-1.0%	-1.7%	-1.7%
18	Dec-18	\$81.01	\$20.50	\$92.01	\$109.74	-1.7%	-1.1%	-1.8%	-1.8%
19	Jan-19	\$81.01	\$20.50	\$92.01	\$109.74	-1.7%	-1.1%	-1.8%	-1.8%
20	Feb-19	\$69.40	\$20.50	\$80.40	\$95.07	-1.7%	-1.1%	-1.7%	-1.8%
21	Mar-19	\$44.34	\$18.67	\$53.51	\$62.06	-1.6%	-1.0%	-1.6%	-1.7%
22	Apr-19	\$27.22	\$18.67	\$36.39	\$40.67	-1.3%	-1.0%	-1.5%	-1.5%
23	May-19	\$15.61	\$18.67	\$24.78	\$26.00	-0.8%	-1.0%	-1.2%	-1.3%
24	Jun-19	\$11.33	\$18.67	\$20.50	\$21.11	-0.3%	-1.0%	-1.1%	-1.1%
25	Jul-19	\$10.11	\$18.67	\$19.28	\$19.28	-0.1%	-1.0%	-1.0%	-1.0%
26	Aug-19	\$11.33	\$18.67	\$20.50	\$21.11	-0.3%	-1.0%	-1.1%	-1.1%
27	Total	\$457.49	\$230.13	\$573.62	\$657.97	-1.5%	-1.0%	-1.6%	-1.6%
28									
29		2017 RC Final				Total=2017 Rate Case UPC			
30		Basic Charge			\$9.50				
31		Billing Rate (\$/Therm)							
32		Cost of Gas			\$0.40410				
33		Delivery Charge w/o CIP			\$0.18674				
34		CIP (CCRC+CCRA)			\$0.02803	CIP = \$0.02362+\$0.00441			
35		Delivery Charge Total			\$0.21477				
36		Decoupling Adj			(\$0.01208)				
37		GAP			\$0.00441				
38		Total Billing Rate			\$0.61120				

D-10) Results under “Traditional”, (i.e., no decoupling) regulation. *A comparison of how revenues under traditional regulation would have differed from those collected under the decoupling pilot; and an evaluation of if the pilot stabilized revenues for the class(es) under the pilot and how has such stabilization impacted the utility’s overall risk profile.*

From September 2017 – July 2018, CenterPoint Energy Minnesota Gas collected \$23,479,330 of its \$23.4 million accrual for Year 2 of the RD Rider, and estimates it will collect an additional \$425,000 in August 2018. The net amount will roll over into the Year 3 factors, as shown in Table D-1 above. The requested comparison of revenue with and without decoupling (i.e. “traditional” rates) is detailed in the attachments under D-10.

The decoupling deferral of (\$13,400,002) for the 2017-2018 period was approximately 4% of total revenue. Since revenue includes cost of gas, decoupling did not significantly impact overall revenue; however, decoupling does allow CenterPoint Energy Minnesota Gas to recover the revenue authorized by the Commission. The majority of the proxy companies used to establish the Company’s return on equity (“ROE”) in base rates have a variety of revenue stabilization mechanisms. Therefore, the decoupling mechanism simply makes the Company more comparable to the proxy companies and any effect of revenue stabilization structure is reflected in the ROE analysis.

D-11) Rate Case filings during evaluation period – impact on methods/mechanics. *Did CenterPoint Energy Minnesota Gas file any rate cases during the pilot period? If so, when? To the extent new base rates took effect during the pilot period, when did those new rates take effect and what impact did that have on the methods and mechanics of the RD Rider over/under collection calculations?*

The Company filed the 2017 Rate Case on Aug 2, 2017 and interim rates from the 2017 Rate Case took effect on October 1, 2017⁴¹. The Interim Rate Charges affected the methods or mechanics of the Decoupling calculations in the following ways:

- As described in the Decoupling Compliance Filing, interim rates initially replaced the rates from the 2015 rate case beginning in October 2017 and carried through June 2018.
- In the RD Rider model, the Basic Charge reflects the tariffed, authorized basic charge as shown in the tariff, increased by the 13.2% interim rate increase beginning in October 2017 through June 2018.
- The Delivery charge in the model beginning in October 2017 reflected the effective per-DT rate including the interim rate increase.
- In the RD Decoupling model, the “authorized sales volumes and customer” base was updated to reflect the initial customer count and initial sales volumes in the 2017 rate case.
- When the Revenue Decoupling evaluation report was prepared, the Company replaced the values noted above from October 2017 on to reflect the final sales forecast (based on a 10-year weather-normal assumption) and final rates that will be implemented in November 2018. The Company restated its Year-3 accrual to reflect the impact of the final authorized customers and sales volume.
- In addition, the formulas for the “NON-GAS MARGIN cap” and “Allowed Net Non-Gas Revenues” were changed from an “IF” formula that selected the greater of the “Authorized Customers” and the “Actual Customers” for each month beginning in October 2017.

The Company restated the RD Rider model revenue with the final sales forecast, final customer counts, and final billing rates (basic charge and volumetric delivery charges), in this filing after consulting with the Department of Commerce and the PUC Staff. This change is made before the implementation of the final rates in the 2017 rate case, but the values are known and this action will avoid making a subsequent change to the RD Rider factors.

⁴¹ Interim rates began on October 1, 2017 – Order July 20, 2018 in Docket No. G-008/GR-17-285

E. RELATED RATE AND CUSTOMER USAGE INFORMATION

E-1) Total Therms by rate schedule. What were total therm sales (and transportation) volumes by rate schedule in the period being evaluated?

Table E:1: Actual and Authorized Usage (DT)

	Actual July 2017 – June 2018	Authorized July 2017 – June 2018⁴²
Residential	74,709,694	70,376,412
Commercial A	2,639,287	2,433,564
Commercial/Industrial B	6,172,150	5,656,549
Commercial/Industrial C	36,869,542	32,849,315
SVDF A (Sales + Transport)	5,820,013	5,421,266
SVDF B (Sales + Transport)	5,084,783	4,954,519
Large General Firm Service (Sales + Transport)	2,171,370	1,665,830
Large Volume Dual Fuel (Sales + Transport) ⁴³	16,166,805	15,171,628
Total	149,633,643	138,529,044

Please note that the volumes shown in table E-1 reflect CenterPoint Energy Minnesota Gas' cycle-month sales.

E-2) Gas Margin. What were total gas margin revenues by rate schedule, in the period being evaluated?

Revenue was calculated using rate tables. Values do not include sales tax or franchise fees. The values include estimated impacts of the inverted block rates when applicable, and the CE Rider when in effect.

⁴² July 2017 – September 2017 Authorized: Docket No. G-008/GR-15-424, October 2017 – June 2018: Docket No. G-008/GR-17-285 Final.

⁴³ Combines Large Volume Firm and Large Volume Dual Fuel, excludes usage from Market Rate customers.

TABLE E-2: Revenue by Rate Class (in \$ millions)

12 Months ended June	Res	Com A	Com/ Ind B	Com/ Ind C	SVDF A	SVDF B	Lrg Vol ⁴⁴	Total
2008	\$822.0	\$29.6	\$61.4	\$284.5	\$98.7	\$80.8	N/A	\$1,377.0
2009	\$643.1	\$20.5	\$46.9	\$214.6	\$76.0	\$58.7	N/A	\$1,059.8
2010	\$559.1	\$18.3	\$40.0	\$176.9	\$59.5	\$42.8	N/A	\$896.6
2011	\$578.3	\$20.6	\$45.2	\$183.3	\$59.8	\$43.3	N/A	\$930.5
2012	\$412.4	\$13.9	\$28.7	\$128.2	\$41.0	\$29.4	N/A	\$653.6
2013	\$529.9	\$20.6	\$38.7	\$159.9	\$53.8	\$36.0	N/A	\$838.9
2014	\$695.7	\$25.2	\$53.7	\$231.7	\$74.5	\$47.6	N/A	\$1,128.4
2015	\$589.2	\$19.2	\$42.3	\$204.0	\$56.1	\$37.7	N/A	\$948.5
2016	\$423.8	\$14.4	\$28.4	\$140.9	\$35.4	\$23.9	\$59.4	\$726.2
2017	\$505.8	\$19.9	\$36.8	\$181.3	\$38.5	\$25.7	\$75.5	\$883.5
2018	\$591.6	\$23.0	\$44.0	\$230.0	\$31.2	\$25.3	\$76.9	1022.0

E-3) Customer Growth. What was the rate of average annual gas customer growth by rate schedule? How does this compare to CenterPoint Energy Minnesota Gas' historical levels of gas customer growth in pre-decoupling time period? What is the Company's forecast for future customer growth? What were the average annual customer count totals by rate schedule for the Evaluation Period?

The average rate of annual gas customer growth by rate schedule and the comparison of historical levels of customer growth in the pre-decoupling period are shown in TABLE E-3 Customer Growth. The pre-decoupling baseline period is defined as calendar years 2007 to 2009. The Company's forecast for future customer growth is shown in TABLE E-7B 5-Year Customer Forecast. The average annual customer count is shown below in TABLE E-4A: Customer Count.

⁴⁴ Combines Large Volume Firm and Large Volume Dual Fuel, excludes margin from Market Rate customers.

TABLE E-3 Customer Growth from Prior 12-Month Period⁴⁵

Ending Time Period	Res	Com A	Com/ Ind B	Com/ Ind C	SVDF A	SVDF B	Lrg Vol ⁴⁶	Total
12 Mos. ended June								
2009	0.7%	3.4%	1.5%	-2.7%	0.6%	-2.45%	N/A	0.7%
2010	0.5%	3.2%	-1.6%	-2.7%	-0.5%	-2.6%	N/A	0.5%
2011	0.6%	4.2%	-2.1%	-3.6%	-0.6%	-1.9%	N/A	0.5%
2012	0.4%	-1.6%	1.7%	1.8%	-0.6%	-2.6%	N/A	0.4%
2013	0.8%	6.7%	-4.6%	-4.3%	-1.3%	-2.2%	N/A	0.8%
2014	1.0%	-6.6%	6.3%	6.8%	-2.2%	-1.4%	N/A	0.9%
2015	1.1%	-2.5%	2.8%	4.1%	-6.5%	-3.5%	N/A	1.0%
2016	1.1%	1.2%	-1.0%	1.7%	-3.7%	-3.0%	N/A	1.0%
2017	1.1%	3.9%	-1.4%	-1.8%	-8.2%	-10.1%	2.3%	1.0%
2018	1.3%	-1.5%	1.2%	6.1%	-44.0%	-18.6%	0.9%	1.2%
2007-2018	0.9%	1.3%	0.4%	1.1%	-10.3%	-7.5%	N/A	

*E-4) Percentage of customers (count and sales volume) **residential versus commercial** during the pilot. What proportion of customers subject to decoupling was residential versus commercial during the pilot?*

Tables E-4A and E-4B provide a summary of the customer count and volume information.

⁴⁵ The pre-decoupling baseline period is defined as calendar years 2007 to 2009.

⁴⁶ Combines Large Volume Firm and Large Volume Dual Fuel, excludes margin from Market Rate customers.

TABLE E-4A: Customer Count

12 Months ended June	Res	Com/Ind ⁴⁷	SVDF ⁴⁸	Lrg Vol ⁴⁹	Total	% Resid
2008	723,423	63,287	2,638	N/A	789,348	92%
2009	728,447	63,997	2,639	N/A	795,083	92%
2010	732,081	64,114	2,617	N/A	798,812	92%
2011	736,136	64,332	2,595	N/A	803,063	92%
2012	739,295	64,503	2,572	N/A	806,370	92%
2013	745,201	65,016	2,535	N/A	812,752	92%
2014	752,407	65,531	2,484	N/A	820,422	92%
2015	760,426	66,139	2,344	N/A	828,909	92%
2016	768,696	66,621	2,263	217	837,580⁵⁰	92%
2017	776,910	67,166	2,063	222	846,138⁵¹	92%
2018	787,172	68,159	1,483	224	856,813⁵²	92%

⁴⁷ Combines Commercial A, Commercial/ Industrial B, and Commercial/ Industrial C customers.

⁴⁸ Combines Small Volume Dual Fuel A and Small Volume Dual Fuel B customers.

⁴⁹ Combines Large Volume Firm and Large Volume Dual Fuel, excludes margin from Market Rate customers.

⁵⁰ For comparison purposes, the 217 Large Volume customers in 2016 are excluded from the total. The total number of customers in 2016 is 837,797 = (217 + 837,580).

⁵¹ For comparison purposes, the 222 Large Volume customers in 2017 are excluded from the total. The total number of customers in 2017 is 846,160 = (222 + 846,138).

⁵² For comparison purposes, the 224 Large Volume customers in 2018 are excluded from the total. The total number of customers in 2018 is 857,037 = (224 + 856,813).

TABLE E-4B: Usage (in million DT)

12 Months ended June	Res	Com/Ind ⁵³	SVDF ⁵⁴	Lg Vol ⁵⁵	Total	% Resid
2008	72.8	34.5	19.5	N/A	126.8	57%
2009	70.8	33.6	18.5	N/A	122.9	58%
2010	64.7	30.1	17.0	N/A	111.8	58%
2011	70.0	33.1	17.8	N/A	120.9	58%
2012	55.6	26.6	14.5	N/A	96.7	57%
2013	70.3	34.3	17.4	N/A	122.0	58%
2014	79.7	39.9	18.6	N/A	138.2	58%
2015	70.5	36.9	16.1	N/A	123.5	57%
2016	60.8	32.3	13.8	15.0	106.9⁵⁶	57%
2017	62.9	35.5	12.8	17.6	111.2⁵⁷	57%
2018	74.7	45.7	10.9	18.3	131.3⁵⁸	57%

⁵³ Combines Commercial A, Commercial/ Industrial B, and Commercial/ Industrial C customers.

⁵⁴ Combines Small Volume Dual Fuel A and Small Volume Dual Fuel B customers.

⁵⁵ Combines Large Volume Firm and Large Volume Dual Fuel, excludes margin from Market Rate customers.

⁵⁶ For comparison purposes, the 15,000,000 DT used by Large Volume customers in 2016 was excluded from the Total. The Total number of usage for 2016 is ~122,000,000 DT = (15,000,000 + 106,900,000).

⁵⁷ For comparison purposes, the 17,560,000 DT used by Large Volume customers in 2017 was excluded from the Total. The Total number of usage for 2017 is ~128,453,000 DT = (17,560,000 + 111,203,000).

⁵⁸ For comparison purposes, the 18,338,000 DT used by Large Volume customers in 2018 was excluded from the Total. The Total number of usage for 2018 is ~149,634,000 DT = (18,338,000 + 131,295,000).

E-5) Use per customer – On a rate schedule basis, how has actual annual gas use per customer changed through the periods being evaluated?

TABLE E-5: Use Per Customer (DT)⁵⁹

12 Months ended June	Res	Com A	Com/ Ind B	Com/ Ind C	SVDF A	SVDF B	Lg Vol ⁶⁰
2008	100.6	97.0	296.7	1,420.3	4,870	19,486	N/A
2009	97.3	78.3	287.1	1,437.6	4,733	18,219	N/A
2010	88.4	68.0	260.4	1,324.5	4,439	16,862	N/A
2011	95.1	80.3	304.7	1,476.5	4,708	17,884	N/A
2012	75.2	56.3	225.9	1,199.2	3,854	14,854	N/A
2013	94.3	84.0	325.8	1,562.2	4,826	17,410	N/A
2014	106.0	94.9	348.5	1,711.4	5,400	18,406	N/A
2015	92.7	77.5	291.3	1,560.4	4,863	17,081	N/A
2016	79.1	64.1	244.1	1,363.9	4,296	15,145	69,458
2017	81.0	71.4	270.1	1,519.1	4,325	15,743	79,199
2018	94.9	90.5	321.9	1,861.6	1,861	17,800	81,928
Auth. ⁶¹	89.0	81.2	294.0	1,727	4,407	17,741	77,350

E-6) Changes to Prices – Chronological listing of docket, price-per-therm adjustments (commodity, delivery, demand, GAP, decoupling factors, etc.) What has been the change in the Company’s natural gas delivered average monthly price per therm by rate schedule pre-decoupling through the period being evaluated? Provide a detailed incremental chronological listing (including Docket #) and price per therm impact of all rate adjustments (commodity, general rate case, decoupling, etc.) What was the cumulative impact factoring in all rate adjustments from period before decoupling to the period being evaluated?

The chronological listing of docket for price-per-term adjustments is shown in Attachment E-6A. The chronological listing of all billed rates from July 2007 to June

⁵⁹ Calculated using annual DT divided by average annual customer count.

⁶⁰ Combines Large Volume Firm and Large Volume Dual Fuel, excludes margin from Market Rate customers.

⁶¹ Authorized Use Per Customer: 2017 Rate Case Settlement Values

2017 for each rate class included in decoupling is shown in Attachment E-6B. The pre-decoupling period baseline period is defined as calendar years 2007 to 2009.

E-7) *Forecast – 5 year projection of customers/use per customer/total sales/ margin. What is the Company’s most recently available five year forecast for (a) natural gas rates/prices, and (b) numbers of customers by rate schedule, and (c) usage per customer by rate schedule, and (d) overall therm volumes and margin revenues by rate schedule in each available projected future period?*

Natural gas Rates/prices

The Company detailed its projections in its Annual Automatic Adjustment plan filing in section 8.1, made on the same day as the present report (September 4, 2018).

Number of customers

The number of customers by rate schedule in Table E-7A is provided in CenterPoint Energy Minnesota Gas annual Natural Gas Utility Information reported annually on July 1, 2018 report required by Minnesota Rules 7610.0800-7610.1130.

TABLE E-7B: 5-Year Customer Forecast⁶²

<u>Sales Service</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>Annual Growth</u>
Residential	810,357	821,436	832,934	844,350	855,728	1.4%
Commercial A	30,271	30,838	31,417	31,996	32,574	1.9%
Com/Ind B	19,196	19,169	19,142	19,115	19,088	-0.1%
Com/Ind C	19,269	19,266	19,263	19,260	19,257	0.0%
SVDF A	951	951	951	951	951	0.0%
SVDF B	197	197	197	197	197	0.0%
LVDF and LGS Firm	121	121	121	121	121	0.0%
Transport						
Com/Ind C	473	473	473	473	473	0.0%
SVDF A	59	59	59	59	59	0.0%
SVDF B	37	37	37	37	37	0.0%
LVDF and LGS Firm	127	127	127	127	127	0.0%
Total	881,058	892,674	904,721	916,686	928,612	0.0%

⁶² Forecast is annual average based on same process as provided in July 1 Report, Docket No. G-999/PR-17-19

Usage per customer by rate schedule

The Usage per Customer information in Table E-7C is calculated as (total projected annual class use) divided by (the number of customers projected in the class). The Company provided this information in the annual Natural Gas Utility Information report filed on July 1, 2018. The report was required by Minnesota Rules 7610.0800-7610.1130.

TABLE E-7C: Five Year Use Per Customer Forecast (DT⁶³)

<u>Sales Service</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Residential	89.0	88.7	88.3	88.2	87.8
Commercial A	81.8	82.4	81.9	81.9	81.9
Com/Ind B	304.3	305.9	304.4	304.4	304.3
Com/Ind C	1,615	1,619	1,614	1,617	1,620
SVDF A	4,604	4,604	4,604	4,604	4,604
SVDF B	19,701	19,701	19,701	19,701	19,701
LVDF and LGS Firm	56,992	56,992	56,992	56,992	56,992
<u>Transport</u>					
Com/Ind C	6,727	7,985	7,985	7,985	7,985
SVDF A	4,034	4,034	4,034	4,034	4,034
SVDF B	14,784	14,784	14,784	14,784	14,784
LVDF and LGS Firm	380,992	380,992	380,992	380,992	380,992
<hr/>					
Firm UPC	126.9	126.2	125.2	124.7	123.9

a) *Overall therm volumes and margin revenues by rate schedule in each available projected future period.*

The total volume forecast information in Tables E-7D1 and E-7D2 is provided in the annual Natural Gas Utility Information report filed annually on July 1. The Margin in Dollars for rate classes subject to decoupling in Table E-7D2 below is calculated as the margin rates multiplied by the forecasted volumes plus the number of customers x 12 months x monthly customer charge for each rate class. The LVDF and LGS Firm revenue numbers (Table E-7D: 2) do not include Market Rate customers.

⁶³ Note that 1 DT = 10 Therms.

TABLE E-7D 1: 5-Year Volume Forecast (DT)

<u>Sales Service</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Residential	72,101,000	72,839,000	73,570,000	74,480,000	75,160,000
Commercial A	2,477,000	2,541,000	2,573,000	2,621,000	2,669,000
Com/Ind B	5,842,000	5,864,000	5,826,000	5,818,000	5,809,000
Com/Ind C	31,117,000	31,190,000	31,096,000	31,149,000	31,202,000
SVDF A	4,378,000	4,378,000	4,378,000	4,378,000	4,378,000
SVDF B	3,881,000	3,881,000	3,881,000	3,881,000	3,881,000
LVDF and LGS Firm	6,896,000	6,896,000	6,896,000	6,896,000	6,896,000
Sale Service DT	126,692,000	127,589,000	128,220,000	129,223,000	129,995,000
<u>Transport</u>					
Com/Ind C	3,182,000	3,777,000	3,777,000	3,777,000	3,777,000
SVDF A	238,000	238,000	238,000	238,000	238,000
SVDF B	547,000	547,000	547,000	547,000	547,000
LVDF and LGS Firm	48,386,000	48,386,000	48,386,000	48,386,000	48,386,000
	52,353,000	52,948,000	52,948,000	52,948,000	52,948,000
Total Thruput	179,045,000	180,537,000	181,168,000	182,171,000	182,943,000

TABLE E-7D 2: Margin Forecast

<u>Sales Service</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Residential	\$247,232,016	\$250,080,024	\$252,960,765	\$256,216,596	\$258,974,124
Commercial A	\$10,811,237	\$11,051,851	\$11,225,348	\$11,433,483	\$11,641,438
Com/Ind B	\$15,077,834	\$15,109,594	\$15,036,179	\$15,015,352	\$14,992,772
Com/Ind C	\$60,132,632	\$60,246,225	\$60,096,042	\$60,178,046	\$60,260,049
SVDF A	\$6,071,280	\$6,071,280	\$6,071,280	\$6,071,280	\$6,071,280
SVDF B	\$4,671,200	\$4,671,200	\$4,671,200	\$4,671,200	\$4,671,200
LVDF and LGS Firm	* \$1,792,830	\$1,792,830	\$1,792,830	\$1,792,830	\$1,792,830
<u>Transport</u>					
Com/Ind C	\$5,130,399	\$6,070,202	\$6,070,202	\$6,070,202	\$6,070,202
SVDF A	\$405,714	\$405,714	\$405,714	\$405,714	\$405,714
SVDF B	\$712,580	\$712,580	\$712,580	\$712,580	\$712,580
LVDF and LGS Firm	* \$3,410,245	\$3,410,245	\$3,410,245	\$3,410,245	\$3,410,245

E-8) New Customer Information – impact on model:

a) What was the impact of new customers on the decoupling calculations for the period being evaluated? Specifically, what was:

- i. The number of customers used (by class) in the decoupling calculations,
- ii. The number of customers approved (by class) in the most recent general rate case,
- iii. The difference between i and ii,
- iv. The margin associated with iii, and
- v. The per customer impact of iv.

The monthly detail is shown in the models, in Attachment D-1 and is summarized below. All customers are treated the same in the model – there is no difference between a “new” customer and an established account.

TABLE E-8A: NUMBER OF CUSTOMERS

	July 17 - June 18 ⁽¹⁾	2015 Rate Case (October 2015 - September 2016) ⁽²⁾	Difference	2017 Rate Case (October 2017 - September 2018) ⁽³⁾	Difference
Res	787,172	772,307	14,865	787,054	118
ComA	29,177	28,961	216	30,324	(1,147)
Com/ Ind B	19,177	19,602	(425)	19,000	177
Com/ Ind C	19,805	18,783	1,022	19,255	550
SVDF A	1,197	1,937	(740)	1,181	16
SVDF B	286	385	(99)	278	8
Large Volume	224	244	(20)	251	(27)
Total	857,037	842,219	14,818	857,343	(306)

TABLE E-8B: ASSOCIATED MARGIN⁶⁴

	July 17 - June 18 ⁽¹⁾	Authorized as Shown in Attachment D-1	Difference	Authorized Net Revenue Per Customer	Margin Associated with the Difference
Res	787,172	787,054	118	\$281.02	\$33,160
ComA	29,177	30,324	(1,147)	\$331.58	-\$380,322
Com/ Ind B	19,177	19,000	177	\$689.72	\$122,080
Com/ Ind C	19,805	19,255	550	\$2,785	\$1,531,833
SV DFA	1,197	1,181	16	\$4,389	\$70,229
SV DFB	286	278	8	\$17,211	\$137,691
Large Volume	224	251	(27)	\$43,100	\$10,818,100
Total	857,037	857,343	(306)		\$12,332,771

- b) *Did CenterPoint Energy Minnesota Gas implement any changes to the methodology to account for new customers during the course of the pilot?*
No changes were made to the methodology to account for new customers.
- c) *What were the monthly numbers of customers served, by rate schedule, in the evaluation period being reported on?*
See the model detail in Attachment D-1.
- d) *For the evaluation period being reported on, what was the actual average annual usage for customers subject to the decoupling rider?*
See the model detail in Attachment D-1.

E-9) Class Migration Information

- a) *What was the annual number of customer migrations as scheduled by the Company between rate classes during the time of the pilot?*

⁶⁴ For the July 2016 through June 2017.

CenterPoint Energy Minnesota Gas reviews the Commercial/Industrial firm classes annually to see if customers are in the correct sub-class. Sub-classes are based on weather-normalized annual usage. Customer migration based on the 2016 Annual review is summarized in Table E-9 and detailed in Attachment E-9.

TABLE E-9: 2017 Annual Review of Commercial / Industrial Firm Accounts

Review Period: 12 months ended May 2017
 Notification: Letter notification in July 2017
 Class Change: Updates took place in August 2017 billing

Sub-Class	Usage	Change in Customers	Change in DT
Commercial A	< 1,500 therms)	(644)	(3,216,219)
Com/Ind B	(1,500 to 4,999 therms)	246	(1,910,531)
Com/Ind C	(> 5,000 therms)	398	5,126,760
Total		0	0

b) *Based on the answer to a) above, did customers' migration have any impact upon the decoupling accruals since initiation of the pilot? Furthermore, what is the actual (or estimated if actual data is not readily available) therm usage resulting from customer migrations between rate classes.*

CenterPoint Energy Minnesota Gas does not believe that the class migration had a material impact on the decoupling program. Changes in annual volumes and the effect on the latest rate case use by sub-class are summarized in Table E-9 and detailed class movement can be found in the Attachment E-9.

c) *Does the Company periodically audit or verify rate class eligibility customer eligibility? If so, describe the timing and procedures for such audits.*

Yes, as described in part E-9(a), CenterPoint Energy Minnesota Gas verifies the eligibility of the Commercial/Industrial Firm Class annually. Each year, following

the heating season, the company reviews firm commercial and industrial customers use. When an individual customer's weather-normal use is estimated to fall outside the tariffed annual usage bands, the customer account is reassigned to the appropriate class and the customer is notified of the change.

F. OTHER INFORMATION

1. *Recognition of Decoupling by Credit Rating Agencies or financial analysts. Was the decoupling pilot Mechanism in Minnesota recognized in any public reports issued by credit rating agencies or financial analysts? If so, provide a copy of the report.*

Credit Rating Agencies

CenterPoint Energy Minnesota Gas searched the three rating agencies (Moody's, Fitch, and Standard and Poor's) for "decoupling" plus "Minnesota" and found one in 2014, three in 2015, five in 2016, and four in 2017. A summary of those reports is included in Attachment F-1A. Please note that due to disclosure prohibitions and/or copyright laws the actual reports are not provided herein. The actual reports are available for review at the Company's office.

In general, the reports included in the summary only referenced that CenterPoint Energy Minnesota Gas had a decoupling program.

Financial Analyst Reports

CenterPoint Energy Minnesota Gas also checked the reports of financial analysts for references to "CenterPoint Energy" and "decoupling" and found five for 2014, one in 2015, six in 2016, and eight more as of mid- 2018. A summary of those reports is included in Attachment F-1B. Please note that due to disclosure prohibitions and/or copyright laws the actual reports are not provided herein. The actual reports are available for review at the Company's office.

In general, the reports included in the summary generally referenced that CenterPoint Energy Minnesota Gas had implemented a decoupling program, or referenced the existence of the Minnesota Decoupling Program.

2. Other Information the company or interested parties deem helpful?

a) *Problems encountered – suggestions for improvement*

CenterPoint Energy Minnesota Gas has no additional information to report at this time.

b) *Impact on service quality*

The most recent Service Quality report for 2017 was filed on May 1, 2018 under Docket No. G-008/M-18-312. The Company believes that the RD Rider has had no impact on the quality of service customers have received during the evaluation period.

c) *Other*

The June 9, 2014 Order in the Company's 2013 Rate Case authorized the full decoupling pilot for a three-year period which ended on June 30, 2018. The Company requested to continue the full decoupling program as a permanent offering of the Company's tariffs in its 2017 Rate Case.⁶⁵ In its February 15, 2018 Order⁶⁶ extending the decoupling pilot until a final decoupling determination could be made in the Rate Case, the Commission required any changes to the decoupling program be applied during the extension period approved. The Order also required that all future Annual Reports include live spreadsheets in Excel format, with formulas intact, that provide the calculations for the new annual decoupling amounts, the reconciliation for the prior year's true-up amount, and the new decoupling factors. As part of the approved settlement agreement, the Company's current decoupling program, with modifications as noted, was made permanent.

⁶⁵ See the testimony of Mr. Burl Drews in Docket G-008/GR-17-285.

⁶⁶ Docket No. G-008/GR-13-316, February 15, 2018

G. ATTACHMENT LIST

NAME	DESCRIPTION
D-1:	RD Rider Detailed Calculations
D-10:	Revenue Estimates – Under Traditional Rates v. Decoupled Rates
E-6A:	Chronological Dockets
E-6B:	Historical Rates
E-6B1:	Residential Rates
E-6B2:	Commercial A Rates
E-6B3:	Commercial / Industrial B Rates
E-6B4:	Commercial / Industrial C Rates
E-6B5:	SVDF A System + Transport Rates
E-6B6:	SVDF B System + Transport Rates
E-6B7:	Large Volume Rates
E-9:	Detailed Class Migration
F-1A:	Credit Rating Agency Reports
F-1B:	Financial Analyst Reports

Section G - Attachments

Found in Excel File	Report Section	Attachment Page		Excel File Tab	NOTES
(1)	D-1	1	Final Billing Factors	D1 p1 Factor	
(2)	D-1	2	Year-End Results - Summary	D1 p2 2017-2018 Summary	
(1)	D-1	3	Detail of Prior Period Balance	D1 p3 Detailed Factor 2017-18	
			<u>By-Class Detailed Results</u>		
(2)	D-1	4	Residential Summary	Resid	a, b
(2)	D-1	5	Commercial - A Summary	Com A	a, b
(2)	D-1	6	Commercial / Industrial - B Summary	ComInd B	a, b
(2)	D-1	7	Commercial / Industrial - C Summary	ComInd C	a, b
(2)	D-1	8-9	Small Volume Dual Fuel - A Summary	SmDF A S&T	a
(2)	D-1	10-11	Small Volume Dual Fuel - A Summary	SmDF B S&T	a
(2)	D-1	12-13	Large Volume Dual Fuel - Standard Rate Summary	LVDF-Std Only S&T	a
(2)	D-1	14-15	Large Volume Firm - Standard Rate Summary	LG Firm Std Only S&T	a
(1)	D-1	16	Annual Average Billing impact	D1 p16 Annual Bill	
(1)	D-8		Annual Bill Impact	Monthly Factor	
(3)		D-10	Calculation of Revenue under traditional rates	Table D-10 Res	
(3)		D-10	Calculation of Revenue under traditional rates	Table D-10 ComA	
(3)		D-10	Calculation of Revenue under traditional rates	Table D-10 ComIndB	
(3)		D-10	Calculation of Revenue under traditional rates	Table D-10 ComIndC	
(3)		D-10	Calculation of Revenue under traditional rates	Table D-10 SVDF A	
(3)		D-10	Calculation of Revenue under traditional rates	Table D-10 SVDF B	
(3)		D-10	Calculation of Revenue under traditional rates	Table D-10 LVDF	
(3)		E-6A	Detailed Chronological Listing of Docket Numbers	E-6A Dockets	
(3)		E-6B1	Residential Rates	Res 1	
(3)		E-6B2	Commercial A Rates	ComA 1	
(3)		E-6B3	Commercial/Industrial B Rates	ComIndB 1	
(3)		E-6B4	Commercial/Industrial B Rates	ComIndC 1	
(3)		E-6B5	Small Volume Dual Fuel - A (System + Transport)	SVDF A 1	
(3)		E-6B6	Small Volume Dual Fuel - B (System + Transport)	SVDF B 1	
(3)		E-6B6	Large Volume Dual Fuel (System + Transport)	LVDF 1	
	F-1A:		Credit Rating Agency Report Summary		
	F-1B:		Financial Analyst Report Summary		

EXCEL FILE NAME:

Report Section	Attachment Page	Found in Excel File	NAME	Excel File Tab	NOTES
		(1)	<u>Decoupling Revenue for Sept 2017-August 2018 FINAL.xlsx</u>		
			<u>Tabs and Data found only in the Excel file- summary values pulled to other schedules</u>		
			Report summary - dollars billed under the RD Rider	HANA Revenue Sep 2017 - Aug 18	
			Estimate of August 2018 RD Rider recovery	Projected Recovery	
			Report dollars billed under the RD Rider Prior Period	HANA Sep 16-Aug 17	
		(2)	<u>RD Rider - FINAL 2017- 2018.xlsx</u>		
			<u>Data: Calculations that support tables in the report</u>		
D			Revenue with Decoupling	D7 Table	
E			Sales Volume (DT) Comparison	E1 Table	
			<u>Tabs and Data found only in the Excel file</u>		
	INPUT		Sales Detail (Customer / Actual Sales)	Sales Detail	d
	INPUT		Cycle Sales by class/ by month (small firm volumes) for Year-E	DATA Cycle Sales	
			not used - report summary from prior year	D1 p3 2016-2017 Factors	
			Report summary from prior year	2016-17 Summary	
		(3)	<u>Decoupling Report Tables thru 06 2018.xlsx</u>		
	Many		Pulls data to make tables for the report	Tab	
			<u>Tabs and Data found only in the Excel file</u>		
			Detailed Estimate of Revenue under Traditional Rates	Res 2	
			(Summary found in Table(s) D-10	ComA 2	
				ComIndB 2	
				ComIndC 2	
				SVDF A 2	
				SVDF B 2	
				LVDF 2	
	INPUT		Sales Detail - Cycle Sales	Sales	c

NOTES:

- a hidden lines contain prior year's calculations
- b Small Firm classes- hidden rows reflect accounting entries that reflect calendar sales
- at year-end, adjustment is made to reflect cycle sales data, per Tariff and Evaluation Plan
- c hidden Columns - Prior Year data / hidden lines contain RC Forecasts under Interim rates
- d hidden rows contain the telemetered class' accrual estimate - reversed following month
(Used in company books - not used in charges to customers)

Decoupling Factors: Effective September 1, 2018 - August 31, 2019
Collecting (Over) / Under recoveries for the period July 2017-June 2018

	(\$ / THERM)	
Residential	(\$0.01208)	Credit
Commercial - A (Less than 1500 Therms Annual Use)	(\$0.02396)	Credit
Commercial / Industrial -B (1,500 - 5,000 Therms Annual Use)	(\$0.01190)	Credit
Commercial / Industrial -C (Greater than 5,000 Therms Annual Use)	(\$0.01152)	Credit
Small Volume Dual Fuel - A - Less than 120,000 Therms per Year	(\$0.00068)	Credit
Small Volume Dual Fuel - B - Greater than 120,000 Therms per Year	\$0.00039	Surcharge
Large Volume Dual Fuel - Peak Day Greater Than 2,000 Therms	(\$0.00296)	Credit
Large Volume Firm - Peak Day Greater Than 2,000 Therms	\$0.01017	Surcharge

Summary: Decoupling

2017-2018 Decoupling

Original	Use Per Customer (UPC) Actual	Use Per Customer (UPC) Authorized	Actual Revenue / Customer	Authorized Revenue / Customer	NON_GAS MARGIN CAP	YTD Net Under(OVER)		10% Cap	Decoupling Revenue	
						(\$) (H)	(%) (I)			
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1)	Residential	94.9	89.4	\$291.26	\$281.02	\$224,695,255	(\$7,696,177)	-3.4%	\$22,469,525	(\$7,696,177)
(2)	Com- A	90.2	80.4	\$350.43	\$331.58	\$9,803,374	(\$525,740)	-5.4%	\$980,337	(\$525,740)
(3)	Com-Ind B	320.6	297.1	\$726.04	\$689.72	\$13,565,290	(\$611,581)	-4.5%	\$1,356,529	(\$611,581)
(4)	Com-Ind C	1,860.6	1,709.9	\$2,980.61	\$2,785.15	\$56,984,406	(\$3,584,070)	-6.3%	\$5,698,441	(\$3,584,070)
(5)										
(6)	SVDF-A	5,019.2	4,389.3	\$5,554.76	\$4,389.30	\$6,192,921	(\$457,050)	-7.4%	\$619,292	(\$457,050)
(7)	SVDF-B	17,925.8	17,211.3	\$17,367.59	\$17,211.34	\$4,907,340	(\$54,001)	-1.1%	\$490,734	(\$54,001)
(8)										
(9)	LVDF - STD	86,328	80,155	\$51,968.75	\$49,110.76	\$9,340,681	(\$416,452)	-4.5%	\$934,068	(\$416,452)
(10)	LV- FIRM	58,539	55,526	\$39,205.81	\$37,131.64	\$1,359,746	(\$54,931)	-4.0%	\$135,975	(\$54,931)
(11)										
(12)										
(13)	TOTAL					\$326,849,013	(\$13,400,002)		\$32,684,901	(\$13,400,002)
(14)								decrease due to CAP		\$0

CenterPoint Energy - Minnesota Gas
Docket No. G-008/M-18-_____

2017-2018 RD Rider: Decoupling - Year 3

Decoupling Factors: Effective September 1, 2018 - August 31, 2019

	YR2 Decoupling Revenue-Firm		Yr 3 Collected		Estimated		Collected		Balance		Deferred 07/17 - 06/18		Dollars in Factor		2017 Final Rate Case Adjustment 10 Yr WIN		Est. Factor	(\$ / THERM) (m=1/10)	(\$ / DTM) (l=1 / k)	Credit
	(b)	(c)	(d-b-c)	(e)	(f)	(g-e+f)	(h-c-g)	(i)	(j+h+i)	Sales (DT)	(k)	(l=1 / k)	(m=1/10)							
Residential	\$18,970,282	\$19,031,146	(\$60,864)	\$19,473,779	\$334,544	\$19,808,324	\$777,177	\$7,896,177	(\$8,473,364)	70,127,630	-0.1208	(\$0.01208)	Credit							
Commercial - A	\$442,912	\$451,672	(\$8,760)	\$507,581	\$7,855	\$515,436	(\$53,764)	(\$25,740)	(\$69,504)	2,460,505	-0.2396	(\$0.02396)	Credit							
Commercial / Industrial - B	\$1,477,242	\$1,493,109	(\$15,867)	\$1,523,242	\$22,900	\$1,546,142	(\$53,033)	(\$81,158)	(\$64,614)	5,584,961	-0.1190	(\$0.01190)	Credit							
Commercial / Industrial - C	\$815,395	\$818,163	(\$2,768)	\$1,039,786	\$26,129	\$1,065,915	(\$247,752)	(\$3,584,070)	(\$3,831,822)	33,249,697	-0.1152	(\$0.01152)	Credit							
Small Volume Dual Fuel - A -	\$1,221,656	\$1,214,951	\$6,705	\$761,813	\$31,688	\$793,481	\$421,470	(\$457,050)	(\$35,581)	5,202,972	-0.0068	(\$0.00068)	Credit							
Small Volume Dual Fuel - B - Greater than 120,000 Therms per Year	\$588,188	\$575,606	\$12,582	\$468,884	\$33,512	\$502,395	\$73,211	(\$54,001)	\$19,210	4,937,873	0.0039	\$0.00039	Surcharge							
Large Volume Dual Fuel - Peak Day Greater Than 2,000 Therms	\$79,319	\$44,077	\$35,242	\$52,078	\$7,862	\$59,940	(\$15,863)	(\$416,452)	(\$432,315)	14,595,027	-0.0296	(\$0.00296)	Credit							
Large Volume Firm - Peak Day Greater Than 2,000 Therms	(\$183,146)	(\$128,543)	(\$54,603)	(\$347,833)	(\$39,112)	(\$386,945)	\$259,402	(\$54,931)	\$203,471	1,999,821	0.1017	\$0.01017	Surcharge							
	\$23,411,848	\$23,500,181	(\$88,333)	\$23,476,330	\$425,356	\$23,904,688	(\$404,507)	(\$13,400,002)	(\$13,804,509)	138,158,486										

(b) - original filing - included two months estimated recovery (July/Aug)

(c) - Actual Revenue (July/Aug Actual)

(d) - 2016-2017 - Year 2 - Estimate difference - Carry Over

(e) - actual thru July 2017

(f) - Aug Estimate using Factor x RC sales volumes

(g) - Total collected (11 mo Actual / 1 mo Estimated)

(h) - Balance from 2016-2017 - Over Collected

(i) - Year-End - See page 2, column (H)

(j) - Dollars included in RD rider factor

(k) - 2017 Rate Case Sales Volumes- Settlement

(l) - Charge/DT

(m) - Charge per therm

LV Firm - MR 21,390,487 exempt
LVDF-MR-S 2,198,890 exempt
LVDF-MR-T 16,313,874 exempt
total 178,061,731 check

RD RIDER: Decoupling Model
Docket G-008/M-18-____
RESIDENTIAL

Line No.	2015 Rate Case			2017 - Rate Case - ALT FC TEN YEAR NORMAL										Annual	Average
	Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18			
(1) Authorized Customers	771,830	771,148	772,766	782,818	784,948	787,743	788,517	788,876	789,072	788,843	787,296	786,680	9,400,537	783.378	
(2) Authorized Sales (15-424) - DT	1,626,085	1,394,942	1,475,667	2,113,609	4,631,193	9,295,367	12,931,679	12,937,566	11,047,008	6,784,050	4,015,210	2,124,036	70,376,412		
(3) UPC - DT	2.11	1.81	1.91	2.70	5.90	11.80	16.40	16.40	14.00	8.60	5.10	2.70	89.43		
(4) Authorized Non-Gas RevReq															
(5) Authorized Basic Charge	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	
(6) Authorized Delivery Charge per DT ⁽¹⁾	\$2.26630	\$2.26630	\$2.26630	\$2.26630	\$2.30300	\$2.30300	\$2.30300	\$2.30300	\$2.30300	\$2.30300	\$2.30300	\$2.30300	\$2.30300	\$2.30300	
(7) Authorized CIP Charge per DT ⁽²⁾	\$0.34810	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	
(8) Authorized GAP Charge per DT	\$0.04620	\$0.04620	\$0.04620	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	
(9) Net Authorized Delivery Charge per DT	\$1.87200	\$1.87200	\$1.87200	\$1.86740	\$1.86740	\$1.86740	\$1.86740	\$1.86740	\$1.86740	\$1.86740	\$1.86740	\$1.86740	\$1.86740	\$1.86740	
(10) Authorized Basic Charge Revenues	\$7,332,395	\$7,325,906	\$7,341,277	\$7,436,771	\$7,457,006	\$7,483,559	\$7,490,912	\$7,494,322	\$7,496,184	\$7,494,009	\$7,479,512	\$7,473,460	\$89,305,102	\$89,305,102	
(11) Net Authorized Delivery Charge Revenues	\$3,044,030	\$2,611,332	\$2,762,449	\$3,946,953	\$8,648,290	\$17,358,169	\$24,148,617	\$24,159,611	\$20,629,183	\$12,668,535	\$7,498,002	\$3,966,425	\$131,441,597	\$134,524,512	
(12) Net Authorized Non-Gas Revenues	\$10,376,415	\$9,937,238	\$10,103,726	\$11,383,724	\$16,105,296	\$24,841,728	\$31,639,528	\$31,653,933	\$28,125,367	\$20,162,543	\$14,977,314	\$11,439,885	\$220,746,698	\$223,829,613	
(13) Allowed Net RPC	\$13.44	\$12.89	\$13.07	\$14.54	\$20.52	\$31.54	\$40.13	\$40.13	\$35.64	\$25.56	\$19.02	\$14.54	\$281.02	\$281.02	
(14) CAP - UPC (including GAP)	13.54	12.97	13.16	14.66	20.78	32.06	40.85	40.85	36.26	25.94	19.25	14.66	\$284.98	\$284.98	
(1) - Includes Delivery + CCRA + GAP				\$2.30300	incl \$1.8674 Del B4 CCRC+ \$0.2362 CCRC + \$0.0441 GAP + \$0.1553 CCRA										
(2) - CCRC + CCRA															

Line No.	ACTUAL RESULTS - CYCLE SALES												Annual	Average
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18		
(15) Actual Customers	779,539	780,073	782,150	785,182	787,208	788,832	789,917	790,656	791,281	791,391	790,221	789,608	9,446,058	787.172
(16) Actual Sales - DT	1,433,058	1,223,681	1,454,396	1,761,378	5,592,770	8,903,450	14,832,918	12,800,876	11,108,804	8,983,248	4,858,959	1,756,158	74,709,694	
(17) Actual UPC - DT	1.84	1.57	1.86	2.24	7.10	11.29	18.78	16.19	14.04	11.35	6.15	2.22	94.63	
(18)														
(19) NON-GAS MARGIN cap	\$10,555,930	\$10,117,441	\$10,295,423	\$11,511,593	\$16,356,490	\$25,286,562	\$32,267,004	\$32,297,191	\$28,692,640	\$20,527,812	\$15,210,687	\$11,576,482	\$224,695,255	\$22,469,525
(20) Authorized Basic Charge	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	10% Cap =	\$0.3193
(21) Authorized Delivery Charge per DT ⁽¹⁾	\$2.2663	\$2.2663	\$2.2663	\$2.3030	\$2.3030	\$2.3030	\$2.3030	\$2.3030	\$2.3030	\$2.3030	\$2.3030	\$2.3030	Per DT	
(22) Authorized CIP Charge per DT	\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915		
(23) Authorized GAP Charge per DT	\$0.0462	\$0.0462	\$0.0462	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441		
(24) Net Authorized Delivery Charge per DT	\$1.8720	\$1.8720	\$1.8720	\$1.8674	\$1.8674	\$1.8674	\$1.8674	\$1.8674	\$1.8674	\$1.8674	\$1.8674	\$1.8674		
(25) Actual Basic Charge Revenues	\$7,405,621	\$7,410,694	\$7,430,425	\$7,459,229	\$7,478,476	\$7,493,904	\$7,504,212	\$7,511,232	\$7,517,170	\$7,518,215	\$7,507,100	\$7,501,276	\$89,737,551	
(26) Actual Delivery Charge Revenues	\$2,682,684	\$2,290,730	\$2,722,629	\$3,289,197	\$10,443,939	\$16,626,303	\$27,698,991	\$23,904,355	\$20,744,580	\$16,775,318	\$9,073,619	\$3,279,449	\$139,531,795	
(27) Actual Non-Gas Revenues	\$10,088,305	\$9,701,424	\$10,153,054	\$10,748,426	\$17,922,415	\$24,120,207	\$35,203,202	\$31,415,587	\$28,261,749	\$24,293,532	\$16,580,719	\$10,780,725	\$229,269,346	
(28) Allowed Net Non-Gas Revenues	\$10,477,004	\$10,055,141	\$10,222,701	\$11,416,546	\$16,153,508	\$24,879,761	\$31,699,369	\$31,729,025	\$28,201,255	\$20,227,954	\$15,030,003	\$11,480,900	\$221,573,168	
(29) Under / (Over) Collection - Accrual	\$388,699	\$353,717	\$69,646	\$668,120	(\$1,768,907)	\$759,554	(\$3,503,833)	\$313,438	(\$60,494)	(\$4,065,578)	(\$1,550,715)	\$700,175	(\$7,696,177)	(\$0.1094) Factor w/o PP

RD RIDER: Decoupling Model
Docket G-008/M-18-____
Commercial - A (Less than 1500 Therms Annual Use)

Line No.	2015 Rate Case			2017 - Rate Case - ALT FC TEN YEAR NORMAL										Annual	Average
	Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16			
(1) Authorized Customers	29,088	29,131	29,260	30,124	30,193	30,262	30,282	30,300	30,320	30,341	30,362	30,390	360,053	30,004	
(2) Authorized Sales (15-424) - DT	31,527	31,574	31,716	48,198	120,772	317,751	502,681	530,250	412,352	230,592	121,448	54,702	2,433,564		
(3) UPC - DT	1.08	1.08	1.08	1.60	4.00	10.50	16.60	17.50	13.60	7.60	4.00	1.80	80.44		
(4) Authorized Non-Gas RevReq															
(5) Authorized Basic Charge	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00		
(6) Authorized Delivery Charge per DT ⁽¹⁾	\$2.21410	\$2.21410	\$2.21410	\$2.21410	\$2.32020	\$2.32020	\$2.32020	\$2.32020	\$2.32020	\$2.32020	\$2.32020	\$2.32020	\$2.32020		
(7) Authorized CIP Charge per DT ⁽²⁾	\$0.29490	\$0.29490	\$0.29490	\$0.29490	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150		
(8) Authorized GAP Charge per DT	\$0.04620	\$0.04620	\$0.04620	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410		
(9) Net Authorized Delivery Charge per DT	\$1.87300	\$1.87300	\$1.87300	\$1.88460	\$1.88460	\$1.88460	\$1.88460	\$1.88460	\$1.88460	\$1.88460	\$1.88460	\$1.88460	\$1.88460		
(10) Authorized Basic Charge Revenues	\$436,320	\$436,965	\$438,900	\$451,860	\$452,895	\$453,930	\$454,230	\$454,500	\$454,800	\$455,115	\$455,430	\$455,850	\$5,400,795	\$5,400,795	
(11) Net Authorized Delivery Charge Revenues	\$59,050	\$59,139	\$59,405	\$90,835	\$227,607	\$598,834	\$947,353	\$999,309	\$777,119	\$434,573	\$228,881	\$103,091	\$4,585,195	\$4,693,615	
(12) Net Authorized Non-Gas Revenues	\$495,370	\$496,104	\$498,305	\$542,695	\$680,502	\$1,052,764	\$1,401,583	\$1,453,809	\$1,231,919	\$889,688	\$684,311	\$558,941	\$9,985,990	\$10,094,410	
(13) Allowed Net RPC	\$17.03	\$17.03	\$17.03	\$18.02	\$22.54	\$34.79	\$46.28	\$47.98	\$40.63	\$29.32	\$22.54	\$18.39	\$331.58		
(14) CAP - UPC (including GAP)	17.08	17.08	17.08	18.09	22.71	35.25	47.02	48.75	41.23	29.66	22.71	18.47	\$335.14		

(1) - Includes Delivery + CCRA + GAP
(2) - CCRC + CCRA

\$2.32020 incl \$1.8830 Del B4 CCRC+ \$0.2362 CCRC + \$0.0441 GAP + \$0.1553 CCRA

ACTUAL RESULTS - YEAR END ADJ FOR CYCLE

	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual	Average
(30) Actual Customers	29,565	28,867	28,880	29,017	29,164	29,257	29,301	29,341	29,311	29,262	29,142	29,022	350,129	29,177
(31) Actual Sales - DT	26,535	25,342	28,803	31,028	153,508	310,339	583,869	517,721	436,252	325,073	159,846	40,972	2,639,287	
(32) Actual UPC - DT	0.90	0.88	1.00	1.07	5.26	10.61	19.93	17.64	14.88	11.11	5.49	1.41	90.17	
(33)														
(34) NON-GAS MARGIN cap	\$504,974	\$497,563	\$499,770	\$524,799	\$662,454	\$1,031,349	\$1,377,628	\$1,430,440	\$1,208,502	\$867,856	\$661,955	\$536,085	\$9,803,374	\$980,337 MARGIN CAP
(35) Authorized Basic Charge	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$0.4028 Per DT
(36) Authorized Delivery Charge per DT ⁽¹⁾	\$2.2141	\$2.2141	\$2.2141	\$2.3202	\$2.3202	\$2.3202	\$2.3202	\$2.3202	\$2.3202	\$2.3202	\$2.3202	\$2.3202	\$2.3202	10% Cap =
(37) Authorized CIP Charge per DT	\$0.2949	\$0.2949	\$0.2949	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	
(38) Authorized GAP Charge per DT	\$0.0462	\$0.0462	\$0.0462	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	
(39) Net Authorized Delivery Charge per DT	\$1.8730	\$1.8730	\$1.8730	\$1.8846	\$1.8846	\$1.8846	\$1.8846	\$1.8846	\$1.8846	\$1.8846	\$1.8846	\$1.8846	\$1.8846	
(40) Actual Basic Charge Revenues	\$443,475	\$433,005	\$433,200	\$435,255	\$437,460	\$438,855	\$439,515	\$440,115	\$439,665	\$438,930	\$437,130	\$435,330	\$5,251,935	
(41) Actual Delivery Charge Revenues	\$49,699	\$47,466	\$53,948	\$58,474	\$289,300	\$584,865	\$1,100,359	\$975,697	\$822,161	\$612,633	\$301,246	\$77,216	\$4,973,065	
(42) Actual Non-Gas Revenues	\$493,174	\$480,471	\$487,148	\$493,729	\$726,760	\$1,023,720	\$1,539,874	\$1,415,812	\$1,261,826	\$1,051,563	\$738,376	\$512,546	\$10,225,000	
(43) Allowed Net Non-Gas Revenues	\$503,492	\$496,101	\$498,298	\$522,886	\$657,357	\$1,017,851	\$1,356,050	\$1,407,781	\$1,190,906	\$857,962	\$656,861	\$533,715	\$9,699,259	
(44) Under / (Over) Collection - Accrual	\$10,318	\$15,630	\$11,150	\$29,157	(\$69,404)	(\$5,869)	(\$183,824)	(\$8,031)	(\$70,920)	(\$193,601)	(\$81,515)	\$21,169	(\$525,740)	(\$0.2160) Factor w/o PP

RD RIDER: Decoupling Model
Docket G-008/M-18-_____
Commercial / Industrial -B (1,500 - 5,000 Therms Annual Use)

Line No.	2015 Rate Case			2017 - Rate Case - ALT FC TEN YEAR NORMAL										Annual	Average
	Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16			
(1) Authorized Customers	19,606	19,608	19,613	19,002	19,001	19,000	19,000	19,000	19,000	19,000	19,000	19,000	229,830	19,153	
(2) Authorized Sales (15-424) - DT	130,584	113,096	117,015	118,325	310,434	737,478	1,097,370	1,119,634	924,012	543,646	294,820	150,137	5,656,549		
(3) UPC - DT	6.66	5.77	5.97	6.23	16.34	38.81	57.76	58.93	48.63	28.61	15.52	7.90	297.13		
(4) Authorized Non-Gas RevReq															
(5) Authorized Basic Charge	\$ 21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	
(6) Authorized Delivery Charge per DT ⁽¹⁾	\$1.8755	\$1.87550	\$1.87550	\$1.87550	\$1.90820	\$1.90820	\$1.90820	\$1.90820	\$1.90820	\$1.90820	\$1.90820	\$1.90820	\$1.90820	\$1.90820	
(7) Authorized CIP Charge per DT ⁽²⁾	\$0.3481	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	
(8) Authorized GAP Charge per DT	0.0462	\$0.04620	\$0.04620	\$0.04620	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	
(9) Net Authorized Delivery Charge per DT	\$1.48120	\$1.48120	\$1.48120	\$1.47260	\$1.47260	\$1.47260	\$1.47260	\$1.47260	\$1.47260	\$1.47260	\$1.47260	\$1.47260	\$1.47260	\$1.47260	
(10) Authorized Basic Charge Revenues	\$411,726	\$411,768	\$411,873	\$399,042	\$399,021	\$399,000	\$399,000	\$399,000	\$399,000	\$399,000	\$399,000	\$399,000	\$399,000	\$399,000	
(11) Net Authorized Delivery Charge Revenues	\$193,420	\$167,518	\$173,322	\$174,246	\$457,145	\$1,086,011	\$1,615,986	\$1,648,772	\$1,360,700	\$800,573	\$434,151	\$221,091	\$8,332,936	\$8,579,288	
(12) Net Authorized Non-Gas Revenues	\$605,146	\$579,286	\$585,195	\$573,288	\$856,166	\$1,485,011	\$2,014,986	\$2,047,772	\$1,759,700	\$1,199,573	\$833,151	\$620,091	\$13,159,366	\$13,405,718	
(13) Allowed Net RPC	\$30.87	\$29.54	\$29.84	\$30.17	\$45.06	\$78.16	\$106.05	\$107.78	\$92.62	\$63.14	\$43.85	\$32.64	\$689.72	\$702.84	
(14) CAP - UPC (including GAP)	31.17	29.81	30.11	30.44	45.78	79.87	108.60	110.38	94.76	64.40	44.53	32.98			

(1) - Includes Delivery + CCRA + GAP
(2) - CCRC + CCRA

\$1.90820 incl \$1.4726 Del B4 CCRC+ \$0.2362 CCRC + \$0.0441 GAP + \$0.1553 CCRA

ACTUAL RESULTS - YEAR END ADJ for CYCLE														Annual	Average
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18			
(30) Actual Customers	18,830	19,084	19,099	19,182	19,237	19,267	19,280	19,297	19,279	19,243	19,191	19,131	230,120	19,177	
(31) Actual Sales - DT	96,445	73,782	82,302	100,516	399,764	724,478	1,294,536	1,144,835	982,965	765,222	398,022	109,282	6,172,150		
(32) Actual UPC - DT	5.12	3.87	4.31	5.24	20.78	37.60	67.14	59.33	50.99	39.77	20.74	5.71	320.60		
(33)															
(34) NON-GAS MARGIN cap	\$611,179	\$584,511	\$590,601	\$583,986	\$880,660	\$1,538,859	\$2,093,788	\$2,129,930	\$1,826,887	\$1,239,197	\$854,659	\$631,034	\$13,565,290	\$1,356,529	
(35) Authorized Basic Charge	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	
(36) Authorized Delivery Charge per DT ⁽¹⁾	\$1.8755	\$1.8755	\$1.8755	\$1.9082	\$1.9082	\$1.9082	\$1.9082	\$1.9082	\$1.9082	\$1.9082	\$1.9082	\$1.9082	\$1.9082	\$1.9082	
(37) Authorized CIP Charge per DT	\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	
(38) Authorized GAP Charge per DT	\$0.0462	\$0.0462	\$0.0462	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	
(39) Net Authorized Delivery Charge per DT	\$1.4812	\$1.4812	\$1.4812	\$1.4726	\$1.4726	\$1.4726	\$1.4726	\$1.4726	\$1.4726	\$1.4726	\$1.4726	\$1.4726	\$1.4726	\$1.4726	
(40) Actual Basic Charge Revenues	\$395,430	\$400,764	\$401,079	\$402,822	\$403,977	\$404,607	\$404,880	\$405,237	\$404,859	\$404,103	\$403,011	\$401,751	\$4,832,520		
(41) Actual Delivery Charge Revenues	\$142,854	\$109,286	\$121,906	\$148,019	\$588,692	\$1,066,867	\$1,906,334	\$1,685,884	\$1,447,515	\$1,126,865	\$586,127	\$160,929	\$9,091,279		
(42) Actual Non-Gas Revenues	\$538,284	\$510,050	\$522,985	\$550,841	\$992,669	\$1,471,474	\$2,311,214	\$2,091,121	\$1,852,374	\$1,530,968	\$989,138	\$562,680	\$13,923,799		
(43) Allowed Net Non-Gas Revenues	\$605,237	\$579,220	\$585,252	\$578,721	\$866,819	\$1,505,909	\$2,044,644	\$2,079,831	\$1,785,621	\$1,215,003	\$841,525	\$624,436	\$13,312,218		
(44) Under / (Over) Collection - Accrual	\$66,953	\$69,170	\$62,267	\$27,880	(\$125,850)	\$34,435	(\$266,570)	(\$11,291)	(\$66,753)	(\$315,965)	(\$147,613)	\$61,756	(\$611,581)	(\$0.1081) Factor w/o PP	

RD RIDER: Decoupling Model
Docket G-008/M-18-_____
Commercial / Industrial -C (Greater than 5,000 Therms Annual Use)
Sales Service + Transport

Line No.	ComInd C - TEST YEAR FINAL	2015 Rate Case			2017 - Rate Case - ALT FC TEN YEAR NORMAL										Annual	Average	
		Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16				
(1)	Authorized Customers (Sales)	18,777	18,774	18,767	18,783	18,790	18,796	18,797	18,798	18,799	18,801	18,803	18,805	225,489	18,791		
(2)	Authorized Customers (Trans)				443	450	450	453	455	455	457	459	459	4,081	453		
(3)	Authorized Sales - DT (Sales)	915,798	838,238	895,242	1,259,038	2,169,177	4,116,227	5,488,062	5,440,927	4,711,194	3,101,231	1,925,913	1,224,435	32,085,481			
(4)	Authorized Sales - DT (Trans)				33,592	56,853	108,246	141,415	140,206	121,692	80,632	50,564	32,839	763,835			
(5)	UPC - DT (combined)	48.77	44.65	47.70	67.23	115.70	219.39	292.44	289.88	251.01	165.22	102.61	65.26	1,709.86			
(6)	Authorized Non-Gas RevReq														32,849,315		
(7)	Authorized Basic Charge	\$ 43.00	\$43.00	\$43.00	\$43.00	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50			
(8)	Authorized Delivery Charge per DT ⁽¹⁾	\$1,7444	\$1,74440	\$1,74440	\$1,74440	\$1,73480	\$1,73480	\$1,73480	\$1,73480	\$1,73480	\$1,73480	\$1,73480	\$1,73480	\$1,73480			
(9)	Authorized CIP Charge per DT ⁽²⁾	\$0.3481	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150			
(10)	Authorized GAP Charge per DT	\$0.0462	\$0.04620	\$0.04620	\$0.04620	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410			
(11)	Net Authorized Delivery Charge per DT	\$1,35010	\$1,35010	\$1,35010	\$1,29920	\$1,29920	\$1,29920	\$1,29920	\$1,29920	\$1,29920	\$1,29920	\$1,29920	\$1,29920	\$1,29920			
(12)	Authorized Basic Charge Revenues	\$807,398	\$807,269	\$806,968	\$913,235	\$913,900	\$914,185	\$914,375	\$914,518	\$914,565	\$914,755	\$914,945	\$915,040	\$10,651,152	\$10,651,152		
(13)	Net Authorized Delivery Charge Revenues	\$1,236,419	\$1,131,705	\$1,208,666	\$1,679,385	\$2,892,053	\$5,485,837	\$7,313,816	\$7,251,007	\$6,278,885	\$4,133,876	\$2,567,838	\$1,633,191	\$42,812,678	\$43,100,426		
(14)	Net Authorized Non-Gas Revenues	\$2,043,816	\$1,938,973	\$2,015,634	\$2,592,620	\$3,805,953	\$6,400,022	\$8,228,191	\$8,165,525	\$7,193,450	\$5,048,631	\$3,482,783	\$2,548,231	\$53,463,830	\$53,751,578		
(15)	Allowed Net RPC	\$108.85	\$103.28	\$107.40	\$134.85	\$197.81	\$332.54	\$427.44	\$424.12	\$373.61	\$262.16	\$180.81	\$132.28	\$2,785.15			
(16)	CAP - UPC (including GAP)	111.10	105.34	109.61	137.81	202.92	342.21	440.34	436.90	384.68	269.44	185.34	135.16	\$2,860.85			
	(1) - Includes Delivery + CCRA + GAP																
	(2) - CCRC + CCRA				\$1,73480	incl \$1,2992 Del B4 CCRC+ \$0,2362 CCRC + \$0,0441 GAP + \$0,1553 CCRA											

Line No.	ACTUAL RESULTS - YEAR END ADJ FOR CYCLE	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual	Average
		(1)	Actual Customers	18,905	19,386	19,525	19,709	19,883	19,962	20,005	20,047	20,062	20,074	20,052	20,048
(2)	Actual Sales - DT	856,910	761,554	922,270	1,038,524	2,567,808	4,178,065	6,587,587	6,120,285	5,335,900	4,463,435	2,875,364	1,161,840	36,869,542	
(3)	Actual UPC - DT	45.33	39.28	47.24	52.69	129.15	209.30	329.30	305.30	265.97	222.35	143.40	57.95	1,847.25	
(4)															
(5)	NON-GAS MARGIN cap	\$2,100,382	\$2,042,203	\$2,140,112	\$2,716,189	\$4,034,597	\$6,831,258	\$8,808,904	\$8,758,552	\$7,717,399	\$5,408,818	\$3,716,361	\$2,709,632	\$56,984,406	\$5,698,441
(6)	Authorized Basic Charge	\$43.00	\$43.00	\$43.00	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	\$47.50	10% Cap =
(7)	Authorized Delivery Charge per DT ⁽¹⁾	\$1,7444	\$1,7444	\$1,7444	\$1,7348	\$1,7348	\$1,7348	\$1,7348	\$1,7348	\$1,7348	\$1,7348	\$1,7348	\$1,7348	\$1,7348	\$0.1735
(8)	Authorized CIP Charge per DT	\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	Per DT
(9)	Authorized GAP Charge per DT	\$0.0462	\$0.0462	\$0.0462	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	
(10)	Net Authorized Delivery Charge per DT	\$1,3501	\$1,3501	\$1,3501	\$1,2992	\$1,2992	\$1,2992	\$1,2992	\$1,2992	\$1,2992	\$1,2992	\$1,2992	\$1,2992	\$1,2992	
(11)	Actual Basic Charge Revenues	\$812,915	\$833,598	\$839,575	\$936,178	\$944,443	\$948,195	\$950,238	\$952,233	\$952,945	\$953,515	\$952,470	\$952,280	\$11,028,583	
(12)	Actual Delivery Charge Revenues	\$1,156,915	\$1,028,174	\$1,245,157	\$1,349,250	\$3,336,096	\$5,428,142	\$8,558,593	\$7,951,474	\$6,932,401	\$5,798,894	\$3,735,673	\$1,509,463	\$48,030,232	
(13)	Actual Non-Gas Revenues	\$1,969,830	\$1,861,772	\$2,084,732	\$2,285,427	\$4,280,539	\$6,376,337	\$9,508,831	\$8,903,706	\$7,885,346	\$6,752,409	\$4,688,143	\$2,461,743	\$59,058,815	
(14)	Allowed Net Non-Gas Revenues	\$2,057,809	\$2,002,186	\$2,096,985	\$2,657,759	\$3,933,056	\$6,638,163	\$8,550,937	\$8,502,334	\$7,495,364	\$5,262,600	\$3,625,602	\$2,651,949	\$55,474,745	
(15)	Under / (Over) Collection - Accrual	\$87,980	\$140,414	\$12,253	\$372,331	(\$347,483)	\$261,827	(\$957,893)	(\$401,373)	(\$389,982)	(\$1,489,809)	(\$1,062,541)	\$190,207	(\$3,584,070)	(\$0,1296)

RD RIDER: Decoupling Model
Docket G-008/M-18-____
Small Volume Dual Fuel - A - Less than 120,000 Therms per Year
Sales Service + Transport

Line No.	2015 Rate Case	2017 - Rate Case - ALT FC TEN YEAR NORMAL										Annual	Average			
		Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-16	Feb-16	Mar-16	Apr-16			May-16	Jun-16	
	SVDF-A - TEST YEAR															
	SALES (S) SERVICE															
(1)	Authorized Customers	1,868	1,864	1,813	961	744	975	779	892	896	858	1,106	1,106	13,861	1,155	
(2)	Authorized Sales - DT	161,200	163,350	210,060	312,325	379,886	690,593	575,374	624,293	462,915	279,491	188,190	95,411	4,143,089		
(3)	UPC - DT	86.30	87.63	115.88	325.00	510.60	708.30	738.70	700.00	516.60	325.70	170.20	86.30	4,371.21		
(4)	Authorized Non-Gas RevReq															
(5)	Authorized Basic Charge	\$50.00	\$50.00	\$50.00	\$50.00	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	
(6)	Authorized Delivery Charge per DT ⁽¹⁾	\$1,347.60	\$1,347.60	\$1,347.60	\$1,347.60	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	
(7)	Authorized CIP Charge per DT ⁽²⁾	\$0.29490	\$0.29490	\$0.29490	\$0.29490	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	
(8)	Authorized GAP Charge per DT	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
(9)	Net Authorized Delivery Charge per DT	\$1,052.70	\$1,052.70	\$1,052.70	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	
(10)	Authorized Basic Charge Revenues	\$93,400	\$93,200	\$90,633	\$53,336	\$41,292	\$54,113	\$43,229	\$49,498	\$49,732	\$47,626	\$61,366	\$61,360	\$738,784		
(11)	Net Authorized Delivery Charge Revenues	\$169,695	\$171,959	\$221,130	\$314,168	\$382,128	\$694,667	\$578,769	\$627,977	\$465,646	\$281,140	\$189,300	\$95,974	\$4,192,553		
(12)	Net Authorized Non-Gas Revenues	\$263,095	\$265,159	\$311,763	\$367,503	\$423,420	\$748,779	\$621,998	\$677,474	\$515,378	\$328,766	\$250,667	\$157,334	\$4,931,337		
(13)	TRANSPORT (T) SERVICE															
(14)	Authorized Customers	69	73	124	229	440	209	403	288	284	321	72	72	2,585	215	
(15)	Authorized Sales - DT	11,700	14,300	35,800	74,425	224,664	148,035	297,769	201,707	146,673	104,509	12,306	6,250	1,278,138		
(16)	UPC - DT	169.57	195.89	287.94	325.00	510.60	708.30	738.70	700.00	516.60	325.70	170.20	86.30	4,734.80		
(17)	Authorized Non-Gas RevReq															
(18)	Authorized Basic Charge	\$50.00	\$50.00	\$50.00	\$50.00	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	
(19)	Authorized Delivery Charge per DT ⁽¹⁾	\$1,347.60	\$1,347.60	\$1,347.60	\$1,347.60	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	\$1,397.40	
(20)	Authorized CIP Charge per DT ⁽²⁾	\$0.29490	\$0.29490	\$0.29490	\$0.29490	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	
(21)	Authorized GAP Charge per DT	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
(22)	Net Authorized Delivery Charge per DT	\$1,052.70	\$1,052.70	\$1,052.70	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	\$1,005.90	
(23)	Authorized Basic Charge Revenues	\$3,450	\$3,650	\$6,217	\$12,710	\$24,420	\$11,600	\$22,372	\$15,992	\$15,758	\$17,809	\$4,013	\$4,019	\$142,008		
(24)	Net Authorized Delivery Charge Revenues	\$12,317	\$15,054	\$37,687	\$74,864	\$225,990	\$148,908	\$299,526	\$202,897	\$147,539	\$105,126	\$12,378	\$6,287	\$1,288,571		
(25)	Net Authorized Non-Gas Revenues	\$15,767	\$18,704	\$43,903	\$87,574	\$250,410	\$160,508	\$321,898	\$218,889	\$163,296	\$122,935	\$16,391	\$10,306	\$1,430,579		
(26)	Combined S&T - Customers	1,937	1,937	1,937	1,190	1,184	1,184	1,182	1,180	1,180	1,179	1,178	1,178	16,446	1,371	
(27)	Combined S&T -Sales - DT	172,900	177,650	245,860	386,750	604,550	838,627	873,143	826,000	609,588	384,000	200,496	101,661	5,421,226		
(28)	Combined S&T UPC - DT	89.26	91.71	126.93	325.00	510.60	708.30	738.70	700.00	516.60	325.70	170.20	86.30	4,389.30		
(29)	Total S + T Auth. Non-Gas Revenue	\$278,862	\$283,862	\$355,667	\$455,077	\$673,829	\$909,287	\$943,896	\$896,363	\$678,675	\$451,700	\$267,058	\$167,640	\$6,361,916		
(30)	Allowed Net RPC	\$143.97	\$146.55	\$183.62	\$382.42	\$569.11	\$767.98	\$798.56	\$759.63	\$575.15	\$383.12	\$226.70	\$142.31	\$5,079.12		
(31)	CAP - UPC (including GAP)	143.97	146.55	183.62	382.42	569.11	767.98	798.56	759.63	575.15	383.12	226.70	142.31	\$5,079.11		
	(1) - Includes Delivery + CCRA															
	(2) - CCRC + CCRA															
					\$1,397.40	incl \$1,005.9 Del B4 CCRC-	\$0.2362 CCRC +	\$0.1553 CCRA								

RD RIDER: Decoupling Model
Docket G-008/M-18-_____
Small Volume Dual Fuel - A - Less than 120,000 Therms per Year
Sales Service + Transport

ACTUAL RESULTS		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual	Average
SALES (S) Service															
(32) Actual Customers		1,388	1,311	1,252	1,129	1,070	1,067	1,060	1,061	1,079	1,075	1,090	1,086	13,668	1,139
(33) Actual Sales - DT		140,470	133,707	136,547	412,760	746,156	789,973	884,931	775,004	629,054	504,022	129,619	97,514	5,379,757	
(34) Actual UPC - DT		101.20	101.99	109.06	365.60	697.34	740.37	834.84	730.45	583.00	468.86	118.92	89.79	4,941.41	
(35)															
(36) Authorized Basic Charge		\$50.00	\$50.00	\$50.00	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50		
(37) Authorized Delivery Charge per DT ⁽¹⁾		\$1.3476	\$1.3476	\$1.3476	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974		
(38) Authorized CIP Charge per DT		\$0.2949	\$0.2949	\$0.2949	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915		
(39) Authorized GAP Charge per DT		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
(40) Net Authorized Delivery Charge per DT		\$1.05270	\$1.05270	\$1.05270	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590		
(41) Actual Basic Charge Revenues		\$69,400	\$65,550	\$62,600	\$62,660	\$59,385	\$59,219	\$58,830	\$58,886	\$59,885	\$59,663	\$60,495	\$60,273	\$736,844	
(42) Actual Delivery Charge Revenues		\$147,873	\$140,753	\$143,743	\$415,195	\$750,559	\$794,634	\$890,152	\$779,577	\$632,765	\$506,995	\$130,384	\$98,089	\$5,430,720	
(43) Actual Non-Gas Revenues		\$217,273	\$206,303	\$206,343	\$477,855	\$809,944	\$853,852	\$948,982	\$838,462	\$692,650	\$566,658	\$190,879	\$158,362	\$6,167,563	
TRANSPORT (T) Service															
(44) Actual Customers		52	37	40	51	89	80	86	83	53	53	38	36	698	58
(45) Actual Sales - DT		11,307	11,519	9,772	18,089	34,839	84,268	76,802	78,913	54,801	33,689	13,643	12,615	440,256	
(46) Actual UPC - DT		217.44	311.32	244.31	354.68	391.45	1053.35	893.05	950.75	1033.99	635.63	359.02	350.41	6,795	
(47)															
(48)															
(49) Authorized Basic Charge		\$50.00	\$50.00	\$50.00	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50	\$55.50		
(50) Authorized Delivery Charge per DT ⁽¹⁾		\$1.3476	\$1.3476	\$1.3476	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974	\$1.3974		
(51) Authorized CIP Charge per DT		\$0.2949	\$0.2949	\$0.2949	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915		
(52) Authorized GAP Charge per DT		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
(53) Net Authorized Delivery Charge per DT		\$1.05270	\$1.05270	\$1.05270	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590	\$1.00590		
(54) Actual Basic Charge Revenues		\$2,600	\$1,850	\$2,000	\$2,831	\$4,940	\$4,440	\$4,773	\$4,607	\$2,942	\$2,942	\$2,109	\$1,998	\$38,030	
(55) Actual Delivery Charge Revenues		\$11,903	\$12,126	\$10,287	\$18,195	\$35,044	\$84,765	\$77,256	\$79,378	\$55,125	\$33,867	\$13,723	\$12,689	\$444,379	
(56) Actual Non-Gas Revenues		\$14,503	\$13,976	\$12,287	\$21,026	\$39,984	\$89,205	\$82,029	\$83,985	\$58,066	\$36,829	\$15,832	\$14,687	\$482,408	
SVDF-A: S + T Combined Actual															
(57) NON-GAS MARGIN cap		\$278,870	\$283,867	\$355,672	\$451,256	\$659,598	\$880,873	\$915,150	\$869,017	\$651,070	\$432,159	\$255,718	\$159,672	\$6,192,921	\$619,292 MARGIN CAP
(58) Combined S&T - Customers		1,440	1,348	1,292	1,180	1,159	1,147	1,146	1,144	1,132	1,128	1,128	1,122	1,197	0.1142 Per DT
(59) Combined S&T -Sales - DT		151,777	145,226	146,319	430,849	780,995	874,241	961,734	853,917	683,855	537,710	143,262	110,128	5,820,013	
(60) Combined S&T UPC - DT		105.40	107.73	113.25	365.13	673.85	762.20	839.21	746.43	604.11	476.69	127.01	98.15	5,019.17	
(61)															
(62) SVDF-A: S + T Auth. Non-Gas Revenue															
(63) Actual Non-Gas Revenues		\$231,776	\$220,279	\$218,630	\$498,881	\$849,928	\$943,057	\$1,031,011	\$922,447	\$750,716	\$603,487	\$206,711	\$173,049	\$6,649,971	
(64) Allowed Net Non-Gas Revenues		\$278,870	\$283,867	\$355,672	\$451,256	\$659,598	\$880,873	\$915,150	\$869,017	\$651,070	\$432,159	\$255,718	\$159,672	\$6,192,921	
(65) Under / (Over) Collection - Accrual		\$47,094	\$63,588	\$137,042	(\$47,625)	(\$190,329)	(\$62,184)	(\$115,861)	(\$53,430)	(\$99,646)	(\$171,327)	\$49,006	(\$13,377)	(\$457,050)	(\$0.0843) Factor w/o PP

RD RIDER: Decoupling Model

Docket G-008/M-18-_____

Small Volume Dual Fuel - B - Greater than 120,000 Therms per Year
Sales Service + Transport

Line No.	2015 Rate Case	2017 - Rate Case - ALT FC TEN YEAR NORMAL											Annual	Average	
		Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-16	Feb-16	Mar-16	Apr-16	May-16			Jun-16
	SVDF-B - TEST YEAR														
	SALES (S) SERVICE														
(1)	Authorized Customers	341	342	327	165	113	178	135	164	144	152	232	224	2,517	210
(2)	Authorized Sales - DT	130,699	134,032	145,384	197,307	223,435	453,971	361,875	435,134	279,795	209,933	200,837	126,010	2,898,410	
(3)	UPC - DT	383.66	391.53	444.60	1,195.80	1,977.30	2,550.40	2,678.20	2,654.50	1,942.30	1,382.60	866.30	561.30	17,028.49	
(4)	Authorized Non-Gas RevReq														
(5)	Authorized Basic Charge	\$80.00	\$80.00	\$80.00	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50
(6)	Authorized Delivery Charge per DT ⁽¹⁾	\$1.30060	\$1.30060	\$1.30060	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500
(7)	Authorized CIP Charge per DT ⁽²⁾	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150
(8)	Authorized GAP Charge per DT	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
(9)	Net Authorized Delivery Charge per DT	\$0.95250	\$0.95250	\$0.95250	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350
(10)	Authorized Basic Charge Revenues	\$27,253	\$27,387	\$26,160	\$14,603	\$10,001	\$15,753	\$11,958	\$14,507	\$12,749	\$13,438	\$20,517	\$19,868	\$214,193	
(11)	Net Authorized Delivery Charge Revenues	\$124,491	\$127,666	\$138,478	\$180,240	\$204,108	\$414,703	\$330,573	\$397,494	\$255,592	\$191,774	\$183,465	\$115,110	\$2,663,692	
(12)	Net Authorized Non-Gas Revenues	\$151,744	\$155,052	\$164,638	\$194,842	\$214,108	\$430,456	\$342,531	\$412,002	\$268,341	\$205,211	\$203,982	\$134,978	\$2,877,885	
(13)	TRANSPORT (T) SERVICE														
(14)	Authorized Customers	44	43	58	117	167	102	144	115	135	126	45	53	1,149	96
(15)	Authorized Sales - DT	38,500	40,100	51,300	139,909	330,209	260,141	385,343	305,472	262,107	174,430	39,128	29,470	2,056,109	
(16)	UPC - DT	868.42	939.84	884.48	1,195.80	1,977.30	2,550.40	2,678.20	2,654.50	1,942.30	1,382.60	866.30	561.30	18,501.44	
(17)	Authorized Non-Gas RevReq														
(18)	Authorized Basic Charge	\$80.00	\$80.00	\$80.00	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50
(19)	Authorized Delivery Charge per DT ⁽¹⁾	\$1.30060	\$1.30060	\$1.30060	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500	\$1.30500
(20)	Authorized CIP Charge per DT ⁽²⁾	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150
(21)	Authorized GAP Charge per DT	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
(22)	Net Authorized Delivery Charge per DT	\$0.95250	\$0.95250	\$0.95250	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350
(23)	Authorized Basic Charge Revenues	\$3,547	\$3,413	\$4,640	\$10,355	\$14,780	\$9,027	\$12,733	\$10,184	\$11,943	\$11,165	\$3,997	\$4,647	\$100,431	
(24)	Net Authorized Delivery Charge Revenues	\$36,671	\$38,195	\$48,863	\$127,807	\$301,646	\$237,639	\$352,011	\$279,049	\$239,435	\$159,342	\$35,743	\$26,921	\$1,883,322	
(25)	Net Authorized Non-Gas Revenues	\$40,218	\$41,609	\$53,503	\$138,161	\$316,425	\$246,666	\$364,744	\$289,233	\$251,378	\$170,507	\$39,741	\$31,567	\$1,983,752	
(26)	Combined S&T - Customers	385	385	385	282	280	280	279	279	279	278	277	277	3,666	306
(27)	Combined S&T -Sales - DT	169,199	174,132	196,684	337,216	553,644	714,112	747,218	740,606	541,902	384,363	239,965	155,480	4,954,519	
(28)	Combined S&T UPC - DT	439.48	452.29	510.87	1,195.80	1,977.30	2,550.40	2,678.20	2,654.50	1,942.30	1,382.60	866.30	561.30	17,211.34	
(29)	Total S + T Auth. Non-Gas Revenue	\$191,962	\$196,661	\$218,141	\$333,003	\$530,534	\$677,121	\$707,275	\$701,235	\$519,719	\$375,718	\$243,723	\$166,546	\$4,861,638	
(30)	Allowed Net RPC														
(31)	CAP - UPC (including GAP)	\$498.60	\$510.81	\$566.60	\$1,180.86	\$1,894.76	\$2,418.29	\$2,535.04	\$2,513.39	\$1,862.79	\$1,351.51	\$879.87	\$601.25	\$16,813.77	
	(1) - Includes Delivery + CCRA	498.60	510.81	566.60											
	(2) - CCRC + CCRA														
					\$1.30500	incl \$0.9135 Del B4 CCRC+	\$0.2362 CCRC + \$0.1553 CCRA								

RD RIDER: Decoupling Model

Docket G-008/M-18-____

Small Volume Dual Fuel - B - Greater than 120,000 Therms per Year
Sales Service + Transport

ACTUAL RESULTS		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual	Average
SALES (S) Service															
(32)	Actual Customers	264	260	254	248	223	227	230	230	239	239	248	247	2,909	242
(33)	Actual Sales - DT	126,687	124,635	129,935	280,089	480,348	577,895	643,324	592,783	470,183	397,630	148,451	118,052	4,090,012	
(34)	Actual UPC - DT	479.87	479.37	511.56	1,129.39	2,154.03	2,545.79	2,797.06	2,577.32	1,967.29	1,663.72	598.59	477.94	17,381.94	
(35)															
(36)	Authorized Basic Charge	\$80.00	\$80.00	\$80.00	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50
(37)	Authorized Delivery Charge per DT ⁽¹⁾	\$1,3006	\$1,3006	\$1,3006	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050
(38)	Authorized CIP Charge per DT	\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915
(39)	Authorized GAP Charge per DT	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
(40)	Net Authorized Delivery Charge per DT	\$0.95250	\$0.95250	\$0.95250	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350
(41)	Actual Basic Charge Revenues	\$21,120	\$20,800	\$20,320	\$21,948	\$19,736	\$20,090	\$20,355	\$20,355	\$21,152	\$21,152	\$21,948	\$21,860	\$250,834	
(42)	Actual Delivery Charge Revenues	\$120,669	\$118,715	\$123,763	\$255,861	\$438,798	\$527,907	\$587,677	\$541,508	\$429,512	\$363,235	\$135,610	\$107,840	\$3,751,095	
(43)	Actual Non-Gas Revenues	\$141,789	\$139,515	\$144,083	\$277,809	\$458,534	\$547,996	\$608,032	\$561,863	\$450,664	\$384,386	\$157,558	\$129,700	\$4,001,929	
TRANSPORT (T) Service															
(44)	Actual Customers	37	39	36	36	58	54	53	54	43	43	33	33	519	43
(45)	Actual Sales - DT	38,639	58,778	48,994	57,554	77,364	146,860	149,842	132,500	112,801	87,430	45,828	38,181	994,771	
(46)	Actual UPC - DT	1044.30	1507.14	1360.95	1598.73	1333.86	2719.63	2827.20	2453.70	2623.29	2033.25	1388.72	1156.99	22,048	
(47)															
(48)	Authorized Basic Charge	\$80.00	\$80.00	\$80.00	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50	\$88.50
(50)	Authorized Delivery Charge per DT ⁽¹⁾	\$1,3006	\$1,3006	\$1,3006	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050	\$1,3050
(51)	Authorized CIP Charge per DT	\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915
(52)	Authorized GAP Charge per DT	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
(53)	Net Authorized Delivery Charge per DT	\$0.95250	\$0.95250	\$0.95250	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350	\$0.91350
(54)	Actual Basic Charge Revenues	\$2,960	\$3,120	\$2,880	\$3,186	\$5,133	\$4,779	\$4,691	\$4,779	\$3,806	\$3,806	\$2,921	\$2,921	\$44,980	
(55)	Actual Delivery Charge Revenues	\$36,804	\$55,986	\$46,667	\$52,576	\$70,672	\$134,157	\$136,880	\$121,039	\$103,044	\$79,867	\$41,864	\$34,878	\$914,433	
(56)	Actual Non-Gas Revenues	\$39,764	\$59,106	\$49,547	\$55,762	\$75,805	\$138,936	\$141,571	\$125,818	\$106,849	\$83,672	\$44,784	\$37,799	\$959,412	
SVDF-B: S + T Combined Actual															
(57)	NON-GAS MARGIN cap	\$191,961	\$196,662	\$218,141	\$335,364	\$532,428	\$679,539	\$717,416	\$713,803	\$525,307	\$381,126	\$247,243	\$168,350	\$4,907,340	\$490,734
(58)	Combined S&T - Customers	301	299	290	284	281	281	283	284	282	282	281	280	286	0.0990
(59)	Combined S&T - Sales - DT	165,326	183,414	178,929	337,643	557,712	724,755	793,166	725,283	582,984	485,060	194,279	156,232	5,084,783	Per DT
(60)	Combined S&T UPC - DT	549.25	613.42	617.00	1188.88	1984.74	2579.20	2802.71	2553.81	2067.32	1720.07	691.38	557.97	17,925.77	
(61)															
(62)	SVDF-B: S + T Auth. Non-Gas Revenue														
(63)	Actual Non-Gas Revenues	\$181,553	\$198,622	\$193,630	\$333,571	\$534,339	\$686,932	\$749,603	\$687,680	\$557,513	\$468,059	\$202,342	\$167,498	\$4,961,341	
(64)	Allowed Net Non-Gas Revenues	\$191,961	\$196,662	\$218,141	\$335,364	\$532,428	\$679,539	\$717,416	\$713,803	\$525,307	\$381,126	\$247,243	\$168,350	\$4,907,340	
(65)	Under / (Over) Collection - Accrual	\$10,408	(\$1,960)	\$24,511	\$1,793	(\$1,911)	(\$7,393)	(\$32,186)	\$26,123	(\$32,206)	(\$86,933)	\$44,902	\$852	(\$54,001)	(\$0.0109) Factor w/o PP

RD RIDER: Decoupling Model
Docket G-008/M-18-_____
Large Volume Dual Fuel - Peak Day Greater Than 2,000 Therms
Sales Service + Transport

Line No.	LVDF- STANDARD - TEST YEAR SALES (\$) SERVICE	2015 Rate Case			2017 - Rate Case - ALT FC TEN YEAR NORMAL								Annual	Average	
		Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-16	Feb-16	Mar-16	Apr-16	May-16			Jun-16
(1)	Authorized Customers	69	69	69	97	97	97	97	97	97	97	97	97	1,080	90
(2)	Authorized Sales - DT	207,280	227,860	230,948	476,325	450,547	424,144	421,536	467,437	400,938	343,347	335,564	390,464	4,376,390	
(3)	UPC - DT	3,004.05	3,302.32	3,347.07	4,910.57	4,644.82	4,372.62	4,345.73	4,818.94	4,133.39	3,539.66	3,459.43	4,025.40	47,904.00	
(4)	Authorized Non-Gas RevReq														
(5)	Authorized Basic Charge	\$800.00	\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	
(6)	Authorized Delivery Charge per DT ⁽¹⁾	\$0.88100	\$0.88100	\$0.88100	\$0.88100	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	
(7)	Authorized CIP Charge per DT ⁽²⁾	\$0.34810	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	
(8)	Authorized GAP Charge per DT	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
(9)	Net Authorized Delivery Charge per DT	\$0.53290	\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	
(10)	Authorized Basic Charge Revenues	\$55,200	\$55,200	\$55,200	\$87,300	\$87,300	\$87,300	\$87,300	\$87,300	\$87,300	\$87,300	\$87,300	\$87,300	\$87,300	\$951,300
(11)	Net Authorized Delivery Charge Revenues	\$110,459	\$121,427	\$123,072	\$223,206	\$211,126	\$198,754	\$197,532	\$219,041	\$187,880	\$160,892	\$157,245	\$182,971	\$2,093,606	
(12)	Net Authorized Non-Gas Revenues	\$165,659	\$176,627	\$178,272	\$310,506	\$298,426	\$286,054	\$284,832	\$306,341	\$275,180	\$248,192	\$244,545	\$270,271	\$3,044,906	
(13)	TRANSPORT (T) Service														
(14)	Authorized Customers	137	137	137	88	88	88	88	88	88	88	88	88	1,203	100
(15)	Authorized Sales - DT	1,104,028	829,105	765,746	738,348	880,052	1,009,613	1,012,762	1,115,239	1,375,417	760,549	605,356	599,022	10,795,237	
(16)	UPC - DT	8,058.60	6,051.86	5,589.39	8,390.32	10,000.59	11,472.88	11,508.66	12,673.17	15,629.74	8,642.60	6,879.05	6,807.07	111,703.93	
(17)	Authorized Non-Gas RevReq														
(18)	Authorized Basic Charge	\$800.00	\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	
(19)	Authorized Delivery Charge per DT ⁽¹⁾	\$0.88100	\$0.88100	\$0.88100	\$0.88100	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	\$0.86010	
(20)	Authorized CIP Charge per DT ⁽²⁾	\$0.34810	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	
(21)	Authorized GAP Charge per DT	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
(22)	Net Authorized Delivery Charge per DT	\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	
(23)	Authorized Basic Charge Revenues	\$109,600	\$109,600	\$109,600	\$79,200	\$79,200	\$79,200	\$79,200	\$79,200	\$79,200	\$79,200	\$79,200	\$79,200	\$79,200	\$1,041,600
(24)	Net Authorized Delivery Charge Revenues	\$588,337	\$441,830	\$408,066	\$345,990	\$412,393	\$473,105	\$474,580	\$522,601	\$644,521	\$356,393	\$283,670	\$280,702	\$5,232,186	
(25)	Net Authorized Non-Gas Revenues	\$697,937	\$551,430	\$517,666	\$425,190	\$491,593	\$552,305	\$553,780	\$601,801	\$723,721	\$435,593	\$362,870	\$359,902	\$6,273,786	
(26)	Combined S&T - Customers	206	206	206	185	185	185	185	185	185	185	185	185	2,283	190
(27)	Combined S&T -Sales - DT	1,311,308	1,056,965	996,694	1,214,673	1,330,600	1,433,757	1,434,298	1,582,676	1,776,356	1,103,896	940,921	989,486	15,171,628	
(28)	Combined S&T UPC - DT	6,365.57	5,130.90	4,838.32	6,565.80	7,192.43	7,750.04	7,752.96	8,555.00	9,601.92	5,967.00	5,086.06	5,348.57	80,154.58	
(29)	Total S + T Auth. Non-Gas Revenue	\$863,596	\$728,057	\$695,938	\$735,696	\$790,019	\$838,359	\$838,612	\$908,142	\$998,900	\$683,785	\$607,415	\$630,173	\$9,318,692	
(30)	Allowed Net RPC														
(31)	CAP - UPC (including GAP)	4,192.21	3,534.26	3,378.34	3,976.73	4,270.37	4,531.67	4,533.04	4,908.87	5,399.46	3,696.14	3,283.33	3,406.34	\$49,110.76	
	(1) - Includes Delivery + CCRA														
	(2) - CCRC + CCRA				\$0.86010	incl \$0.4686	Del B4 CCRC+	\$0.2362	CCRC+	\$0.1553	CCRA				

RD RIDER: Decoupling Model
Docket G-008/M-18-_____
Large Volume Dual Fuel - Peak Day Greater Than 2,000 Therms
Sales Service + Transport

ACTUAL RESULTS		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual	Average
SALES (S) Service															
(32) Actual Customers		110	82	109	97	104	94	96	98	68	66	98	103	1,125	94
(33) Actual Sales - DT		400,784	153,161	186,968	549,192	555,260	569,771	625,437	607,702	517,078	301,551	381,891	341,592	5,190,386	
(34) Actual UPC - DT		3,643.49	1,867.82	1,715.30	5,661.77	5,339.04	6,061.40	6,514.97	6,201.04	7,604.09	4,568.95	3,896.84	3,316.43	56,391.14	
(35)															
(36) Authorized Basic Charge		\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	
(37) Authorized Delivery Charge per DT ⁽¹⁾		\$0.8810	\$0.8810	\$0.8810	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	
(38) Authorized CIP Charge per DT		\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	
(39) Authorized GAP Charge per DT		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
(40) Net Authorized Delivery Charge per DT		\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	
(41) Actual Basic Charge Revenues		\$88,000	\$65,600	\$87,200	\$87,300	\$93,600	\$84,600	\$86,400	\$88,200	\$61,200	\$59,400	\$88,200	\$92,700	\$982,400	
(42) Actual Delivery Charge Revenues		\$213,578	\$81,620	\$99,635	\$257,351	\$260,195	\$266,995	\$293,080	\$284,769	\$242,303	\$141,307	\$178,954	\$160,070	\$2,479,856	
(43) Actual Non-Gas Revenues		\$301,578	\$147,220	\$186,835	\$344,651	\$353,795	\$351,595	\$379,480	\$372,969	\$303,503	\$200,707	\$267,154	\$252,770	\$3,462,256	
TRANSPORT (T) Service															
(44) Actual Customers		84	114	85	90	103	88	87	86	115	115	83	78	1,128	94
(45) Actual Sales - DT		648,264	975,200	933,721	812,696	978,769	1,061,660	1,179,370	1,113,559	995,184	1,095,126	555,818	627,052	10,976,419	
(46) Actual UPC - DT		7717.43	8554.38	10984.96	9029.96	9502.61	12064.32	13555.97	12948.36	8653.77	9522.83	6696.60	8039.13	117,270	
(47)															
(48)															
(49) Authorized Basic Charge		\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	
(50) Authorized Delivery Charge per DT ⁽¹⁾		\$0.8810	\$0.8810	\$0.8810	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	\$0.8601	
(51) Authorized CIP Charge per DT		\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	
(52) Authorized GAP Charge per DT		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
(53) Net Authorized Delivery Charge per DT		\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	
(54) Actual Basic Charge Revenues		\$67,200	\$91,200	\$68,000	\$81,000	\$92,700	\$79,200	\$78,300	\$77,400	\$103,500	\$103,500	\$74,700	\$70,200	\$986,900	
(55) Actual Delivery Charge Revenues		\$345,460	\$519,684	\$497,580	\$380,830	\$458,651	\$497,494	\$552,653	\$521,814	\$466,343	\$513,176	\$260,456	\$293,836	\$5,307,977	
(56) Actual Non-Gas Revenues		\$412,660	\$610,884	\$565,580	\$461,830	\$551,351	\$576,694	\$630,953	\$599,214	\$569,843	\$616,676	\$335,156	\$364,036	\$6,294,877	
LVDF- Standard: S + T Combined															
Actual															
(57) NON-GAS MARGIN cap		\$863,595	\$728,058	\$695,938	\$743,649	\$883,967	\$824,764	\$829,546	\$903,232	\$988,101	\$669,001	\$594,283	\$616,548	\$9,340,681	\$934,068 MARGIN CAP
(58) Combined S&T - Customers		194	196	194	187	207	182	183	184	183	181	181	181	188	0.0616 Per DT
(59) Combined S&T - Sales - DT		1,049,048	1,128,361	1,120,689	1,361,888	1,534,030	1,631,432	1,804,807	1,721,261	1,512,262	1,396,677	937,708	968,644	16,166,805	
(60) Combined S&T UPC - DT		5407.47	5756.94	5776.75	7282.82	7410.77	8963.91	9862.33	9354.68	8263.72	7716.44	5180.71	5351.62	86,328.17	
(61)															
LVDF-Standard: S + T Auth. Non-Gas Revenue															
(62) Actual Non-Gas Revenues		\$714,238	\$758,103	\$752,415	\$806,481	\$905,146	\$928,289	\$1,010,432	\$972,183	\$873,346	\$817,383	\$602,310	\$616,806	\$9,757,133	
(64) Allowed Net Non-Gas Revenues		\$863,595	\$728,058	\$695,938	\$743,649	\$883,967	\$824,764	\$829,546	\$903,232	\$988,101	\$669,001	\$594,283	\$616,548	\$9,340,681	
(65) Under / (Over) Collection - Accrual		\$149,357	(\$30,046)	(\$56,477)	(\$62,832)	(\$21,180)	(\$103,525)	(\$180,886)	(\$68,951)	\$114,755	(\$148,381)	(\$8,027)	(\$259)	(\$416,452)	(\$0.0274) Factor w/o PP

RD RIDER: Decoupling Model
Docket G-008/M-18-_____
Large Volume Firm - Peak Day Greater Than 2,000 Therms
Sales Service + Transport

Line No.	LG GEN FIRM- STANDARD - TEST YEAR	2015 Rate Case			2017 - Rate Case - ALT FC TEN YEAR NORMAL								Annual	Average	
		Jul-16	Aug-16	Sep-16	Oct-17	Nov-17	Dec-17	Jan-16	Feb-16	Mar-16	Apr-16	May-16			Jun-16
	SALES (S) SERVICE														
(1)	Authorized Customers	1	1	1	8	8	8	8	8	8	8	8	8	75	6
(2)	Authorized Sales - DT	3,107	3,183	3,228	23,878	33,879	46,927	52,926	46,775	37,574	28,967	21,698	18,323	320,465	
(3)	UPC - DT	3,106.90	3,182.50	3,228.30	2,984.80	4,234.86	5,865.85	6,615.80	5,846.89	4,696.69	3,620.83	2,712.30	2,290.35	48,386.07	
(4)	Authorized Non-Gas RevReq														
(5)	Authorized Basic Charge	\$800.00	\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00		
(6)	Authorized Delivery Charge per DT ⁽¹⁾	\$0.92720	\$0.92720	\$0.92720	\$0.92720	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420		
(7)	Authorized CIP Charge per DT ⁽²⁾	\$0.34810	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150		
(8)	Authorized GAP Charge per DT	\$0.04620	\$0.04620	\$0.04620	\$0.04620	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410		
(9)	Net Authorized Delivery Charge per DT	\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860		
(10)	Authorized Basic Charge Revenues	\$800	\$800	\$800	\$7,200	\$7,200	\$7,200	\$7,200	\$7,200	\$7,200	\$7,200	\$7,200	\$7,200	\$67,200	
(11)	Net Authorized Delivery Charge Revenues	\$1,656	\$1,696	\$1,720	\$11,189	\$15,876	\$21,990	\$24,801	\$21,919	\$17,607	\$13,574	\$10,168	\$8,586	\$150,782	
(12)	Net Authorized Non-Gas Revenues	\$2,456	\$2,496	\$2,520	\$18,389	\$23,076	\$29,190	\$32,001	\$29,119	\$24,807	\$20,774	\$17,368	\$15,786	\$217,982	
(13)	TRANSPORT (T) Service														
(14)	Authorized Customers	0	0	0	28	28	28	28	28	28	28	28	28	252	21
(15)	Authorized Sales - DT	0	0	0	123,127	145,683	192,581	208,043	188,634	159,433	129,011	104,137	94,717	1,345,365	
(16)	UPC - DT	#DIV/0!	#DIV/0!	#DIV/0!	4,397.40	5,202.95	6,877.90	7,430.10	6,736.91	5,694.02	4,607.54	3,719.19	3,382.75	#DIV/0!	
(17)	Authorized Non-Gas RevReq														
(18)	Authorized Basic Charge	\$800.00	\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00		
(19)	Authorized Delivery Charge per DT ⁽¹⁾	\$0.92720	\$0.92720	\$0.92720	\$0.92720	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420	\$0.90420		
(20)	Authorized CIP Charge per DT ⁽²⁾	\$0.34810	\$0.34810	\$0.34810	\$0.34810	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150	\$0.39150		
(21)	Authorized GAP Charge per DT	\$0.04620	\$0.04620	\$0.04620	\$0.04620	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410	\$0.04410		
(22)	Net Authorized Delivery Charge per DT	\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860		
(23)	Authorized Basic Charge Revenues	\$0	\$0	\$0	\$25,200	\$25,200	\$25,200	\$25,200	\$25,200	\$25,200	\$25,200	\$25,200	\$25,200	\$226,800	
(24)	Net Authorized Delivery Charge Revenues	\$0	\$0	\$0	\$57,697	\$68,267	\$90,244	\$97,489	\$88,394	\$74,710	\$60,455	\$48,799	\$44,384	\$630,438	
(25)	Net Authorized Non-Gas Revenues	\$0	\$0	\$0	\$82,897	\$93,467	\$115,444	\$122,689	\$113,594	\$99,910	\$85,655	\$73,999	\$69,584	\$857,238	
(26)	Combined S&T - Customers	1	1	1	36	36	36	36	36	36	36	36	36	327	27
(27)	Combined S&T - Sales - DT	3,107	3,183	3,228	147,006	179,562	239,508	260,969	235,409	197,006	157,978	125,836	113,040	1,665,830	
(28)	Combined S&T UPC - DT	3,106.90	3,182.50	3,228.30	4,083.49	4,987.82	6,653.00	7,249.14	6,539.13	5,472.39	4,388.27	3,495.43	3,139.99	55,526.37	
(29)	Total S + T Auth. Non-Gas Revenue	\$2,456	\$2,496	\$2,520	\$101,287	\$116,543	\$144,633	\$154,690	\$142,712	\$124,717	\$106,428	\$91,367	\$85,370	\$1,075,220	
(30)	Allowed Net RPC	\$2,455.67	\$2,495.95	\$2,520.36	\$2,813.52	\$3,237.29	\$4,017.60	\$4,296.95	\$3,964.24	\$3,464.36	\$2,956.34	\$2,537.96	\$2,371.40	\$37,131.64	
(31)	CAP - UPC (including GAP)	2,599.21	2,642.99	2,669.51	2,993.61	3,457.26	4,310.99	4,616.64	4,252.61	3,705.69	3,149.86	2,692.11	2,509.87	\$39,600.34	
	(1) - Includes Delivery + CCRA														
	(2) - CCRC + CCRA														
					\$0.90420	incl \$0.4686 Del B4 CCRC+	\$0.2362 CCRC+	\$0.1553 CCRA+	0.0441 GAP						

RD RIDER: Decoupling Model
Docket G-008/M-18-_____
Large Volume Firm - Peak Day Greater Than 2,000 Therms
Sales Service + Transport

ACTUAL RESULTS		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual	Average
SALES (S) Service															
(32) Actual Customers		11	10	13	13	15	15	16	15	15	15	15	15	168	14
(33) Actual Sales - DT		24,042	26,700	31,202	38,865	60,277	86,857	100,423	48,070	76,418	29,090	31,143	27,647	580,733	
(34) Actual UPC - DT		2,185.59	2,670.00	2,400.12	2,989.60	4,018.47	5,790.43	6,276.43	3,204.68	5,094.55	1,939.30	2,076.23	1,843.15	40,488.56	
(35)															
(36) Authorized Basic Charge		\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	
(37) Authorized Delivery Charge per DT ⁽¹⁾		\$0.9272	\$0.9272	\$0.9272	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	
(38) Authorized CIP Charge per DT		\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	
(39) Authorized GAP Charge per DT		\$0.0462	\$0.0462	\$0.0462	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	
(40) Net Authorized Delivery Charge per DT		\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	
(41) Actual Basic Charge Revenues		\$8,800	\$8,000	\$10,400	\$11,700	\$13,500	\$13,500	\$14,400	\$13,500	\$13,500	\$13,500	\$13,500	\$13,500	\$147,800	
(42) Actual Delivery Charge Revenues		\$12,812	\$14,228	\$16,627	\$18,212	\$28,246	\$40,701	\$47,058	\$22,526	\$35,810	\$13,631	\$14,594	\$12,956	\$277,400	
(43) Actual Non-Gas Revenues		\$21,612	\$22,228	\$27,027	\$29,912	\$41,746	\$54,201	\$61,458	\$36,026	\$49,310	\$27,131	\$28,094	\$26,456	\$425,200	
TRANSPORT (T) Service															
(44) Actual Customers		15	17	17	22	30	22	23	23	24	24	24	24	265	22
(45) Actual Sales - DT		52,707	52,093	58,556	82,042	131,212	207,282	245,508	223,324	182,157	177,391	92,610	85,755	1,590,637	
(46) Actual UPC - DT		3513.81	3064.26	3444.46	3729.17	4373.74	9421.92	10674.25	9709.73	7589.87	7391.31	3858.76	3573.13	70,344	
(47)															
(48)															
(49) Authorized Basic Charge		\$800.00	\$800.00	\$800.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	\$900.00	
(50) Authorized Delivery Charge per DT ⁽¹⁾		\$0.9272	\$0.9272	\$0.9272	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	\$0.9042	
(51) Authorized CIP Charge per DT		\$0.3481	\$0.3481	\$0.3481	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	\$0.3915	
(52) Authorized GAP Charge per DT		\$0.0462	\$0.0462	\$0.0462	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	\$0.0441	
(53) Net Authorized Delivery Charge per DT		\$0.53290	\$0.53290	\$0.53290	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	\$0.46860	
(54) Actual Basic Charge Revenues		\$12,000	\$13,600	\$13,600	\$19,800	\$27,000	\$19,800	\$20,700	\$20,700	\$21,600	\$21,600	\$21,600	\$21,600	\$233,600	
(55) Actual Delivery Charge Revenues		\$28,088	\$27,760	\$31,204	\$38,445	\$61,486	\$97,132	\$115,045	\$104,650	\$85,359	\$83,126	\$43,397	\$40,185	\$755,876	
(56) Actual Non-Gas Revenues		\$40,088	\$41,360	\$44,804	\$58,245	\$88,486	\$116,932	\$135,745	\$125,350	\$106,959	\$104,726	\$64,997	\$61,785	\$989,476	

LG GEN FIRM- Standard: S + T		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual	Average
Combined Actual															
(57) NON-GAS MARGIN cap		\$63,847	\$67,391	\$75,611	\$98,473	\$145,678	\$148,651	\$167,581	\$150,641	\$135,110	\$115,297	\$98,980	\$92,485	\$1,359,746	\$135,975
(58) Combined S&T - Customers		26	27	30	35	45	37	39	38	39	39	39	39	36	0.0816
(59) Combined S&T - Sales - DT		76,749	78,793	89,757	120,907	191,489	294,139	345,931	271,394	258,575	206,481	123,754	113,402	2,171,370	Per DT
(60) Combined S&T UPC - DT		2951.87	2918.24	2991.91	3454.47	4255.32	7949.69	8870.02	7141.95	6630.13	5294.38	3173.17	2907.75	58,538.90	
(61)															
LG GEN FIRM-Standard: S + T Auth.															
Non-Gas Revenue															
(62) Actual Non-Gas Revenues		\$61,699	\$63,589	\$71,832	\$88,157	\$130,232	\$171,133	\$197,203	\$161,375	\$156,268	\$131,857	\$93,091	\$88,240	\$1,414,676	
(64) Allowed Net Non-Gas Revenues		\$63,847	\$67,391	\$75,611	\$98,473	\$145,678	\$148,651	\$167,581	\$150,641	\$135,110	\$115,297	\$98,980	\$92,485	\$1,359,746	
(65) Under / (Over) Collection - Accrual		\$2,148	\$3,802	\$3,779	\$10,316	\$15,446	(\$22,482)	(\$29,622)	(\$10,734)	(\$21,158)	(\$16,560)	\$5,890	\$4,244	(\$54,931)	(\$0.0330)

2017-2018 RD Rider: Decoupling

Decoupling Factors: Effective September 1, 2018 - August 31, 2019
Annual bill estimate

	Decoupling Adjustment (\$ / DT)	Annual Use per Customer (in DT)	Annual Cost / (Refund)
<u>Residential</u>	(0.1208)	89.1	(\$10.76)
<u>Commercial - A</u> (<1500 Therms/Yr)	(0.2396)	81.1	(\$19.43)
<u>Commercial / Industrial -B</u> (1,500 - 5,000 Therms /Yr)	(0.1190)	294.0	(\$34.99)
<u>Commercial / Industrial -C</u> (> 5,000 Therms /Yr)	(0.1152)	1724.0	(\$199)
<u>Small Volume Dual Fuel - A</u> (< 120,000 Therms/Year)	(0.0068)	4,407	(\$30)
<u>Small Volume Dual Fuel - B</u> (> 120,000 Therms/Year)	0.0039	17,741	\$69
<u>Large Volume Dual Fuel</u> (Peak Day > 2,000 Therms)	(0.0296)	81,600	(\$2,415)
<u>Large Volume Firm</u> (Peak Day > 2,000 Therms)	0.1017	55,600	\$5,655

* Use Per Customer based on 2017 Rate Case - Final Forecast

Table D-10
Residential - Gas margin Revenue under Traditional Regulation

	Total Revenue Actual- 1/	Total Revenue under Traditional Reg - 2/	Actual Revenue / Customer	Traditional Revenue / Customer
Jul-15	\$15,740,786	\$15,740,786	\$20.67	\$20.67
Aug-15	\$14,940,612	\$14,940,612	\$19.62	\$19.62
Sep-15	\$14,716,469	\$14,716,469	\$19.28	\$19.28
Oct-15	\$16,856,697	\$16,856,697	\$21.99	\$21.99
Nov-15	\$27,590,266	\$27,590,266	\$35.87	\$35.87
Dec-15	\$49,342,331	\$49,342,331	\$64.01	\$64.01
Jan-16	\$72,986,800	\$72,986,800	\$94.51	\$94.51
Feb-16	\$71,073,263	\$71,073,263	\$91.99	\$91.99
Mar-16	\$57,586,269	\$57,586,269	\$74.52	\$74.52
Apr-16	\$41,164,062	\$41,164,062	\$53.28	\$53.28
May-16	\$24,797,254	\$24,797,254	\$32.16	\$32.16
Jun-16	\$16,968,222	\$16,968,222	\$22.03	\$22.03
Jul-16	\$14,845,712	\$14,845,712	\$19.29	\$19.29
Aug-16	\$13,975,820	\$13,975,820	\$18.16	\$18.16
Sep-16	\$15,138,165	\$14,831,425	\$19.62	\$19.22
Oct-16	\$18,216,494	\$17,811,600	\$23.51	\$22.99
Nov-16	\$28,310,163	\$27,460,802	\$36.43	\$35.34
Dec-16	\$62,755,081	\$60,768,135	\$80.59	\$78.03
Jan-17	\$104,852,315	\$101,669,756	\$134.41	\$130.33
Feb-17	\$79,499,635	\$76,695,895	\$101.86	\$98.26
Mar-17	\$62,942,855	\$60,595,005	\$80.64	\$77.63
Apr-17	\$51,217,975	\$49,413,631	\$65.63	\$63.32
May-17	\$32,411,059	\$31,381,271	\$41.55	\$40.23
Jun-17	\$21,676,920	\$21,079,652	\$27.80	\$27.04
Jul-17	\$16,383,586	\$15,996,373	\$21.02	\$20.52
Aug-17	\$15,021,133	\$14,690,494	\$19.26	\$18.83
Sep-17	\$16,613,627	\$16,226,757	\$21.24	\$20.75
Oct-17	\$18,684,667	\$18,216,141	\$23.80	\$23.20
Nov-17	\$42,660,355	\$41,172,678	\$54.19	\$52.30
Dec-17	\$65,555,082	\$63,186,764	\$83.10	\$80.10
Jan-18	\$110,369,015	\$106,423,458	\$139.72	\$134.73
Feb-18	\$109,914,400	\$106,509,367	\$139.02	\$134.71
Mar-18	\$80,202,068	\$77,247,126	\$101.36	\$97.62
Apr-18	\$62,432,810	\$60,043,266	\$78.89	\$75.87
May-18	\$35,579,735	\$34,287,252	\$45.03	\$43.39
Jun-18	\$18,156,940	\$17,689,802	\$22.99	\$22.40
July 15 - June 16	\$423,763,031	\$423,763,031	\$549.94	\$549.94
July 16 - June 17	\$505,842,193	\$490,528,705	\$649.48	\$629.84
July 17 - June 18	\$591,573,416	\$571,689,479	\$749.61	\$724.43

1/ Includes Basic Charge, GAP, CIP, RD Rider, Cost of Gas, and Delivery charge
2/ Calculation of Revenue excludes the RD Rider surcharge, since under "traditional" rates this revenue would not be billed.

Table D-10
Commercial - A - Gas margin Revenue under Traditional Regulation

	Total Revenue Actual- 1/	Total Revenue under Traditional Reg - 2/	Actual Revenue / Customer	Traditional Revenue / Customer
Jul-15	\$553,799	\$553,799	\$19.89	\$19.89
Aug-15	\$506,370	\$506,370	\$17.85	\$17.85
Sep-15	\$530,332	\$530,332	\$18.70	\$18.70
Oct-15	\$556,162	\$556,162	\$19.56	\$19.56
Nov-15	\$797,108	\$797,108	\$27.94	\$27.94
Dec-15	\$1,562,881	\$1,562,881	\$54.60	\$54.60
Jan-16	\$2,531,383	\$2,531,383	\$88.23	\$88.23
Feb-16	\$2,571,626	\$2,571,626	\$89.60	\$89.60
Mar-16	\$2,038,503	\$2,038,503	\$71.14	\$71.14
Apr-16	\$1,356,443	\$1,356,443	\$47.46	\$47.46
May-16	\$851,500	\$851,500	\$29.91	\$29.91
Jun-16	\$593,239	\$593,239	\$20.89	\$20.89
Jul-16	\$538,980	\$538,980	\$19.02	\$19.02
Aug-16	\$562,914	\$554,754	\$19.03	\$18.76
Sep-16	\$564,559	\$556,684	\$19.12	\$18.86
Oct-16	\$618,202	\$607,548	\$20.87	\$20.51
Nov-16	\$962,354	\$931,463	\$32.34	\$31.30
Dec-16	\$2,333,528	\$2,230,590	\$78.07	\$74.62
Jan-17	\$4,563,549	\$4,303,659	\$152.54	\$143.85
Feb-17	\$3,380,380	\$3,187,329	\$113.04	\$106.59
Mar-17	\$2,524,489	\$2,376,209	\$84.54	\$79.57
Apr-17	\$1,954,163	\$1,849,207	\$65.64	\$62.11
May-17	\$1,190,713	\$1,138,816	\$40.11	\$38.36
Jun-17	\$755,383	\$733,384	\$25.51	\$24.76
Jul-17	\$615,054	\$602,565	\$20.80	\$20.38
Aug-17	\$595,721	\$583,792	\$20.64	\$20.22
Sep-17	\$613,150	\$607,432	\$21.23	\$21.03
Oct-17	\$630,930	\$624,771	\$21.74	\$21.53
Nov-17	\$1,392,909	\$1,362,438	\$47.76	\$46.72
Dec-17	\$2,442,000	\$2,380,398	\$83.47	\$81.36
Jan-18	\$4,449,761	\$4,333,863	\$151.86	\$147.91
Feb-18	\$4,547,299	\$4,444,532	\$154.98	\$151.48
Mar-18	\$3,265,051	\$3,178,455	\$111.39	\$108.44
Apr-18	\$2,404,484	\$2,339,957	\$82.17	\$79.97
May-18	\$1,350,011	\$1,318,281	\$46.33	\$45.24
Jun-18	\$681,207	\$673,074	\$23.47	\$23.19
July 15 - June 16	\$14,449,345	\$14,449,345	\$505.78	\$505.78
July 16 - June 17	\$19,949,214	\$19,008,623	\$669.83	\$638.32
July 17 - June 18	\$22,987,577	\$22,449,558	\$785.85	\$767.47

1/ Includes Basic Charge, GAP, CIP, RD Rider, Cost of Gas, and Delivery charge
2/ Calculation of Revenue excludes the RD Rider surcharge, since under "traditional" rates this revenue would not be billed.

Table D-10
Commercial/Industrial - B - Gas margin Revenue under Traditional Regulation

	Total Revenue Actual- 1/	Total Revenue under Traditional Reg - 2/	Actual Revenue / Customer	Traditional Revenue / Customer
Jul-15	\$878,425	\$878,425	\$45.30	\$45.30
Aug-15	\$799,479	\$799,479	\$42.06	\$42.06
Sep-15	\$777,864	\$777,864	\$40.88	\$40.88
Oct-15	\$902,399	\$902,399	\$47.23	\$47.23
Nov-15	\$1,554,246	\$1,554,246	\$80.92	\$80.92
Dec-15	\$3,322,546	\$3,322,546	\$172.44	\$172.44
Jan-16	\$5,349,941	\$5,349,941	\$277.06	\$277.06
Feb-16	\$5,368,769	\$5,368,769	\$278.04	\$278.04
Mar-16	\$4,263,729	\$4,263,729	\$220.98	\$220.98
Apr-16	\$2,747,020	\$2,747,020	\$142.61	\$142.61
May-16	\$1,524,743	\$1,524,743	\$79.36	\$79.36
Jun-16	\$926,148	\$926,148	\$48.32	\$48.32
Jul-16	\$814,561	\$814,561	\$42.54	\$42.54
Aug-16	\$731,260	\$731,260	\$38.93	\$38.93
Sep-16	\$816,963	\$799,329	\$43.46	\$42.52
Oct-16	\$1,006,575	\$982,496	\$53.30	\$52.03
Nov-16	\$1,657,174	\$1,602,664	\$87.45	\$84.58
Dec-16	\$4,534,638	\$4,381,115	\$238.80	\$230.72
Jan-17	\$8,666,100	\$8,388,478	\$455.80	\$441.20
Feb-17	\$6,518,975	\$6,302,318	\$343.05	\$331.65
Mar-17	\$4,815,769	\$4,644,805	\$253.45	\$244.45
Apr-17	\$3,812,003	\$3,683,505	\$201.14	\$194.36
May-17	\$2,134,816	\$2,069,412	\$112.89	\$109.43
Jun-17	\$1,243,131	\$1,210,700	\$65.91	\$64.19
Jul-17	\$958,148	\$935,898	\$50.88	\$49.70
Aug-17	\$827,888	\$810,866	\$43.38	\$42.49
Sep-17	\$887,327	\$866,686	\$46.46	\$45.38
Oct-17	\$1,002,611	\$977,402	\$52.27	\$50.95
Nov-17	\$2,756,428	\$2,656,167	\$143.29	\$138.08
Dec-17	\$4,834,935	\$4,653,236	\$250.94	\$241.51
Jan-18	\$8,856,776	\$8,532,106	\$459.38	\$442.54
Feb-18	\$9,098,771	\$8,811,646	\$471.51	\$456.63
Mar-18	\$6,437,315	\$6,190,788	\$333.90	\$321.12
Apr-18	\$4,771,225	\$4,579,307	\$247.95	\$237.97
May-18	\$2,540,986	\$2,441,162	\$132.41	\$127.20
Jun-18	\$1,020,462	\$993,054	\$53.34	\$51.91
July 15 - June 16	\$28,415,309	\$28,415,309	\$1,475.19	\$1,475.19
July 16 - June 17	\$36,751,964	\$35,610,642	\$1,936.74	\$1,876.61
July 17 - June 18	\$43,992,872	\$42,448,319	\$2,285.71	\$2,205.48

1/ Includes Basic Charge, GAP, CIP, RD Rider, Cost of Gas, and Delivery charge

2/ Calculation of Revenue excludes the RD Rider surcharge, since under "traditional" rates this revenue would not be billed.

Table D-10
Commercial/Industrial - C - Gas margin Revenue under Traditional Regulation

	Total Revenue Actual- 1/	Total Revenue under Traditional Reg - 2/	Actual Revenue / Customer	Traditional Revenue / Customer
Jul-15	\$4,899,380	\$4,899,380	\$ 260.22	\$ 260.22
Aug-15	\$4,662,873	\$4,662,873	\$ 249.70	\$ 249.70
Sep-15	\$4,341,386	\$4,341,386	\$ 232.16	\$ 232.16
Oct-15	\$5,377,100	\$5,377,100	\$ 286.31	\$ 286.31
Nov-15	\$8,759,319	\$8,759,319	\$ 463.60	\$ 463.60
Dec-15	\$16,046,109	\$16,046,109	\$ 845.47	\$ 845.47
Jan-16	\$24,403,957	\$24,403,957	\$ 1,280.51	\$ 1,280.51
Feb-16	\$24,123,474	\$24,123,474	\$ 1,264.47	\$ 1,264.47
Mar-16	\$20,612,837	\$20,612,837	\$ 1,080.05	\$ 1,080.05
Apr-16	\$14,199,922	\$14,199,922	\$ 744.35	\$ 744.35
May-16	\$8,264,627	\$8,264,627	\$ 433.88	\$ 433.88
Jun-16	\$5,185,172	\$5,185,172	\$ 272.24	\$ 272.24
Jul-16	\$4,571,556	\$4,571,556	\$ 240.10	\$ 240.10
Aug-16	\$4,172,883	\$4,172,883	\$ 230.15	\$ 230.15
Sep-16	\$4,713,872	\$4,635,344	\$ 259.06	\$ 254.75
Oct-16	\$6,181,279	\$6,079,402	\$ 337.52	\$ 331.95
Nov-16	\$9,550,187	\$9,368,840	\$ 521.58	\$ 511.68
Dec-16	\$20,917,102	\$20,548,202	\$ 1,119.58	\$ 1,099.83
Jan-17	\$37,593,741	\$36,984,649	\$ 2,007.14	\$ 1,974.62
Feb-17	\$29,907,776	\$29,338,054	\$ 1,596.36	\$ 1,565.95
Mar-17	\$23,127,888	\$22,649,307	\$ 1,234.54	\$ 1,208.99
Apr-17	\$19,886,475	\$19,488,898	\$ 1,061.80	\$ 1,040.57
May-17	\$12,832,340	\$12,581,815	\$ 682.28	\$ 668.96
Jun-17	\$7,855,387	\$7,706,010	\$ 417.06	\$ 409.13
Jul-17	\$5,717,525	\$5,610,069	\$ 302.43	\$ 296.75
Aug-17	\$5,157,702	\$5,062,203	\$ 266.05	\$ 261.13
Sep-17	\$5,988,608	\$5,962,416	\$ 306.71	\$ 305.37
Oct-17	\$6,706,839	\$6,677,345	\$ 340.29	\$ 338.80
Nov-17	\$15,130,698	\$15,057,772	\$ 760.99	\$ 757.32
Dec-17	\$25,049,774	\$24,931,117	\$ 1,254.87	\$ 1,248.93
Jan-18	\$41,728,287	\$41,541,200	\$ 2,085.89	\$ 2,076.54
Feb-18	\$45,347,925	\$45,174,108	\$ 2,262.08	\$ 2,253.41
Mar-18	\$31,874,377	\$31,722,838	\$ 1,588.79	\$ 1,581.24
Apr-18	\$24,884,937	\$24,758,176	\$ 1,239.66	\$ 1,233.35
May-18	\$15,372,473	\$15,290,813	\$ 766.63	\$ 762.56
Jun-18	\$7,062,228	\$7,029,232	\$ 352.27	\$ 350.62
July 15 - June 16	\$140,876,155	\$140,876,155	\$7,412.96	\$7,412.96
July 16 - June 17	\$181,310,485	\$178,124,961	\$9,707.18	\$9,536.70
July 17 - June 18	\$230,021,374	\$228,817,289	\$11,526.68	\$11,466.01

1/ Includes Basic Charge, GAP, CIP, RD Rider, Cost of Gas, and Delivery charge

2/ Calculation of Revenue excludes the RD Rider surcharge, since under "traditional" rates this revenue would not be billed.

Table D-10
Small Volume Dual Fuel - A - Gas margin Revenue under Traditional Regulation
Uses less than 120,000 therms/year

	Total Revenue Actual- 1/	Total Revenue under Traditional Reg - 2/	Actual Revenue / Customer	Traditional Revenue / Customer
Jul-15	\$986,890	\$986,890	\$ 520.79	\$ 520.79
Aug-15	\$1,061,670	\$1,061,670	\$ 561.14	\$ 561.14
Sep-15	\$1,085,037	\$1,085,037	\$ 568.98	\$ 568.98
Oct-15	\$2,332,614	\$2,332,614	\$ 1,214.27	\$ 1,214.27
Nov-15	\$3,645,337	\$3,645,337	\$ 1,912.56	\$ 1,912.56
Dec-15	\$5,385,164	\$5,385,164	\$ 2,855.34	\$ 2,855.34
Jan-16	\$6,947,681	\$6,947,681	\$ 3,689.69	\$ 3,689.69
Feb-16	\$5,565,686	\$5,565,686	\$ 2,963.62	\$ 2,963.62
Mar-16	\$3,872,039	\$3,872,039	\$ 2,063.99	\$ 2,063.99
Apr-16	\$2,507,453	\$2,507,453	\$ 1,342.32	\$ 1,342.32
May-16	\$1,156,630	\$1,156,630	\$ 620.18	\$ 620.18
Jun-16	\$819,004	\$819,004	\$ 440.09	\$ 440.09
Jul-16	\$811,018	\$811,018	\$ 435.10	\$ 435.10
Aug-16	\$924,109	\$924,109	\$ 489.21	\$ 489.21
Sep-16	\$1,220,636	\$1,254,817	\$ 664.98	\$ 646.87
Oct-16	\$2,801,566	\$2,881,599	\$ 1,548.41	\$ 1,505.41
Nov-16	\$3,220,380	\$3,311,298	\$ 1,944.39	\$ 1,891.00
Dec-16	\$6,909,726	\$7,085,381	\$ 4,158.09	\$ 4,055.00
Jan-17	\$7,691,481	\$7,866,873	\$ 4,622.13	\$ 4,519.08
Feb-17	\$4,960,416	\$5,053,816	\$ 2,976.33	\$ 2,921.33
Mar-17	\$4,507,037	\$4,606,088	\$ 2,725.50	\$ 2,666.89
Apr-17	\$2,342,842	\$2,393,495	\$ 1,485.72	\$ 1,454.28
May-17	\$1,438,111	\$1,468,558	\$ 938.38	\$ 918.92
Jun-17	\$798,269	\$814,105	\$ 537.72	\$ 527.26
Jul-17	\$747,348	\$762,784	\$ 529.71	\$ 518.99
Aug-17	\$706,974	\$721,744	\$ 535.42	\$ 524.46
Sep-17	\$724,573	\$744,795	\$ 576.47	\$ 560.82
Oct-17	\$1,973,821	\$2,033,365	\$ 1,723.19	\$ 1,672.73
Nov-17	\$3,860,616	\$3,968,549	\$ 3,424.11	\$ 3,330.99
Dec-17	\$4,515,539	\$4,636,359	\$ 4,042.16	\$ 3,936.83
Jan-18	\$5,278,841	\$5,411,753	\$ 4,722.30	\$ 4,606.32
Feb-18	\$5,674,606	\$5,792,618	\$ 5,063.48	\$ 4,960.32
Mar-18	\$3,473,276	\$3,567,785	\$ 3,151.75	\$ 3,068.26
Apr-18	\$2,268,325	\$2,342,637	\$ 2,076.81	\$ 2,010.93
May-18	\$644,218	\$664,017	\$ 588.67	\$ 571.12
Jun-18	\$526,249	\$541,468	\$ 482.59	\$ 469.03
July 15 - June 16	\$35,365,207	\$35,365,207	\$18,752.95	\$18,752.95
July 16 - June 17	\$37,625,591	\$38,471,157	\$22,525.95	\$22,030.34
July 17 - June 18	\$30,394,387	\$31,187,873	\$26,916.66	\$26,230.79

1/ Includes Basic Charge, GAP, CIP, RD Rider, Cost of Gas, and Delivery charge

2/ Calculation of Revenue excludes the RD Rider surcharge, since under "traditional" rates this revenue would not be billed.

Table D-10
Small Volume Dual Fuel - B - Gas margin Revenue under Traditional Regulation
Uses greater than 120,000 therms/year

	Total Revenue Actual- 1/	Total Revenue under Traditional Reg - 2/	Actual Revenue / Customer	Traditional Revenue / Customer
Jul-15	\$1,001,259	\$1,001,259	\$ 2,621.10	\$ 2,621.10
Aug-15	\$984,225	\$984,225	\$ 2,590.07	\$ 2,590.07
Sep-15	\$900,033	\$900,033	\$ 2,381.04	\$ 2,381.04
Oct-15	\$1,478,650	\$1,478,650	\$ 3,911.77	\$ 3,911.77
Nov-15	\$2,397,647	\$2,397,647	\$ 6,309.60	\$ 6,309.60
Dec-15	\$3,380,348	\$3,380,348	\$ 8,966.44	\$ 8,966.44
Jan-16	\$4,235,810	\$4,235,810	\$ 11,235.57	\$ 11,235.57
Feb-16	\$3,484,466	\$3,484,466	\$ 9,267.20	\$ 9,267.20
Mar-16	\$2,660,639	\$2,660,639	\$ 7,095.04	\$ 7,095.04
Apr-16	\$1,747,462	\$1,747,462	\$ 4,647.50	\$ 4,647.50
May-16	\$917,460	\$917,460	\$ 2,479.62	\$ 2,479.62
Jun-16	\$723,171	\$723,171	\$ 1,959.81	\$ 1,959.81
Jul-16	\$828,825	\$828,825	\$ 2,252.24	\$ 2,252.24
Aug-16	\$854,405	\$854,405	\$ 2,309.20	\$ 2,309.20
Sep-16	\$950,777	\$977,165	\$ 2,648.14	\$ 2,576.63
Oct-16	\$1,596,623	\$1,640,269	\$ 4,433.16	\$ 4,315.20
Nov-16	\$2,125,342	\$2,182,648	\$ 6,457.54	\$ 6,287.99
Dec-16	\$4,243,677	\$4,345,962	\$ 12,896.03	\$ 12,592.51
Jan-17	\$4,748,576	\$4,850,679	\$ 14,479.64	\$ 14,174.85
Feb-17	\$3,168,503	\$3,219,379	\$ 9,610.09	\$ 9,458.22
Mar-17	\$2,946,984	\$3,002,647	\$ 9,044.12	\$ 8,876.46
Apr-17	\$1,643,187	\$1,674,010	\$ 5,247.68	\$ 5,151.06
May-17	\$1,226,163	\$1,249,048	\$ 3,977.86	\$ 3,904.98
Jun-17	\$844,708	\$859,985	\$ 2,783.12	\$ 2,733.68
Jul-17	\$726,334	\$740,006	\$ 2,458.49	\$ 2,413.07
Aug-17	\$794,643	\$809,811	\$ 2,708.40	\$ 2,657.67
Sep-17	\$787,604	\$805,318	\$ 2,776.96	\$ 2,715.88
Oct-17	\$1,442,814	\$1,476,241	\$ 5,198.03	\$ 5,080.33
Nov-17	\$2,605,023	\$2,660,237	\$ 9,467.03	\$ 9,270.54
Dec-17	\$3,545,586	\$3,617,337	\$ 12,873.08	\$ 12,617.74
Jan-18	\$4,139,886	\$4,218,409	\$ 14,906.04	\$ 14,628.57
Feb-18	\$4,621,015	\$4,692,818	\$ 16,524.01	\$ 16,271.18
Mar-18	\$2,796,282	\$2,853,998	\$ 10,120.56	\$ 9,915.89
Apr-18	\$1,902,263	\$1,950,283	\$ 6,915.90	\$ 6,745.61
May-18	\$773,308	\$792,542	\$ 2,820.43	\$ 2,751.99
Jun-18	\$652,126	\$667,593	\$ 2,384.26	\$ 2,329.02
July 15 - June 16	\$23,911,169	\$23,911,169	\$63,464.76	\$63,464.76
July 16 - June 17	\$25,177,770	\$25,685,024	\$76,138.83	\$74,633.03
July 17 - June 18	\$24,786,883	\$25,284,592	\$89,153.20	\$87,397.50

1/ Includes Basic Charge, GAP, CIP, RD Rider, Cost of Gas, and Delivery charge

2/ Calculation of Revenue excludes the RD Rider surcharge, since under "traditional" rates this revenue would not be billed.

Table D-10
Large Volume - Firm and Dual Fuel Combined - Gas margin Revenue Estimate
Peak Day Greater than 2,000 Therms

	Total Revenue Actual- 1/	Total Revenue under Traditional Reg - 2/	Actual Revenue / Customer	Traditional Revenue / Customer
Jul-15	\$4,284,828	\$4,284,828	\$19,837.17	\$19,837.17
Aug-15	\$4,726,856	\$4,726,856	\$21,883.59	\$21,883.59
Sep-15	\$4,815,142	\$4,815,142	\$22,087.81	\$22,087.81
Oct-15	\$4,877,459	\$4,877,459	\$22,373.66	\$22,373.66
Nov-15	\$5,087,739	\$5,087,739	\$23,231.69	\$23,231.69
Dec-15	\$5,936,036	\$5,936,036	\$27,355.01	\$27,355.01
Jan-16	\$7,186,675	\$7,186,675	\$33,118.32	\$33,118.32
Feb-16	\$6,084,689	\$6,084,689	\$28,040.04	\$28,040.04
Mar-16	\$5,151,030	\$5,151,030	\$23,737.47	\$23,737.47
Apr-16	\$4,175,404	\$4,175,404	\$19,330.57	\$19,330.57
May-16	\$3,430,027	\$3,430,027	\$15,953.61	\$15,953.61
Jun-16	\$3,648,420	\$3,648,420	\$17,128.73	\$17,128.73
Jul-16	\$4,668,948	\$4,668,948	\$21,515.89	\$21,515.89
Aug-16	\$5,186,771	\$5,186,771	\$23,792.53	\$23,792.53
Sep-16	\$4,715,520	\$4,682,944	\$21,630.83	\$21,481.39
Oct-16	\$5,429,905	\$5,393,358	\$24,794.09	\$24,627.20
Nov-16	\$5,630,964	\$5,592,191	\$25,250.96	\$25,077.09
Dec-16	\$8,621,321	\$8,570,602	\$38,660.63	\$38,433.19
Jan-17	\$10,131,050	\$10,078,291	\$45,430.72	\$45,194.13
Feb-17	\$7,493,406	\$7,444,604	\$33,602.72	\$33,383.88
Mar-17	\$6,998,507	\$6,944,107	\$31,243.34	\$31,000.48
Apr-17	\$5,577,742	\$5,536,461	\$25,012.29	\$24,827.18
May-17	\$5,792,361	\$5,749,433	\$26,091.72	\$25,898.35
Jun-17	\$5,245,739	\$5,207,906	\$23,523.49	\$23,353.84
Jul-17	\$4,680,652	\$4,645,414	\$21,275.69	\$21,115.52
Aug-17	\$4,953,536	\$4,915,752	\$22,213.17	\$22,043.73
Sep-17	\$4,712,927	\$4,708,449	\$21,039.85	\$21,019.86
Oct-17	\$5,633,247	\$5,627,760	\$25,374.98	\$25,350.27
Nov-17	\$6,974,607	\$6,968,223	\$27,677.01	\$27,651.68
Dec-17	\$8,177,292	\$8,170,167	\$37,339.23	\$37,306.70
Jan-18	\$9,824,732	\$9,816,774	\$44,255.55	\$44,219.70
Feb-18	\$11,405,412	\$11,398,039	\$51,375.73	\$51,342.52
Mar-18	\$7,353,739	\$7,347,187	\$33,124.95	\$33,095.43
Apr-18	\$5,544,333	\$5,538,401	\$25,201.51	\$25,174.55
May-18	\$3,719,266	\$3,715,338	\$16,905.75	\$16,887.90
Jun-18	\$3,967,598	\$3,963,594	\$18,034.54	\$18,016.34
July 15 - June 16	\$59,404,305	\$59,404,305	\$274,078	\$274,078
July 16 - June 17	\$75,492,233	\$75,055,615	\$340,549	\$338,585
July 17 - June 18	\$76,947,340	\$76,815,099	\$343,818	\$343,224

1/ Includes Basic Charge, GAP, CIP, RD Rider, Cost of Gas, and Delivery charge

2/ Calculation of Revenue excludes the RD Rider surcharge, since under "traditional" rates this revenue would not be billed.

Detailed Chronological Listing of Docket Numbers

	PGA	Demand Entitlement	True-Up	Rate Case	New Base COG	Misc. Rider
	"AA"	"M"	"AA"	"GR"	"MR"	"M"
Jan-11	11-16					
Feb-11	11-97					
Mar-11	11-173					
Apr-11	11-264					
May-11	11-400					
Jun-11	11-514					
Jul-11	11-696					
Aug-11	11-785					
Sep-11	11-877		11-793, 11-896			
Oct-11	11-1004, 11-1028					
Nov-11	11-1081	11-1078				
Dec-11	11-1176					
Jan-12	12-12					11-383
Feb-12	12-97					
Mar-12	12-186					
Apr-12	12-339					
May-12	12-435					
Jun-12	12-540					
Jul-12	12-722					
Aug-12	12-849	12-864				
Sep-12	12-934		12-756, 12-942			
Oct-12	12-1061					
Nov-12	12-1191					
Dec-12	12-1316					12-437
Jan-13	13-12					
Feb-13	13-81					
Mar-13	13-160					
Apr-13	13-250					
May-13	13-332					
Jun-13	13-441					
Jul-13	13-567	13-578				
Aug-13	13-664		13-600, 13-790	13-316	13-674	13-728
Sep-13	13-777					
Oct-13	13-912					13-373
Nov-13	13-1019					
Dec-13	13-1107					
Jan-14	14-17					
Feb-14	14-104					
Mar-14	14-188					
Apr-14	14-295					
May-14	14-372					
Jun-14	14-464					
Jul-14	14-562	14-561				
Aug-14	14-659					
Sep-14	14-751		14-580			

	PGA	Demand Entitlement	True-Up	Rate Case	New Base COG	Misc. Rider
	"AA"	"M"	"AA"	"GR"	"MR"	"M"
Oct-14	14-854					
Nov-14	14-948					
Dec-14	14-1004					
Jan-15	15-25					14-368
Feb-15	15-119					
Mar-15	15-196					
Apr-15	15-327					
May-15	15-415					
Jun-15	15-543					
Jul-15	15-639	15-644				
Aug-15	15-734			15-424	15-728	
Sep-15	15-799		15-612, 15-800			
Oct-15	15-890					
Nov-15	15-964					
Dec-15	15-1019					
Jan-16	16-21					CCRA 15-421
Feb-16	16-101					
Mar-16	16-192					Demand Adj16-228
Apr-16	16-285					
May-16	16-376					
Jun-16	16-449					
Jul-16	16-559	16-571	16-524, 16-730			
Aug-16	16-646					
Sep-16	16-728			13-316 RD Rider		
Oct-16	16-819					
Nov-16	16-890					
Dec-16	16-990			Final 15-424	Base COG 16-741	
Jan-17	17-22					CCRA 16-366
Feb-17	17-107					
Mar-17	17-170					
Apr-17	17-262					
May-17	17-323					17-339
Jun-17	17-441					
Jul-17	17-534	17-533				
Aug-17	17-589			17-285	Base COG 17-591	
Sep-17	17-653		17-493, 17-668	13-316 RD Rider		
Oct-17	17-724				17-591	
Nov-17	17-783					
Dec-17	17-844					
Jan-18	18-24/18-55					No Change
Feb-18	18-107					
Mar-18	18-177					
Apr-18	18-237					
May-18	18-311					CCRA 18-120
Jun-18	18-359					

Residential Gas Rates

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
		Basic Charge	GAP / therm	CIP / therm	Delivery Charge / therm inc CIP	CE or RD Rider / therm	IBR Adjust Factor	Demand Cost / therm	Comdity Cost / therm	GCR True-Up Cost / therm	Total Effective Rate (D+F+G+H+I+J+K)
(75)	Jan-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	(\$0.00274)	\$0.00000	\$0.07661	\$0.35846	\$0.02112	\$0.63898
(76)	Feb-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	(\$0.00274)	\$0.00000	\$0.08851	\$0.35698	\$0.02112	\$0.64940
(77)	Mar-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	\$0.00012	\$0.00000	\$0.09370	\$0.36412	\$0.02112	\$0.66459
(78)	Apr-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	\$0.00012	\$0.00000	\$0.06117	\$0.40909	\$0.02112	\$0.67703
(79)	May-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	\$0.00012	\$0.00000	\$0.05609	\$0.43017	\$0.02112	\$0.69303
(80)	Jun-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	\$0.00012	\$0.00000	\$0.07483	\$0.42815	\$0.02112	\$0.70975
(81)	Jul-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	\$0.00012	\$0.00000	\$0.07483	\$0.38208	\$0.02112	\$0.66368
(82)	Aug-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	\$0.00012	\$0.00000	\$0.07483	\$0.35753	\$0.02112	\$0.63913
(83)	Sep-13	\$8.00	\$0.00490	\$0.02070	\$0.18063	\$0.00012	\$0.00000	\$0.07483	\$0.37236	(\$0.00026)	\$0.63258
(84)	Oct-13	\$8.00	\$0.00490	\$0.03292	\$0.18063	\$0.00012	\$0.00000	\$0.07483	\$0.37628	(\$0.00026)	\$0.63650
(85)	Nov-13	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00012	\$0.00000	\$0.07360	\$0.39885	(\$0.00026)	\$0.65017
(86)	Dec-13	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00012	\$0.00000	\$0.07282	\$0.41183	(\$0.00026)	\$0.66237
(87)											
(88)	Jan-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00012	\$0.00000	\$0.05460	\$0.47594	(\$0.00026)	\$0.70826
(89)	Feb-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00012	\$0.00000	\$0.05566	\$0.55912	(\$0.00026)	\$0.79250
(90)	Mar-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.05071	\$0.87194	(\$0.00026)	\$1.10324
(91)	Apr-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.04993	\$0.58444	(\$0.00026)	\$0.81496
(92)	May-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.04968	\$0.45802	(\$0.00026)	\$0.68829
(93)	Jun-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.06624	\$0.47509	(\$0.00026)	\$0.72192
(94)	Jul-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.06624	\$0.47912	(\$0.00026)	\$0.72595
(95)	Aug-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.06624	\$0.39568	(\$0.00026)	\$0.64251
(96)	Sep-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.06624	\$0.41241	\$0.04083	\$0.70033
(97)	Oct-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.06965	\$0.43480	\$0.04083	\$0.72613
(98)	Nov-14	\$8.00	\$0.00490	\$0.02525	\$0.17296	\$0.00299	\$0.00000	\$0.09050	\$0.43991	\$0.04083	\$0.75209
(99)	Dec-14	\$9.50	\$0.00519	\$0.02508	\$0.19117	\$0.00299	\$0.00000	\$0.07360	\$0.49148	\$0.04083	\$0.80526
(100)											
(101)	Jan-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00299	\$0.00000	\$0.06218	\$0.42198	\$0.04083	\$0.72658
(102)	Feb-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00299	\$0.00000	\$0.07911	\$0.38562	\$0.04083	\$0.70715
(103)	Mar-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00000	\$0.00000	\$0.06218	\$0.44036	\$0.04083	\$0.74197
(104)	Apr-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00000	\$0.00000	\$0.09648	\$0.30646	\$0.04083	\$0.64237
(105)	May-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00000	\$0.00000	\$0.10355	\$0.24666	\$0.04083	\$0.58964
(106)	Jun-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00000	\$0.00000	\$0.08282	\$0.28942	\$0.04083	\$0.61167
(107)	Jul-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00000	\$0.00000	\$0.08282	\$0.28077	\$0.04083	\$0.60302
(108)	Aug-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00000	\$0.00000	\$0.08282	\$0.29164	\$0.04083	\$0.61389
(109)	Sep-15	\$9.50	\$0.00519	\$0.02732	\$0.19341	\$0.00000	\$0.00000	\$0.08282	\$0.28063	(\$0.00877)	\$0.55328
(110)	Oct-15	\$9.50	\$0.00519	\$0.02833	\$0.19341	\$0.00000	\$0.00000	\$0.07791	\$0.27831	(\$0.00877)	\$0.54605
(111)	Nov-15	\$9.50	\$0.00519	\$0.02833	\$0.19341	\$0.00000	\$0.00000	\$0.07591	\$0.28243	(\$0.00877)	\$0.54817
(112)	Dec-15	\$9.50	\$0.00519	\$0.02833	\$0.19341	\$0.00000	\$0.00000	\$0.07588	\$0.29715	(\$0.00877)	\$0.56286
(113)											
(114)	Jan-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.08518	\$0.29362	(\$0.00877)	\$0.57001
(115)	Feb-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.07013	\$0.28608	(\$0.00877)	\$0.54742
(116)	Mar-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.08947	\$0.28649	(\$0.00877)	\$0.56717
(117)	Apr-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.10331	\$0.24701	(\$0.00877)	\$0.54153
(118)	May-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.10328	\$0.19784	(\$0.00877)	\$0.49233
(119)	Jun-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.08257	\$0.20116	(\$0.00877)	\$0.47494
(120)	Jul-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.08257	\$0.27167	(\$0.00877)	\$0.54545
(121)	Aug-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.00000	\$0.00000	\$0.08257	\$0.27167	(\$0.00877)	\$0.54545
(122)	Sep-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.02357	\$0.00000	\$0.08267	\$0.28716	\$0.00667	\$0.60005
(123)	Oct-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.02357	\$0.00000	\$0.10278	\$0.29890	\$0.00667	\$0.63190
(124)	Nov-16	\$9.50	\$0.00519	\$0.02971	\$0.19479	\$0.02357	\$0.00000	\$0.06010	\$0.29045	\$0.00667	\$0.58077
(125)	Dec-16	\$9.50	\$0.00462	\$0.02949	\$0.21669	\$0.02357	\$0.00000	\$0.06765	\$0.33747	\$0.00667	\$0.65667
(126)											
(127)	Jan-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02357	\$0.00000	\$0.07320	\$0.39158	\$0.00667	\$0.72165
(128)	Feb-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02702	\$0.00000	\$0.07964	\$0.35473	\$0.00667	\$0.69469
(129)	Mar-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02702	\$0.00000	\$0.10078	\$0.27793	\$0.00667	\$0.63903
(130)	Apr-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02702	\$0.00000	\$0.10069	\$0.29496	\$0.00667	\$0.65597
(131)	May-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02702	\$0.00000	\$0.10069	\$0.29496	\$0.00667	\$0.65597
(132)	Jun-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02702	\$0.00000	\$0.08047	\$0.30480	\$0.00667	\$0.64559
(133)	Jul-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02702	\$0.00000	\$0.08047	\$0.28570	\$0.00667	\$0.62649
(134)	Aug-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02702	\$0.00000	\$0.08047	\$0.28114	\$0.00667	\$0.62193
(135)	Sep-17	\$9.50	\$0.00462	\$0.03481	\$0.22201	\$0.02660	\$0.00000	\$0.08047	\$0.28206	\$0.01565	\$0.63141
(136)	Oct-17	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.09299	\$0.27544	\$0.01565	\$0.63731
(137)	Nov-17	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.06015	\$0.30003	\$0.01565	\$0.62906
(138)	Dec-17	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.06016	\$0.32308	\$0.01565	\$0.65212
(139)											
(140)	Jan-18	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.06855	\$0.35606	\$0.01565	\$0.69349
(141)	Feb-18	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.06012	\$0.47097	\$0.01565	\$0.79997
(142)	Mar-18	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.07267	\$0.31275	\$0.01565	\$0.65430
(143)	Apr-18	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.10005	\$0.24237	\$0.01565	\$0.61130
(144)	May-18	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.06755	\$0.24132	\$0.01565	\$0.57775
(145)	Jun-18	\$9.50	\$0.00462	\$0.03974	\$0.22201	\$0.02660	\$0.00000	\$0.07996	\$0.25792	\$0.01565	\$0.60676

Commercial A - Gas Rates

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
		Basic Charge	GAP / therm	CIP / therm	Delivery Charge / therm inc CIP	CE or RD Rider / therm	IBR Adjust Factor	Demand Cost / therm	Comdity Cost / therm	GCR True-Up Cost / therm	Total Effective Rate (D+F+G+H+I+J+K)
(75)	Jan-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00039	\$0.00000	\$0.07661	\$0.35846	\$0.00490	\$0.60632
(76)	Feb-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00039	\$0.00000	\$0.08851	\$0.35698	\$0.00490	\$0.61674
(77)	Mar-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00820	\$0.00000	\$0.09370	\$0.36412	\$0.00490	\$0.63688
(78)	Apr-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00820	\$0.00000	\$0.06117	\$0.40909	\$0.00490	\$0.64932
(79)	May-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00820	\$0.00000	\$0.05609	\$0.43017	\$0.00490	\$0.66532
(80)	Jun-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00820	\$0.00000	\$0.07483	\$0.42815	\$0.00490	\$0.68204
(81)	Jul-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00820	\$0.00000	\$0.07483	\$0.38208	\$0.00490	\$0.63597
(82)	Aug-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00820	\$0.00000	\$0.07483	\$0.35753	\$0.00490	\$0.61142
(83)	Sep-13	\$12.00	\$0.00490	\$0.02070	\$0.16106	\$0.00820	\$0.00000	\$0.07483	\$0.37236	-\$0.00174	\$0.61961
(84)	Oct-13	\$12.00	\$0.00490	\$0.03292	\$0.16106	\$0.00820	\$0.00000	\$0.07483	\$0.37628	-\$0.00174	\$0.62353
(85)	Nov-13	\$12.00	\$0.00490	\$0.02525	\$0.15339	\$0.00820	\$0.00000	\$0.07360	\$0.39885	-\$0.00174	\$0.63720
(86)	Dec-13	\$12.00	\$0.00490	\$0.02525	\$0.15339	\$0.00820	\$0.00000	\$0.07282	\$0.41183	-\$0.00174	\$0.64940
(87)											
(88)	Jan-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	\$0.00820	\$0.00000	\$0.05460	\$0.47594	-\$0.00174	\$0.69529
(89)	Feb-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	\$0.00820	\$0.00000	\$0.05566	\$0.55912	-\$0.00174	\$0.77953
(90)	Mar-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.05071	\$0.87194	-\$0.00174	\$1.05778
(91)	Apr-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.04993	\$0.58444	-\$0.00174	\$0.76950
(92)	May-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.04968	\$0.45802	-\$0.00174	\$0.64283
(93)	Jun-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.06624	\$0.47509	-\$0.00174	\$0.67646
(94)	Jul-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.06624	\$0.47912	-\$0.00174	\$0.68049
(95)	Aug-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.06624	\$0.39568	-\$0.00174	\$0.59705
(96)	Sep-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.06624	\$0.41241	\$0.04083	\$0.65635
(97)	Oct-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.06965	\$0.43480	\$0.04083	\$0.68215
(98)	Nov-14	\$12.00	\$0.00490	\$0.02525	\$0.15339	-\$0.02142	\$0.00000	\$0.09050	\$0.43991	\$0.04083	\$0.70811
(99)	Dec-14	\$15.00	\$0.00519	\$0.02508	\$0.14788	-\$0.02142	\$0.00000	\$0.07360	\$0.49148	\$0.04083	\$0.73756
(100)											
(101)	Jan-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	-\$0.02142	\$0.00000	\$0.06218	\$0.42198	\$0.04083	\$0.65888
(102)	Feb-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	-\$0.02142	\$0.00000	\$0.07911	\$0.38562	\$0.04083	\$0.63945
(103)	Mar-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	\$0.00000	\$0.00000	\$0.06218	\$0.44036	\$0.04083	\$0.69868
(104)	Apr-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	\$0.00000	\$0.00000	\$0.09648	\$0.30646	\$0.04083	\$0.59908
(105)	May-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	\$0.00000	\$0.00000	\$0.10355	\$0.24666	\$0.04083	\$0.54635
(106)	Jun-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	\$0.00000	\$0.00000	\$0.08282	\$0.28942	\$0.04083	\$0.56838
(107)	Jul-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	\$0.00000	\$0.00000	\$0.08282	\$0.28077	\$0.04083	\$0.55973
(108)	Aug-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	\$0.00000	\$0.00000	\$0.08282	\$0.29164	\$0.04083	\$0.57060
(109)	Sep-15	\$15.00	\$0.00519	\$0.02732	\$0.15012	\$0.00000	\$0.00000	\$0.08282	\$0.28063	-\$0.00877	\$0.50999
(110)	Oct-15	\$15.00	\$0.00519	\$0.02833	\$0.15012	\$0.00000	\$0.00000	\$0.07791	\$0.27831	-\$0.00877	\$0.50276
(111)	Nov-15	\$15.00	\$0.00519	\$0.02833	\$0.15012	\$0.00000	\$0.00000	\$0.07591	\$0.28243	-\$0.00877	\$0.50488
(112)	Dec-15	\$15.00	\$0.00519	\$0.02833	\$0.15012	\$0.00000	\$0.00000	\$0.07588	\$0.29715	-\$0.00877	\$0.51957
(113)											
(114)	Jan-16	\$15.00	\$0.00519	\$0.02971	\$0.15150	\$0.00000	\$0.00000	\$0.08518	\$0.29362	-\$0.00877	\$0.52672
(115)	Feb-16	\$15.00	\$0.00519	\$0.02971	\$0.15150	\$0.00000	\$0.00000	\$0.07013	\$0.28608	-\$0.00877	\$0.50413
(116)	Mar-16	\$15.00	\$0.00519	\$0.02971	\$0.15150	\$0.00000	\$0.00000	\$0.08947	\$0.28649	-\$0.00877	\$0.52388
(117)	Apr-16	\$15.00	\$0.00519	\$0.02971	\$0.15150	\$0.00000	\$0.00000	\$0.10331	\$0.24701	-\$0.00877	\$0.49824
(118)	May-16	\$15.00	\$0.00519	\$0.02971	\$0.15150	\$0.00000	\$0.00000	\$0.10328	\$0.19784	-\$0.00877	\$0.44904
(119)	Jun-16	\$15.00	\$0.00519	\$0.02971	\$0.15150	\$0.00000	\$0.00000	\$0.08257	\$0.20116	-\$0.00877	\$0.43165
(120)	Jul-16	\$15.00	\$0.00519	\$0.02971	0.1515	0	\$0.00000	\$0.08257	\$0.27167	(\$0.00877)	\$0.50216
(121)	Aug-16	\$15.00	\$0.00519	\$0.02971	0.1515	0.03688	\$0.00000	\$0.08257	\$0.27167	(\$0.00877)	\$0.53904
(122)	Sep-16	\$15.00	\$0.00519	\$0.02971	0.1515	0.03688	\$0.00000	\$0.08267	\$0.28716	\$0.00667	\$0.57007
(123)	Oct-16	\$15.00	\$0.00519	\$0.02971	0.1515	0.03688	\$0.00000	\$0.10278	\$0.29890	\$0.00667	\$0.60192
(124)	Nov-16	\$15.00	\$0.00519	\$0.02971	0.21679	0.03688	\$0.00000	\$0.06010	\$0.29045	\$0.00667	\$0.61608
(125)	Dec-16	\$15.00	\$0.00462	\$0.02949	0.22211	0.03688	\$0.00000	\$0.06765	\$0.33747	\$0.00667	\$0.61608
(126)											#REF!
(127)	Jan-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.07320	\$0.39158	\$0.00667	\$0.74525
(128)	Feb-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.07964	\$0.35473	\$0.00667	\$0.71484
(129)	Mar-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.10078	\$0.27793	\$0.00667	\$0.65918
(130)	Apr-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.10069	\$0.29496	\$0.00667	\$0.67612
(131)	May-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.10069	\$0.29496	\$0.00667	\$0.67612
(132)	Jun-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.08047	\$0.30480	\$0.00667	\$0.66574
(133)	Jul-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.08047	\$0.28570	\$0.00667	\$0.64664
(134)	Aug-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.04707	\$0.00000	\$0.08047	\$0.28114	\$0.00667	\$0.62408
(135)	Sep-17	\$15.00	\$0.00462	\$0.03481	0.22211	0.01985	\$0.00000	\$0.08047	\$0.28206	\$0.01565	\$0.62476
(136)	Oct-17	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.09299	\$0.27544	\$0.01565	\$0.63066
(137)	Nov-17	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.06015	\$0.30003	\$0.01565	\$0.62241
(138)	Dec-17	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.06016	\$0.32308	\$0.01565	\$0.64547
(139)											
(140)	Jan-18	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.06855	\$0.35606	\$0.01565	\$0.68684
(141)	Feb-18	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.06012	\$0.47097	\$0.01565	\$0.79332
(142)	Mar-18	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.07267	\$0.31275	\$0.01565	\$0.64765
(143)	Apr-18	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.10005	\$0.24237	\$0.01565	\$0.60465
(144)	May-18	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.06755	\$0.24132	\$0.01565	\$0.57110
(145)	Jun-18	\$15.00	\$0.00462	\$0.03974	0.22211	0.01985	\$0.00000	\$0.07996	\$0.25792	\$0.01565	\$0.60011

Commercial / Industrial B - Gas Rates

(A)	(B)	Basic Charge (C)	GAP / therm (D)	CIP / therm (E)	Delivery Charge / therm inc CIP (F)	CE / RD Rider / therm (G)	IBR Adjust Factor (H)	Demand Cost / therm (I)	Comdity Cost / therm (J)	GCR True-Up Cost / therm (K)	Total Effective Rate (L) (D+F+G+H+I+J+K)
(75)	Jan-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.01313	\$0.00000	\$0.07661	\$0.35846	\$0.00490	\$0.59022
(76)	Feb-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.01313	\$0.00000	\$0.08851	\$0.35698	\$0.00490	\$0.60064
(77)	Mar-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.00987	\$0.00000	\$0.09370	\$0.36412	\$0.00490	\$0.61623
(78)	Apr-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.00987	\$0.00000	\$0.06117	\$0.40909	\$0.00490	\$0.62867
(79)	May-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.00987	\$0.00000	\$0.05609	\$0.43017	\$0.00490	\$0.64467
(80)	Jun-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.00987	\$0.00000	\$0.07483	\$0.42815	\$0.00490	\$0.66139
(81)	Jul-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.00987	\$0.00000	\$0.07483	\$0.38208	\$0.00490	\$0.61532
(82)	Aug-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.00987	\$0.00000	\$0.07483	\$0.35753	\$0.00490	\$0.59077
(83)	Sep-13	\$18.00	\$0.00490	\$0.02070	\$0.15848	-\$0.00987	\$0.00000	\$0.07483	\$0.37236	-\$0.00174	\$0.59896
(84)	Oct-13	\$18.00	\$0.00490	\$0.02292	\$0.15848	-\$0.00987	\$0.00000	\$0.07483	\$0.37628	-\$0.00174	\$0.60288
(85)	Nov-13	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.00987	\$0.00000	\$0.07360	\$0.39885	-\$0.00174	\$0.61655
(86)	Dec-13	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.00987	\$0.00000	\$0.07282	\$0.41183	-\$0.00174	\$0.62875
(87)											
(88)	Jan-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.00987	\$0.00000	\$0.05460	\$0.47594	-\$0.00174	\$0.67464
(89)	Feb-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.00987	\$0.00000	\$0.05566	\$0.55912	-\$0.00174	\$0.75888
(90)	Mar-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.05071	\$0.87194	-\$0.00174	\$1.06270
(91)	Apr-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.04993	\$0.58444	-\$0.00174	\$0.77442
(92)	May-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.04968	\$0.45802	-\$0.00174	\$0.64775
(93)	Jun-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.06624	\$0.47509	-\$0.00174	\$0.68138
(94)	Jul-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.06624	\$0.47912	-\$0.00174	\$0.68541
(95)	Aug-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.06624	\$0.39568	-\$0.00174	\$0.60197
(96)	Sep-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.06624	\$0.41241	\$0.04083	\$0.66127
(97)	Oct-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.06665	\$0.43480	\$0.04083	\$0.68707
(98)	Nov-14	\$18.00	\$0.00490	\$0.02525	\$0.15081	-\$0.01392	\$0.00000	\$0.09050	\$0.43991	\$0.04083	\$0.71303
(99)	Dec-14	\$21.00	\$0.00519	\$0.02508	\$0.14008	-\$0.01392	\$0.00000	\$0.07360	\$0.49148	\$0.04083	\$0.73726
(100)											
(101)	Jan-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	-\$0.01392	\$0.00000	\$0.06218	\$0.42198	\$0.04083	\$0.65858
(102)	Feb-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.07911	\$0.38562	\$0.04083	\$0.65307
(103)	Mar-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.06218	\$0.44036	\$0.04083	\$0.69088
(104)	Apr-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.09648	\$0.30646	\$0.04083	\$0.59128
(105)	May-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.10355	\$0.24666	\$0.04083	\$0.53855
(106)	Jun-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.08282	\$0.28942	\$0.04083	\$0.56058
(107)	Jul-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.08282	\$0.28077	\$0.04083	\$0.55193
(108)	Aug-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.08282	\$0.29164	\$0.04083	\$0.56290
(109)	Sep-15	\$21.00	\$0.00519	\$0.02732	\$0.14232	\$0.00000	\$0.00000	\$0.08282	\$0.28063	-\$0.00877	\$0.50219
(110)	Oct-15	\$21.00	\$0.00519	\$0.02833	\$0.14232	\$0.00000	\$0.00000	\$0.07791	\$0.27831	-\$0.00877	\$0.49496
(111)	Nov-15	\$21.00	\$0.00519	\$0.02833	\$0.14232	\$0.00000	\$0.00000	\$0.07591	\$0.28243	-\$0.00877	\$0.49708
(112)	Dec-15	\$21.00	\$0.00519	\$0.02833	\$0.14232	\$0.00000	\$0.00000	\$0.07588	\$0.29715	-\$0.00877	\$0.51177
(113)											
(114)	Jan-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.08518	0.29362	-\$0.00877	\$0.51892
(115)	Feb-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.07013	0.28608	-\$0.00877	\$0.49633
(116)	Mar-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.08947	0.28649	-\$0.00877	\$0.51608
(117)	Apr-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.10331	0.24701	-\$0.00877	\$0.49044
(118)	May-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.10328	0.19784	-\$0.00877	\$0.44124
(119)	Jun-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.08257	0.20116	-\$0.00877	\$0.42385
(120)	Jul-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.08257	0.27167	(\$0.00877)	\$0.49436
(121)	Aug-16	\$21.00	0.00519	\$0.02971	0.14370	0	\$0.00000	0.08257	0.27167	(\$0.00877)	\$0.49436
(122)	Sep-16	\$21.00	0.00519	\$0.02971	0.14370	0.02290	\$0.00000	0.08257	0.28716	\$0.00667	\$0.54829
(123)	Oct-16	\$21.00	0.00519	\$0.02971	0.14370	0.02290	\$0.00000	0.10278	0.29890	\$0.00667	\$0.58014
(124)	Nov-16	\$21.00	0.00519	\$0.02971	0.14370	0.02290	\$0.00000	0.06010	0.29045	\$0.00667	\$0.52901
(125)	Dec-16	\$21.00	0.00462	\$0.02949	0.17761	0.02290	\$0.00000	0.06765	0.33747	\$0.00667	\$0.61692
(126)											
(127)	Jan-17	\$21.00	0.00462	\$0.03481	0.18293	0.02290	\$0.00000	0.07320	0.39158	\$0.00667	\$0.68190
(128)	Feb-17	\$21.00	0.00462	\$0.03481	0.18293	0.02307	\$0.00000	0.07964	0.35473	\$0.00667	\$0.65166
(129)	Mar-17	\$21.00	0.00462	\$0.03481	0.18293	0.02307	\$0.00000	0.10078	0.27793	\$0.00667	\$0.59600
(130)	Apr-17	\$21.00	0.00462	\$0.03481	0.18293	0.02307	\$0.00000	0.10069	0.29496	\$0.00667	\$0.61294
(131)	May-17	\$21.00	0.00462	\$0.03481	0.18293	0.02307	\$0.00000	0.10069	0.29496	\$0.00667	\$0.61294
(132)	Jun-17	\$21.00	0.00462	\$0.03481	0.18293	0.02307	\$0.00000	0.08047	0.30480	\$0.00667	\$0.60256
(133)	Jul-17	\$21.00	0.00462	\$0.03481	0.18293	0.02307	\$0.00000	0.08047	\$0.28570	\$0.00667	\$0.58346
(134)	Aug-17	\$21.00	0.00462	\$0.03481	0.18293	0.02307	\$0.00000	0.08047	\$0.28114	\$0.00667	\$0.57890
(135)	Sep-17	\$21.00	0.00462	\$0.03481	0.18293	0.02508	\$0.00000	0.08047	\$0.28206	\$0.01565	\$0.59081
(136)	Oct-17	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.09299	\$0.27544	\$0.01565	\$0.59671
(137)	Nov-17	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.06015	\$0.30003	\$0.01565	\$0.58846
(138)	Dec-17	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.06016	\$0.32308	\$0.01565	\$0.61152
(139)											
(140)	Jan-18	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.06855	\$0.35606	\$0.01565	\$0.65289
(141)	Feb-18	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.06012	\$0.47097	\$0.01565	\$0.75937
(142)	Mar-18	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.07267	\$0.31275	\$0.01565	\$0.61370
(143)	Apr-18	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.10005	\$0.24237	\$0.01565	\$0.57070
(144)	May-18	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.06755	\$0.24132	\$0.01565	\$0.53715
(145)	Jun-18	\$21.00	0.00462	\$0.03974	0.18293	0.02508	\$0.00000	\$0.07996	\$0.25792	\$0.01565	\$0.56616

Commercial / Industrial C - Gas Rates

(A)	(B)	(C)	(D)	(E)	Delivery Charge / therm inc CIP (F)	CE/RD Rider / therm (G)	Demand Cost / therm (H)	Comdity Cost / therm (J)	GCR True-Up Cost / therm (K)	Total Effective Rate (L)
										(D+F+G+H+I+J+K)
(75)	Jan-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01229	\$0.07661	\$0.35846	\$0.00771	\$0.58327
(76)	Feb-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01229	\$0.08851	\$0.35698	\$0.00771	\$0.59369
(77)	Mar-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01323	\$0.09370	\$0.36412	\$0.00771	\$0.60508
(78)	Apr-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01323	\$0.06117	\$0.40909	\$0.00771	\$0.61752
(79)	May-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01323	\$0.05609	\$0.43017	\$0.00771	\$0.63352
(80)	Jun-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01323	\$0.07483	\$0.43017	\$0.00771	\$0.65226
(81)	Jul-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01323	\$0.07483	\$0.38208	\$0.00771	\$0.60417
(82)	Aug-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01323	\$0.07483	\$0.35753	\$0.00771	\$0.57962
(83)	Sep-13	\$43.00	\$0.00490	\$0.02070	\$0.14788	-\$0.01323	\$0.07483	\$0.37236	\$0.00177	\$0.58851
(84)	Oct-13	\$43.00	\$0.00490	\$0.03292	\$0.14788	-\$0.01323	\$0.07483	\$0.37628	\$0.00177	\$0.59243
(85)	Nov-13	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.01323	\$0.07360	\$0.39885	\$0.00177	\$0.60610
(86)	Dec-13	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.01323	\$0.07282	\$0.41183	\$0.00177	\$0.61830
(87)										
(88)	Jan-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.01323	\$0.05460	\$0.47594	\$0.00177	\$0.66419
(89)	Feb-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.01323	\$0.05566	\$0.55912	\$0.00177	\$0.74843
(90)	Mar-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.05071	\$0.87194	\$0.00177	\$1.06385
(91)	Apr-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.04993	\$0.58444	\$0.00177	\$0.77557
(92)	May-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.04968	\$0.45802	\$0.00177	\$0.64890
(93)	Jun-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.06624	\$0.47509	\$0.00177	\$0.68253
(94)	Jul-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.06624	\$0.47912	\$0.00177	\$0.68656
(95)	Aug-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.06624	\$0.39568	\$0.00177	\$0.60312
(96)	Sep-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.06624	\$0.41241	\$0.04083	\$0.65891
(97)	Oct-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.06965	\$0.43480	\$0.04083	\$0.68471
(98)	Nov-14	\$43.00	\$0.00490	\$0.02525	\$0.14021	-\$0.00568	\$0.09050	\$0.43991	\$0.04083	\$0.71067
(99)	Dec-14	\$43.00	\$0.00519	\$0.02508	\$0.14628	-\$0.00568	\$0.07360	\$0.49148	\$0.04083	\$0.75170
(100)										
(101)	Jan-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.06218	\$0.42198	\$0.04083	\$0.67870
(102)	Feb-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.07911	\$0.38562	\$0.04083	\$0.65927
(103)	Mar-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.06218	\$0.44036	\$0.04083	\$0.69708
(104)	Apr-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.09648	\$0.30646	\$0.04083	\$0.59748
(105)	May-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.10355	\$0.24666	\$0.04083	\$0.54475
(106)	Jun-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.08282	\$0.28942	\$0.04083	\$0.56678
(107)	Jul-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.08282	\$0.28077	\$0.04083	\$0.55813
(108)	Aug-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.08282	\$0.29164	\$0.04083	\$0.56900
(109)	Sep-15	\$43.00	\$0.00519	\$0.02732	\$0.14852	\$0.00000	\$0.08282	\$0.28063	-\$0.00877	\$0.50839
(110)	Oct-15	\$43.00	\$0.00519	\$0.02833	\$0.14852	\$0.00000	\$0.07791	\$0.27831	-\$0.00877	\$0.50116
(111)	Nov-15	\$43.00	\$0.00519	\$0.02833	\$0.14852	\$0.00000	\$0.07591	\$0.28243	-\$0.00877	\$0.50328
(112)	Dec-15	\$43.00	\$0.00519	\$0.02833	\$0.14852	\$0.00000	\$0.07588	\$0.29715	-\$0.00877	\$0.51797
(113)										
(114)	Jan-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	\$0.08518	\$0.29362	-\$0.00877	\$0.52512
(115)	Feb-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	\$0.07013	\$0.28608	-\$0.00877	\$0.50253
(116)	Mar-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	\$0.08947	\$0.28649	-\$0.00877	\$0.52228
(117)	Apr-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	\$0.10331	\$0.24701	-\$0.00877	\$0.49664
(118)	May-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	\$0.10328	\$0.19784	-\$0.00877	\$0.44744
(119)	Jun-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	\$0.08257	\$0.20116	-\$0.00877	\$0.43005
(120)	Jul-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	0.08257	0.27167	(\$0.00877)	\$0.50056
(121)	Aug-16	43.00	0.00519	\$0.02971	0.14990	\$0.00000	0.08257	0.27167	(\$0.00877)	\$0.50056
(122)	Sep-16	43.00	0.00519	\$0.02971	0.14990	0.01106	0.08267	0.28716	\$0.00667	\$0.54265
(123)	Oct-16	43.00	0.00519	\$0.02971	0.14990	0.01106	0.10278	0.2989	\$0.00667	\$0.57450
(124)	Nov-16	43.00	0.00519	\$0.02971	0.14990	0.01106	0.0601	0.29045	\$0.00667	\$0.52337
(125)	Dec-16	43.00	0.00462	\$0.02949	0.16450	0.01106	0.06765	0.33747	\$0.00667	\$0.59197
(126)										
(127)	Jan-17	43.00	0.00462	\$0.03481	0.16982	0.01106	0.0732	0.39158	\$0.00667	\$0.65695
(128)	Feb-17	43.00	0.00462	\$0.03481	0.16982	0.01254	0.07964	0.35473	\$0.00667	\$0.62802
(129)	Mar-17	43.00	0.00462	\$0.03481	0.16982	0.01254	0.10078	0.27793	\$0.00667	\$0.57236
(130)	Apr-17	43.00	0.00462	\$0.03481	0.16982	0.01254	0.10069	0.29496	\$0.00667	\$0.58930
(131)	May-17	43.00	0.00462	\$0.03481	0.16982	0.01254	0.10069	0.29496	\$0.00667	\$0.58930
(132)	Jun-17	43.00	0.00462	\$0.03481	0.16982	0.01254	0.08047	0.3048	\$0.00667	\$0.57892
(133)	Jul-17	43.00	0.00462	\$0.03481	0.16982	0.01254	\$0.08047	\$0.28570	0.00667	\$0.55982
(134)	Aug-17	43.00	0.00462	\$0.03481	0.16982	0.01254	\$0.08047	\$0.28114	0.00667	\$0.55526
(135)	Sep-17	43.00	0.00462	\$0.03481	0.16982	0.00284	\$0.08047	\$0.28206	0.01565	\$0.55546
(136)	Oct-17	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.09299	\$0.27544	0.01565	\$0.56136
(137)	Nov-17	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.06015	\$0.30003	0.01565	\$0.55311
(138)	Dec-17	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.06016	\$0.32308	0.01565	\$0.57617
(139)										
(140)	Jan-18	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.06855	\$0.35606	0.01565	\$0.61754
(141)	Feb-18	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.06012	\$0.47097	0.01565	\$0.72402
(142)	Mar-18	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.07267	\$0.31275	0.01565	\$0.57835
(143)	Apr-18	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.10005	\$0.24237	0.01565	\$0.53535
(144)	May-18	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.06755	\$0.24132	0.01565	\$0.50180
(145)	Jun-18	43.00	0.00462	\$0.03974	0.16982	0.00284	\$0.07996	\$0.25792	0.01565	\$0.53081

SVDF A - System + Transport

(A)	(B)	Basic Charge (C)	GAP / therm (D)	CIP / therm (E)	Delivery Charge / therm inc CIP (F)	RD Rider / therm (G)	Demand Cost / therm (H)	Comdity Cost / therm (J)	GCR True-Up Cost / therm (K)	Total Effective Rate (L) (D+F+G+H+I+J+K)
(1)	Jul-07	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.65457	\$0.01612	\$0.76331
(2)	Aug-07	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.56383	\$0.01612	\$0.67257
(3)	Sep-07	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.53249	\$0.01590	\$0.64101
(4)	Oct-07	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.61615	\$0.01590	\$0.72467
(5)	Nov-07	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.74990	\$0.01590	\$0.85842
(6)	Dec-07	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.81507	\$0.01590	\$0.92359
(7)										
(8)	Jan-08	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.77349	\$0.01590	\$0.88201
(9)	Feb-08	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.83925	\$0.01590	\$0.94777
(10)	Mar-08	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.89677	\$0.01590	\$1.00529
(11)	Apr-08	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$0.88924	\$0.01590	\$0.99776
(12)	May-08	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$1.02052	\$0.01590	\$1.12904
(13)	Jun-08	\$50.00	\$0.00000	\$0.00449	\$0.09262		\$0.00000	\$1.05175	\$0.01590	\$1.16027
(14)	Jul-08	\$50.00	\$0.00000	\$0.00449	\$0.09260		\$0.00000	\$1.19503	\$0.01590	\$1.30353
(15)	Aug-08	\$50.00	\$0.00000	\$0.00449	\$0.09260		\$0.00000	\$0.81732	\$0.01590	\$0.92582
(16)	Sep-08	\$50.00	\$0.00000	\$0.00449	\$0.09260		\$0.00000	\$0.72915	\$0.01208	\$0.83383
(17)	Oct-08	\$50.00	\$0.00000	\$0.00449	\$0.09260		\$0.00000	\$0.59437	\$0.01208	\$0.69905
(18)	Nov-08	\$50.00	\$0.00000	\$0.00449	\$0.09260		\$0.00000	\$0.63933	\$0.01208	\$0.74401
(19)	Dec-08	\$50.00	\$0.00000	\$0.00449	\$0.09260		\$0.00000	\$0.71392	\$0.01208	\$0.81860
(20)										
(21)	Jan-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.67605	\$0.01208	\$0.78073
(22)	Feb-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.57092	\$0.01208	\$0.67560
(23)	Mar-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.51098	\$0.01208	\$0.61566
(24)	Apr-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.40289	\$0.01208	\$0.50757
(25)	May-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.30456	\$0.01208	\$0.40924
(26)	Jun-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.30541	\$0.01208	\$0.41009
(27)	Jul-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.35093	\$0.01208	\$0.45561
(28)	Aug-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.34682	\$0.01208	\$0.45150
(29)	Sep-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.27993	-\$0.00253	\$0.37000
(30)	Oct-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.40176	-\$0.00253	\$0.49183
(31)	Nov-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.51434	-\$0.00253	\$0.60441
(32)	Dec-09	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.51540	-\$0.00253	\$0.60547
(33)										
(34)	Jan-10	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.61578	-\$0.00253	\$0.70585
(35)	Feb-10	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.58864	-\$0.00253	\$0.67871
(36)	Mar-10	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.51887	-\$0.00253	\$0.60894
(37)	Apr-10	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.40447	-\$0.00253	\$0.49454
(38)	May-10	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.40910	-\$0.00253	\$0.49917
(39)	Jun-10	\$50.00	\$0.00000	\$0.00644	\$0.09260		\$0.00000	\$0.41028	-\$0.00253	\$0.50035
(40)										
(41)										
(42)	Jul-10	\$60.00	\$0.00000	\$0.00644	\$0.09941	\$0.00000	\$0.00000	\$0.47577	-\$0.00253	\$0.57265
(43)	Aug-10	\$60.00	\$0.00000	\$0.00644	\$0.09941	\$0.00000	\$0.00000	\$0.45197	-\$0.00253	\$0.54885
(44)	Sep-10	\$60.00	\$0.00000	\$0.00644	\$0.09941	\$0.00000	\$0.00000	\$0.35712	\$0.01949	\$0.47602
(45)	Oct-10	\$60.00	\$0.00000	\$0.00644	\$0.09941	\$0.00000	\$0.00000	\$0.40453	\$0.01949	\$0.52343
(46)	Nov-10	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.38083	\$0.01949	\$0.50869
(47)	Dec-10	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.46914	\$0.01949	\$0.59700
(48)										
(49)	Jan-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.45851	\$0.01949	\$0.58637
(50)	Feb-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.47719	\$0.01949	\$0.60505
(51)	Mar-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.42684	\$0.01949	\$0.55470
(52)	Apr-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.45826	\$0.01949	\$0.58612
(53)	May-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.44420	\$0.01949	\$0.57206
(54)	Jun-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.44390	\$0.01949	\$0.57176
(55)	Jul-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.43786	\$0.01949	\$0.56572
(56)	Aug-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.44628	\$0.01949	\$0.57414
(57)	Sep-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.40722	\$0.00381	\$0.51940
(58)	Oct-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.39965	\$0.00381	\$0.51183
(59)	Nov-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.40964	\$0.00381	\$0.52182
(60)	Dec-11	\$60.00	\$0.00000	\$0.01540	\$0.10837	\$0.00000	\$0.00000	\$0.39961	\$0.00381	\$0.51179
(61)										
(62)	Jan-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.37468	\$0.00381	\$0.48771
(63)	Feb-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.34089	\$0.00381	\$0.45392
(64)	Mar-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.33867	\$0.00381	\$0.45170
(65)	Apr-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.23823	\$0.00381	\$0.35126
(66)	May-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.20267	\$0.00381	\$0.31570
(67)	Jun-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.26721	\$0.00381	\$0.38024
(68)	Jul-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.28179	\$0.00381	\$0.39482
(69)	Aug-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.32179	\$0.00381	\$0.43482
(70)	Sep-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.27621	\$0.01919	\$0.40462
(71)	Oct-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.31313	\$0.01919	\$0.44154
(72)	Nov-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.38789	\$0.01919	\$0.51630
(73)	Dec-12	\$60.00	\$0.00000	\$0.01625	\$0.10922	\$0.00000	\$0.00000	\$0.40921	\$0.01919	\$0.53762
(74)										
(75)	Jan-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.37490	\$0.01919	\$0.50776
(76)	Feb-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.37342	\$0.01919	\$0.50628

SVDF A - System + Transport

		Basic Charge	GAP / therm	CIP / therm	Delivery Charge / therm inc CIP	RD Rider / therm	Demand Cost / therm	Comdity Cost / therm	GCR True-Up Cost / therm	Total Effective Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L)
										(D+F+G+H+I+J+K)
(77)	Mar-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.38056	\$0.01919	\$0.51342
(78)	Apr-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.40909	\$0.01919	\$0.54195
(79)	May-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.43017	\$0.01919	\$0.56303
(80)	Jun-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.42815	\$0.01919	\$0.56101
(81)	Jul-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.38208	\$0.01919	\$0.51494
(82)	Aug-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.35753	\$0.01919	\$0.49039
(83)	Sep-13	\$60.00	\$0.00000	\$0.02070	\$0.11367	\$0.00000	\$0.00000	\$0.37236	\$0.01376	\$0.49979
(84)	Oct-13	\$60.00	\$0.00000	\$0.03292	\$0.11367	\$0.00000	\$0.00000	\$0.37628	\$0.01376	\$0.50371
(85)	Nov-13	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.41584	\$0.01376	\$0.53560
(86)	Dec-13	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.42882	\$0.01376	\$0.54858
(87)										
(88)	Jan-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.49293	\$0.01376	\$0.61269
(89)	Feb-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.57611	\$0.01376	\$0.69587
(90)	Mar-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.88893	\$0.01376	\$1.00869
(91)	Apr-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.58444	\$0.01376	\$0.70420
(92)	May-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.45802	\$0.01376	\$0.57778
(93)	Jun-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.47509	\$0.01376	\$0.59485
(94)	Jul-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.47912	\$0.01376	\$0.59888
(95)	Aug-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.39568	\$0.01376	\$0.51544
(96)	Sep-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.41241	\$0.03155	\$0.54996
(97)	Oct-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.43480	\$0.03155	\$0.57235
(98)	Nov-14	\$60.00	\$0.00000	\$0.02525	\$0.10600	\$0.00000	\$0.00000	\$0.45767	\$0.03155	\$0.59522
(99)	Dec-14	\$50.00	\$0.00000	\$0.02508	\$0.12068	\$0.00000	\$0.00000	\$0.50924	\$0.03155	\$0.66147
(100)										
(101)	Jan-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.43974	\$0.03155	\$0.59421
(102)	Feb-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.40338	\$0.03155	\$0.55785
(103)	Mar-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.45812	\$0.03155	\$0.61259
(104)	Apr-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.30646	\$0.03155	\$0.46093
(105)	May-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.24666	\$0.03155	\$0.40113
(106)	Jun-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.28942	\$0.03155	\$0.44389
(107)	Jul-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.28077	\$0.03155	\$0.43524
(108)	Aug-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.29164	\$0.03155	\$0.44611
(109)	Sep-15	\$50.00	\$0.00000	\$0.02732	\$0.12292	\$0.00000	\$0.00000	\$0.28063	\$0.00598	\$0.40953
(110)	Oct-15	\$50.00	\$0.00000	\$0.02833	\$0.12292	\$0.00000	\$0.00000	\$0.27831	\$0.00598	\$0.40721
(111)	Nov-15	\$50.00	\$0.00000	\$0.02833	\$0.12292	\$0.00000	\$0.00000	\$0.29961	\$0.00598	\$0.42851
(112)	Dec-15	\$50.00	\$0.00000	\$0.02833	\$0.12292	\$0.00000	\$0.00000	\$0.31433	\$0.00598	\$0.44323
(113)										
(114)	Jan-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.31080	\$0.00598	\$0.44108
(115)	Feb-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.30326	\$0.00598	\$0.43354
(116)	Mar-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.30367	\$0.00598	\$0.43395
(117)	Apr-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.24701	\$0.00598	\$0.37729
(118)	May-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.19784	\$0.00598	\$0.32812
(119)	Jun-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.20116	\$0.00598	\$0.33144
(120)	Jul-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.27167	\$0.00598	\$0.40195
(121)	Aug-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.00000	\$0.00000	\$0.27167	\$0.00598	\$0.40195
(122)	Sep-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.01316	\$0.00000	\$0.28716	\$0.00901	\$0.43363
(123)	Oct-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.01316	\$0.00000	\$0.29890	\$0.00901	\$0.44537
(124)	Nov-16	\$50.00	\$0.00000	\$0.02971	\$0.12430	\$0.01316	\$0.00000	\$0.30734	\$0.00901	\$0.45381
(125)	Dec-16	\$50.00	\$0.00000	\$0.02949	\$0.13476	\$0.01316	\$0.00000	\$0.35436	\$0.00901	\$0.51129
(126)										
(127)	Jan-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01382	\$0.00000	\$0.40847	\$0.00901	\$0.57072
(128)	Feb-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01017	\$0.00000	\$0.37162	\$0.00901	\$0.53088
(129)	Mar-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01017	\$0.00000	\$0.29482	\$0.00901	\$0.45408
(130)	Apr-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01017	\$0.00000	\$0.29496	\$0.00901	\$0.45422
(131)	May-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01017	\$0.00000	\$0.29496	\$0.00901	\$0.45422
(132)	Jun-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01017	\$0.00000	\$0.30480	\$0.00901	\$0.46406
(133)	Jul-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01017	\$0.00000	\$0.28570	\$0.00901	\$0.44496
(134)	Aug-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01017	\$0.00000	\$0.28114	\$0.00901	\$0.44040
(135)	Sep-17	\$50.00	\$0.00000	\$0.03481	\$0.14008	\$0.01382	\$0.00000	\$0.28206	\$0.01509	\$0.45105
(136)	Oct-17	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.27544	\$0.01509	\$0.44443
(137)	Nov-17	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.31791	\$0.01509	\$0.48690
(138)	Dec-17	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.34096	\$0.01509	\$0.50995
(139)										
(140)	Jan-18	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.37394	\$0.01509	\$0.54293
(141)	Feb-18	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.48885	\$0.01509	\$0.65784
(142)	Mar-18	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.33063	\$0.01509	\$0.49962
(143)	Apr-18	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.24237	\$0.01509	\$0.41136
(144)	May-18	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.24132	\$0.01509	\$0.41031
(145)	Jun-18	\$50.00	\$0.00000	\$0.03974	\$0.14008	\$0.01382	\$0.00000	\$0.25792	\$0.01509	\$0.42691

SVDF B - System + Transport

(A)	(B)	Basic Charge (C)	GAP / therm (D)	CIP / therm (E)	Delivery Charge / therm inc CIP (F)	RD Rider / therm (G)	Demand Cost / therm (H)	Comdity Cost / therm (J)	GCR True-Up Cost / therm (K)	Total Effective Rate (L) (D+F+G+H+I+J+K)
(1)	Jul-07	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.65457	\$0.01612	\$0.75703
(2)	Aug-07	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.56383	\$0.01612	\$0.66629
(3)	Sep-07	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.53249	\$0.01590	\$0.63473
(4)	Oct-07	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.61615	\$0.01590	\$0.71839
(5)	Nov-07	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.74990	\$0.01590	\$0.85214
(6)	Dec-07	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.81507	\$0.01590	\$0.91731
(7)										
(8)	Jan-08	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.77349	\$0.01590	\$0.87573
(9)	Feb-08	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.83925	\$0.01590	\$0.94149
(10)	Mar-08	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.89677	\$0.01590	\$0.99901
(11)	Apr-08	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$0.88924	\$0.01590	\$0.99148
(12)	May-08	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$1.02052	\$0.01590	\$1.12276
(13)	Jun-08	\$75.00	\$0.00000	\$0.00449	\$0.08634		\$0.00000	\$1.05175	\$0.01590	\$1.15399
(14)	Jul-08	\$75.00	\$0.00000	\$0.00449	\$0.08633		\$0.00000	\$1.19503	\$0.01590	\$1.29726
(15)	Aug-08	\$75.00	\$0.00000	\$0.00449	\$0.08633		\$0.00000	\$0.81732	\$0.01590	\$0.91955
(16)	Sep-08	\$75.00	\$0.00000	\$0.00449	\$0.08633		\$0.00000	\$0.72915	\$0.01208	\$0.82756
(17)	Oct-08	\$75.00	\$0.00000	\$0.00449	\$0.08633		\$0.00000	\$0.59437	\$0.01208	\$0.69278
(18)	Nov-08	\$75.00	\$0.00000	\$0.00449	\$0.08633		\$0.00000	\$0.63933	\$0.01208	\$0.73774
(19)	Dec-08	\$75.00	\$0.00000	\$0.00449	\$0.08633		\$0.00000	\$0.71392	\$0.01208	\$0.81233
(20)										
(21)	Jan-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.67605	\$0.01208	\$0.77446
(22)	Feb-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.57092	\$0.01208	\$0.66933
(23)	Mar-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.51098	\$0.01208	\$0.60939
(24)	Apr-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.40289	\$0.01208	\$0.50130
(25)	May-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.30456	\$0.01208	\$0.40297
(26)	Jun-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.30541	\$0.01208	\$0.40382
(27)	Jul-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.35093	\$0.01208	\$0.44934
(28)	Aug-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.34682	\$0.01208	\$0.44523
(29)	Sep-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.27993	-\$0.00253	\$0.36373
(30)	Oct-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.40176	-\$0.00253	\$0.48556
(31)	Nov-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.51434	-\$0.00253	\$0.59814
(32)	Dec-09	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.51540	-\$0.00253	\$0.59920
(33)										
(34)	Jan-10	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.61578	-\$0.00253	\$0.69958
(35)	Feb-10	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.58864	-\$0.00253	\$0.67244
(36)	Mar-10	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.51887	-\$0.00253	\$0.60267
(37)	Apr-10	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.40447	-\$0.00253	\$0.48827
(38)	May-10	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.40910	-\$0.00253	\$0.49290
(39)	Jun-10	\$75.00	\$0.00000	\$0.00644	\$0.08633		\$0.00000	\$0.41028	-\$0.00253	\$0.49408
(40)										
(41)										
(42)	Jul-10	\$90.00	\$0.00000	\$0.00644	\$0.09420	\$0.00000	\$0.00000	\$0.47577	-\$0.00253	\$0.56744
(43)	Aug-10	\$90.00	\$0.00000	\$0.00644	\$0.09420	\$0.00000	\$0.00000	\$0.45197	-\$0.00253	\$0.54364
(44)	Sep-10	\$90.00	\$0.00000	\$0.00644	\$0.09420	\$0.00000	\$0.00000	\$0.35712	\$0.01949	\$0.47081
(45)	Oct-10	\$90.00	\$0.00000	\$0.00644	\$0.09420	\$0.00000	\$0.00000	\$0.40453	\$0.01949	\$0.51822
(46)	Nov-10	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.38083	\$0.01949	\$0.50348
(47)	Dec-10	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.46914	\$0.01949	\$0.59179
(48)										
(49)	Jan-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.45851	\$0.01949	\$0.58116
(50)	Feb-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.47719	\$0.01949	\$0.59984
(51)	Mar-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.42684	\$0.01949	\$0.54949
(52)	Apr-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.45826	\$0.01949	\$0.58091
(53)	May-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.44420	\$0.01949	\$0.56685
(54)	Jun-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.44390	\$0.01949	\$0.56655
(55)	Jul-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.43786	\$0.01949	\$0.56051
(56)	Aug-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.44628	\$0.01949	\$0.56893
(57)	Sep-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.40722	\$0.00381	\$0.51419
(58)	Oct-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.39965	\$0.00381	\$0.50662
(59)	Nov-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.40964	\$0.00381	\$0.51661
(60)	Dec-11	\$90.00	\$0.00000	\$0.01540	\$0.10316	\$0.00000	\$0.00000	\$0.39961	\$0.00381	\$0.50658
(61)										
(62)	Jan-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.37468	\$0.00381	\$0.48250
(63)	Feb-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.34089	\$0.00381	\$0.44871
(64)	Mar-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.33867	\$0.00381	\$0.44649
(65)	Apr-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.23823	\$0.00381	\$0.34605
(66)	May-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.20267	\$0.00381	\$0.31049
(67)	Jun-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.26721	\$0.00381	\$0.37503
(68)	Jul-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.28179	\$0.00381	\$0.38961
(69)	Aug-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.32179	\$0.00381	\$0.42961
(70)	Sep-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.27621	\$0.01919	\$0.39941
(71)	Oct-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.31313	\$0.01919	\$0.43633
(72)	Nov-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.38789	\$0.01919	\$0.51109
(73)	Dec-12	\$90.00	\$0.00000	\$0.01625	\$0.10401	\$0.00000	\$0.00000	\$0.40921	\$0.01919	\$0.53241
(74)										
(75)	Jan-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.37490	\$0.01919	\$0.50255
(76)	Feb-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.37342	\$0.01919	\$0.50107
(77)	Mar-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.38056	\$0.01919	\$0.50821
(78)	Apr-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.40909	\$0.01919	\$0.53674

SVDF B - System + Transport

		Basic Charge	GAP / therm	CIP / therm	Delivery Charge / therm inc CIP	RD Rider / therm	Demand Cost / therm	Comdity Cost / therm	GCR True-Up Cost / therm	Total Effective Rate
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L) (D+F+G+H+I+J+K)
(79)	May-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.43017	\$0.01919	\$0.55782
(80)	Jun-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.42815	\$0.01919	\$0.55580
(81)	Jul-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.38208	\$0.01919	\$0.50973
(82)	Aug-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.35753	\$0.01919	\$0.48518
(83)	Sep-13	\$90.00	\$0.00000	\$0.02070	\$0.10846	\$0.00000	\$0.00000	\$0.37236	\$0.01376	\$0.49458
(84)	Oct-13	\$90.00	\$0.00000	\$0.03292	\$0.10846	\$0.00000	\$0.00000	\$0.37628	\$0.01376	\$0.49850
(85)	Nov-13	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.41584	\$0.01376	\$0.53039
(86)	Dec-13	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.42882	\$0.01376	\$0.54337
(87)										
(88)	Jan-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.49293	\$0.01376	\$0.60748
(89)	Feb-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.57611	\$0.01376	\$0.69066
(90)	Mar-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.88893	\$0.01376	\$1.00348
(91)	Apr-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.58444	\$0.01376	\$0.69899
(92)	May-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.45802	\$0.01376	\$0.57257
(93)	Jun-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.47509	\$0.01376	\$0.58964
(94)	Jul-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.47912	\$0.01376	\$0.59367
(95)	Aug-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.39568	\$0.01376	\$0.51023
(96)	Sep-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.41241	\$0.03155	\$0.54475
(97)	Oct-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.43480	\$0.03155	\$0.56714
(98)	Nov-14	\$90.00	\$0.00000	\$0.02525	\$0.10079	\$0.00000	\$0.00000	\$0.45767	\$0.03155	\$0.59001
(99)	Dec-14	\$80.00	\$0.00000	\$0.02508	\$0.11356	\$0.00000	\$0.00000	\$0.50924	\$0.03155	\$0.65435
(100)										
(101)	Jan-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.43974	\$0.03155	\$0.58709
(102)	Feb-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.40338	\$0.03155	\$0.55073
(103)	Mar-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.45812	\$0.03155	\$0.60547
(104)	Apr-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.30646	\$0.03155	\$0.45381
(105)	May-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.24666	\$0.03155	\$0.39401
(106)	Jun-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.28942	\$0.03155	\$0.43677
(107)	Jul-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.28077	\$0.03155	\$0.42812
(108)	Aug-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.29164	\$0.03155	\$0.43899
(109)	Sep-15	\$80.00	\$0.00000	\$0.02732	\$0.11580	\$0.00000	\$0.00000	\$0.28063	\$0.00598	\$0.40241
(110)	Oct-15	\$80.00	\$0.00000	\$0.02833	\$0.11580	\$0.00000	\$0.00000	\$0.27831	\$0.00598	\$0.40009
(111)	Nov-15	\$80.00	\$0.00000	\$0.02833	\$0.11580	\$0.00000	\$0.00000	\$0.29961	\$0.00598	\$0.42139
(112)	Dec-15	\$80.00	\$0.00000	\$0.02833	\$0.11580	\$0.00000	\$0.00000	\$0.31433	\$0.00598	\$0.43611
(113)										
(114)	Jan-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.31080	0.00598	\$0.43396
(115)	Feb-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.30326	0.00598	\$0.42642
(116)	Mar-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.30367	0.00598	\$0.42683
(117)	Apr-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.24701	0.00598	\$0.37017
(118)	May-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.19784	0.00598	\$0.32100
(119)	Jun-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.20116	0.00598	\$0.32432
(120)	Jul-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.27167	0.00598	\$0.39483
(121)	Aug-16	80.00	0.00000	0.02971	0.11718	0.00000	0.00000	0.27167	0.00598	\$0.39483
(122)	Sep-16	80.00	0.00000	0.02971	0.11718	0.01184	0.00000	0.28716	0.00901	\$0.42519
(123)	Oct-16	80.00	0.00000	0.02971	0.11718	0.01184	0.00000	0.29890	0.00901	\$0.43693
(124)	Nov-16	80.00	0.00000	0.02971	0.11718	0.01184	0.00000	0.30734	0.00901	\$0.44537
(125)	Dec-16	80.00	0.00000	0.02949	0.12474	0.01184	0.00000	0.35436	0.00901	\$0.49995
(126)										
(127)	Jan-17	80.00	0.00000	0.03481	0.13006	0.01184	0.00000	0.40847	0.00901	\$0.55938
(128)	Feb-17	80.00	0.00000	0.03481	0.13006	0.00827	0.00000	0.37162	0.00901	\$0.51896
(129)	Mar-17	80.00	0.00000	0.03481	0.13006	0.00827	0.00000	0.29482	0.00901	\$0.44216
(130)	Apr-17	80.00	0.00000	0.03481	0.13006	0.00827	0.00000	0.29496	0.00901	\$0.44230
(131)	May-17	80.00	0.00000	0.03481	0.13006	0.00827	0.00000	0.29496	0.00901	\$0.44230
(132)	Jun-17	80.00	0.00000	0.03481	0.13006	0.00827	0.00000	0.30480	0.00901	\$0.45214
(133)	Jul-17	80.00	0.00000	\$0.03481	0.13006	0.00827	0.00000	0.28570	0.00901	\$0.43304
(134)	Aug-17	80.00	0.00000	\$0.03481	0.13006	0.00827	0.00000	0.28114	0.00901	\$0.42848
(135)	Sep-17	80.00	0.00000	\$0.03481	0.13006	0.00990	0.00000	0.28206	0.01509	\$0.43711
(136)	Oct-17	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	0.27544	0.01509	\$0.43049
(137)	Nov-17	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	0.31791	0.01509	\$0.47296
(138)	Dec-17	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	0.34096	0.01509	\$0.49601
(139)										
(140)	Jan-18	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	\$0.37394	0.01509	\$0.52899
(141)	Feb-18	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	\$0.48885	0.01509	\$0.64390
(142)	Mar-18	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	\$0.33063	0.01509	\$0.48568
(143)	Apr-18	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	\$0.24237	0.01509	\$0.39742
(144)	May-18	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	\$0.24132	0.01509	\$0.39637
(145)	Jun-18	80.00	0.00000	\$0.03974	0.13006	0.00990	0.00000	\$0.25792	0.01509	\$0.41297

Large Volume

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L) (D+F+G+H+I+J+K)
		Basic Charge	GAP / therm	CIP / therm	Delivery Charge / therm inc CIP	RD Rider / therm	Demand Cost / therm	Comdity Cost / therm	GCR True-Up Cost / therm	Total Effective Rate
(1)	Jul-07	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.65457	\$0.01805	\$0.71532
(2)	Aug-07	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.56383	\$0.01805	\$0.62458
(3)	Sep-07	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.53249	\$0.01894	\$0.59413
(4)	Oct-07	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.61615	\$0.01894	\$0.67779
(5)	Nov-07	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.74990	\$0.01894	\$0.81154
(6)	Dec-07	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.81507	\$0.01894	\$0.87671
(7)										
(8)	Jan-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.77349	\$0.01894	\$0.83513
(9)	Feb-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.83925	\$0.01894	\$0.90089
(10)	Mar-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.89677	\$0.01894	\$0.95841
(11)	Apr-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.88924	\$0.01894	\$0.95088
(12)	May-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$1.02052	\$0.01894	\$1.08216
(13)	Jun-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$1.05175	\$0.01894	\$1.11339
(14)	Jul-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$1.19503	\$0.01894	\$1.25667
(15)	Aug-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.81732	\$0.01894	\$0.87896
(16)	Sep-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.72915	\$0.01144	\$0.78329
(17)	Oct-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.59437	\$0.01144	\$0.64851
(18)	Nov-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.63933	\$0.01144	\$0.69347
(19)	Dec-08	\$400.00	\$0.00000	\$0.00449	\$0.04270		\$0.00000	\$0.71392	\$0.01144	\$0.76806
(20)										
(21)	Jan-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.67605	\$0.01144	\$0.73019
(22)	Feb-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.57092	\$0.01144	\$0.62506
(23)	Mar-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.51098	\$0.01144	\$0.56512
(24)	Apr-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.40289	\$0.01144	\$0.45703
(25)	May-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.30456	\$0.01144	\$0.35870
(26)	Jun-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.30541	\$0.01144	\$0.35955
(27)	Jul-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.35093	\$0.01144	\$0.40507
(28)	Aug-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.34682	\$0.01144	\$0.40096
(29)	Sep-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.27993	\$0.00188	\$0.32451
(30)	Oct-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.40176	\$0.00118	\$0.44564
(31)	Nov-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.51434	\$0.00118	\$0.55822
(32)	Dec-09	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.51540	\$0.00118	\$0.55928
(33)										
(34)	Jan-10	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.61578	\$0.00118	\$0.65966
(35)	Feb-10	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.58864	\$0.00118	\$0.63252
(36)	Mar-10	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.51887	\$0.00118	\$0.56275
(37)	Apr-10	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.40447	\$0.00118	\$0.44835
(38)	May-10	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.40910	\$0.00118	\$0.45298
(39)	Jun-10	\$400.00	\$0.00000	\$0.00644	\$0.04270		\$0.00000	\$0.41028	\$0.00118	\$0.45416
(40)										
(41)										
(42)	Jul-10	\$600.00	\$0.00000	\$0.00644	\$0.04270	\$0.00000	\$0.00000	\$0.47577	\$0.00118	\$0.51965
(43)	Aug-10	\$600.00	\$0.00000	\$0.00644	\$0.04270	\$0.00000	\$0.00000	\$0.45197	\$0.00118	\$0.49585
(44)	Sep-10	\$600.00	\$0.00000	\$0.00644	\$0.04270	\$0.00000	\$0.00000	\$0.35712	\$0.02466	\$0.42448
(45)	Oct-10	\$600.00	\$0.00000	\$0.00644	\$0.04270	\$0.00000	\$0.00000	\$0.40453	\$0.02466	\$0.47189
(46)	Nov-10	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.38083	\$0.02466	\$0.45715
(47)	Dec-10	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.46914	\$0.02466	\$0.54546
(48)										
(49)	Jan-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.45851	\$0.02466	\$0.53483
(50)	Feb-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.47719	\$0.02466	\$0.55351
(51)	Mar-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.42684	\$0.02466	\$0.50316
(52)	Apr-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.45826	\$0.02466	\$0.53458
(53)	May-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.44420	\$0.02466	\$0.52052
(54)	Jun-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.44390	\$0.02466	\$0.52022
(55)	Jul-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.43786	\$0.02466	\$0.51418
(56)	Aug-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.44628	\$0.02466	\$0.52260
(57)	Sep-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.40722	\$0.00531	\$0.46419
(58)	Oct-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.39965	\$0.00531	\$0.45662
(59)	Nov-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.40964	\$0.00531	\$0.46661
(60)	Dec-11	\$600.00	\$0.00000	\$0.01540	\$0.05166	\$0.00000	\$0.00000	\$0.39961	\$0.00531	\$0.45658
(61)										
(62)	Jan-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.37468	\$0.00531	\$0.43250
(63)	Feb-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.34089	\$0.00531	\$0.39871
(64)	Mar-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.33867	\$0.00531	\$0.39649
(65)	Apr-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.23823	\$0.00531	\$0.29605
(66)	May-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.20267	\$0.00531	\$0.26049
(67)	Jun-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.26721	\$0.00531	\$0.32503
(68)	Jul-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.28179	\$0.00531	\$0.33961
(69)	Aug-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.32179	\$0.00381	\$0.37811
(70)	Sep-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.27621	\$0.01327	\$0.34199
(71)	Oct-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.31313	\$0.01327	\$0.37891
(72)	Nov-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.37145	\$0.01327	\$0.43723
(73)	Dec-12	\$600.00	\$0.00000	\$0.01625	\$0.05251	\$0.00000	\$0.00000	\$0.39277	\$0.01327	\$0.45855
(74)										
(75)	Jan-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.35846	\$0.01327	\$0.42869
(76)	Feb-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.35698	\$0.01327	\$0.42721

Large Volume

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L)
		Basic Charge	GAP / therm	CIP / therm	Delivery Charge / therm inc CIP	RD Rider / therm	Demand Cost / therm	Comdity Cost / therm	GCR True-Up Cost / therm	Total Effective Rate
(77)	Mar-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.36412	\$0.01327	\$0.43435
(78)	Apr-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.40909	\$0.01327	\$0.47932
(79)	May-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.43017	\$0.01327	\$0.50040
(80)	Jun-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.42815	\$0.01327	\$0.49838
(81)	Jul-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.38208	\$0.01327	\$0.45231
(82)	Aug-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.35753	\$0.01327	\$0.42776
(83)	Sep-13	\$600.00	\$0.00000	\$0.02070	\$0.05696	\$0.00000	\$0.00000	\$0.37236	\$0.00716	\$0.43648
(84)	Oct-13	\$600.00	\$0.00000	\$0.03292	\$0.05696	\$0.00000	\$0.00000	\$0.37628	\$0.00716	\$0.44040
(85)	Nov-13	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.39885	\$0.00716	\$0.45530
(86)	Dec-13	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.41183	\$0.00716	\$0.46828
(87)										
(88)	Jan-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.47594	\$0.00716	\$0.53239
(89)	Feb-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.55912	\$0.00716	\$0.61557
(90)	Mar-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.87194	\$0.00716	\$0.92839
(91)	Apr-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.58444	\$0.00716	\$0.64089
(92)	May-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.45802	\$0.00716	\$0.51447
(93)	Jun-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.47509	\$0.00716	\$0.53154
(94)	Jul-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.47912	\$0.00716	\$0.53557
(95)	Aug-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.39568	\$0.00716	\$0.45213
(96)	Sep-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.41241	\$0.04131	\$0.50301
(97)	Oct-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.43480	\$0.04131	\$0.52540
(98)	Nov-14	\$600.00	\$0.00000	\$0.02525	\$0.04929	\$0.00000	\$0.00000	\$0.43991	\$0.04131	\$0.53051
(99)	Dec-14	\$800.00	\$0.00000	\$0.02508	\$0.05693	\$0.00000	\$0.00000	\$0.49148	\$0.04131	\$0.58972
(100)										
(101)	Jan-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.42198	\$0.04131	\$0.52246
(102)	Feb-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.38562	\$0.04131	\$0.48610
(103)	Mar-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.44036	\$0.04131	\$0.54084
(104)	Apr-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.30646	\$0.04131	\$0.40694
(105)	May-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.24666	\$0.04131	\$0.34714
(106)	Jun-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.28942	\$0.04131	\$0.38990
(107)	Jul-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.28077	\$0.04131	\$0.38125
(108)	Aug-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.29164	\$0.04131	\$0.39212
(109)	Sep-15	\$800.00	\$0.00000	\$0.02732	\$0.05917	\$0.00000	\$0.00000	\$0.28063	\$0.05158	\$0.39138
(110)	Oct-15	\$800.00	\$0.00000	\$0.02833	\$0.05917	\$0.00000	\$0.00000	\$0.27831	\$0.05158	\$0.38906
(111)	Nov-15	\$800.00	\$0.00000	\$0.02833	\$0.05917	\$0.00000	\$0.00000	\$0.28243	\$0.05158	\$0.39318
(112)	Dec-15	\$800.00	\$0.00000	\$0.02833	\$0.05917	\$0.00000	\$0.00000	\$0.29715	\$0.05158	\$0.40790
(113)										
(114)	Jan-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.29362	\$0.05158	\$0.40575
(115)	Feb-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.28608	\$0.05158	\$0.39821
(116)	Mar-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.28649	\$0.05158	\$0.39862
(117)	Apr-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.24701	\$0.05158	\$0.35914
(118)	May-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.19784	\$0.05158	\$0.30997
(119)	Jun-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.20116	\$0.05158	\$0.31329
(120)	Jul-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.27167	\$0.05158	\$0.38380
(121)	Aug-16	\$800.00	\$0.00000	\$0.02971	\$0.06055		\$0.00000	\$0.27167	\$0.05158	\$0.38380
(122)	Sep-16	\$800.00	\$0.00000	\$0.02971	\$0.06055	\$0.00268	\$0.00000	\$0.28716	\$0.02320	\$0.37359
(123)	Oct-16	\$800.00	\$0.00000	\$0.02971	\$0.06055	\$0.00268	\$0.00000	\$0.29890	\$0.02320	\$0.38533
(124)	Nov-16	\$800.00	\$0.00000	\$0.02971	\$0.06055	\$0.00268	\$0.00000	\$0.29045	\$0.02320	\$0.37688
(125)	Dec-16	\$800.00	\$0.00000	\$0.02949	\$0.08278	\$0.00268	\$0.00000	\$0.33747	\$0.02320	\$0.44613
(126)										
(127)	Jan-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00268	\$0.00000	\$0.39158	\$0.02320	\$0.50556
(128)	Feb-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00313	\$0.00000	\$0.35473	\$0.02320	\$0.46916
(129)	Mar-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00313	\$0.00000	\$0.27793	\$0.02320	\$0.39236
(130)	Apr-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00313	\$0.00000	\$0.29496	\$0.02320	\$0.40939
(131)	May-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00313	\$0.00000	\$0.29496	\$0.02320	\$0.40939
(132)	Jun-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00313	\$0.00000	\$0.30480	\$0.02320	\$0.41923
(133)	Jul-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00313	\$0.00000	\$0.28570	\$0.02320	\$0.40013
(134)	Aug-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00313	\$0.00000	\$0.28114	\$0.02320	\$0.39557
(135)	Sep-17	\$800.00	\$0.00000	\$0.03481	\$0.08810	\$0.00037	\$0.00000	\$0.28206	\$0.00402	\$0.37455
(136)	Oct-17	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.27544	\$0.00402	\$0.36793
(137)	Nov-17	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.30003	\$0.00402	\$0.39252
(138)	Dec-17	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.32308	\$0.00402	\$0.41557
(139)										
(140)	Jan-18	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.35606	\$0.00402	\$0.44855
(141)	Feb-18	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.47097	\$0.00402	\$0.56346
(142)	Mar-18	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.31275	\$0.00402	\$0.40524
(143)	Apr-18	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.24237	\$0.00402	\$0.33486
(144)	May-18	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.24132	\$0.00402	\$0.33381
(145)	Jun-18	\$800.00	\$0.00000	\$0.03974	\$0.08810	\$0.00037	\$0.00000	\$0.25792	\$0.00402	\$0.35041

Attachment E-9. Customer Migration between Rate Classes

Analysis of Annual migration and effect on latest rate case use per customer.
2013 Rate case use per customer adjusted for the 2017 Annual Review.

<u>Comm/Ind-A</u>			
	<u>Customers</u>	<u>Dekatherms</u>	<u>Use/Cust.</u>
A to B	-2,138	-3,724,209	1741.9
A to C	-104	-885,448	8513.9
B to A	1,438	1,314,569	914.2
C to A	160	78,869	492.9
2017 Change	-644	-3,216,219	
2015 Rate Case	<u>28,961</u>	<u>2,231,747</u>	77.1
UPC Impact	28,317	-984,472	-34.8

<u>Comm/Ind-B</u>			
	<u>Customers</u>	<u>Dekatherms</u>	<u>Use/Cust.</u>
B to A	-1,438	-1,314,569	914.2
B to C	-1,283	-7,286,071	5678.9
A to B	2,138	3,724,209	1741.9
C to B	829	2,965,900	3577.7
2017 Change	<u>246</u>	<u>-1,910,531</u>	
2015 Rate Case	<u>19,602</u>	<u>5,891,201</u>	300.5
UPC Impact	19,848	3,980,670	200.6

<u>Comm/Ind-C</u>			
	<u>Customers</u>	<u>Dekatherms</u>	<u>Use/Cust.</u>
C to A	-160	-78,869	492.9
C to B	-829	-2,965,900	3577.7
A to C	104	885,448	8513.9
B to C	1,283	7,286,071	5678.9
2017 Change	<u>398</u>	<u>5,126,750</u>	
2015 Rate Case	<u>18,783</u>	<u>28,718,742</u>	1529.0
UPC Impact	19,181	33,845,492	1764.5

Reports from Credit Rating Agencies – Summary

Notes:

- Includes reports from 2014, 2015, 2016 and year-to-date 2017
- Credit Rating Agency Reports that did not mention “CenterPoint Energy” and “decoupling” or “decoupler” were not included

2014 Findings

- Standard & Poor’s Rating Services. RatingsDirect CenterPoint Energy Resources Corp. December 30, 2014.
“The gas distribution operations benefit from various regulatory mechanisms that contribute to cash flow stability and allow the regulated gas distribution operations to earn closer to or at their authorized returns, including weather-normalization, revenue decoupling, infrastructure replacement riders, rate stabilization, and cost of service adjustment riders.”

2015 Findings

- Standard & Poor’s Rating Services. RatingsDirect CenterPoint Energy Resources Corp. December 28, 2015.
“The gas distribution operations benefit from various regulatory mechanisms that contribute to cash flow stability and allow the regulated gas distribution operations to earn closer to or at their authorized returns, including weather-normalization, revenue decoupling, infrastructure replacement riders, rate stabilization, and cost of service adjustment riders.”
- Moody’s Investors Services. Credit Opinion: CenterPoint Energy Resources Corp. September 24, 2015
“The company has been granted various revenue-stabilizing mechanisms. For example, it also has weather normalization clauses in Arkansas and a pilot decoupling program in Minnesota, which was implemented in July 2015.”
- Fitch Ratings. Full Ratings Report: CenterPoint Energy Resources Corp. April 9, 2015.
“In May 2014, the Minnesota Public Utilities Commission (MPUC) authorized the implementation of a three-year pilot revenue decoupling mechanism with an effective date of July 1, 2015. Revenue is stabilized under the mechanism by delinking from the impact of change in usage per customer and weather, but the mechanism adjusts for growth in customer count. The mechanism will apply to residential, commercial and industrial sales customers.”

2016 Findings

- Fitch Ratings. Full Ratings Report: CenterPoint Energy Resources Corp. April 27, 2016.

“CERC’s gas operations benefit from diversified service territories and overall supportive recovery mechanisms such as decoupling, weather normalization and the Gas Reliability Infrastructure Program in Texas.”

- Moody’s Investor Services. Credit Opinion: CenterPoint Energy Resources Corp. September 19, 2016
“The company has also been granted various revenue stabilizing mechanisms. For example, it has decoupling in Arkansas and a pilot decoupling program in Minnesota, which was implemented in July 2015.”
- Fitch Ratings. Full Rating Report: CenterPoint Energy, Inc. October 21, 2016
“CNP’s gas operations benefit from diversified service territories and overall supportive recovery mechanisms such as decoupling, weather normalization and the Gas Reliability Infrastructure Program (GRIP) in Texas.”
- Moody’s Investor Services. Issuer In-depth: CenterPoint Energy, Inc. November 3, 2016
“Approximately 74% of LDCs’ operating income is generated in Texas and Minnesota, where we consider the regulatory environment to be credit supportive. The other four states where CERC operates - Arkansas, Louisiana, Mississippi and Oklahoma - also provide credit supportive regulatory frameworks such as formulaic ratemaking mechanisms, gas margin stabilization decoupling mechanisms, and weather normalization adjustments.”
- S&P Global Ratings. Research: CenterPoint Energy Resources Corp. December 21, 2016
“The gas distribution operations benefit from various regulatory mechanisms that contribute to cash flow stability and allow the regulated gas distribution operations to earn closer to or at their authorized return on equity. These regulatory riders include weather-normalization, revenue decoupling, infrastructure capital cost recovery riders, and cost-of-service adjustment riders.”

2017 Findings

- Fitch Ratings. Full Ratings Report: CenterPoint Energy Resources Corp. May 1, 2017
“CERC’s gas operations benefit from diversified service territories in six states and supportive recovery mechanisms, such as decoupling, weather normalization and infrastructure cost recovery riders, allowing the gas utilities to earn near their authorized returns.”
- Fitch Ratings. Full Ratings Report: CenterPoint Energy Resources Corp. September 26, 2017
“CERC’s gas operations benefit from diversified service territories in six states and supportive recovery mechanisms, such as decoupling, weather normalization and the Gas Reliability Infrastructure Program (GRIP) in Texas, allowing the gas utilities to earn near their authorized returns.”
- Moody’s Investors Services. Credit Opinion: CenterPoint Energy Resources Corp. September 27 and October 13, 2017
“In addition, CERC has also been granted various revenue stabilizing mechanisms. For example, the utility has a pilot decoupling program in Minnesota, which was implemented in July 2015.”

- S&P Global Ratings. Research: CenterPoint Energy Resources Corp. December 11, 2017 “CERC effectively manages regulatory risk through the continued use of regulatory mechanisms and timely filing of rate cases. The regulatory mechanisms reduce the regulatory lag and contribute to cash flow stability, allowing the regulated gas distribution operations to earn closer to or at their authorized return on equity. These regulatory riders include weather-normalization, revenue decoupling, infrastructure capital cost recovery riders, and cost-of-service adjustment riders.”
- Fitch Ratings. Full Rating Report: CenterPoint Energy, Inc. October 16, 2017
“CNP’s gas operations benefit from diversified service territories and overall supportive recovery mechanisms such as decoupling, weather normalization and the Gas Reliability Infrastructure Program (GRIP) in Texas.”

Reports from Financial Analysts – Summary

Notes:

- Includes reports from 2014, 2015, 2016, and year-to-date 2017
- Financial Analyst Reports that did not mention “CenterPoint Energy” and “decoupling” or “decoupler” were not included

2014 Findings

- March 2, 2014. Matt Tucker. KeyBanc Capital Markets. CNP: Raising 2014-2015 Estimates, but Maintaining HOLD Ahead of Enable IPO. Page 2.
 - “On the call, management provided updates on three key regulatory items for its gas utility. First, the Minnesota rate case – which per the last call, entails \$44.3 million annual base rate increases (including \$15 million of energy efficiency currently being recovered in a separate rider), a \$700 million rate base, a full decoupling mechanism and an ROE of 10.3% with 53% equity – was heard by an administrative law judge in January, and a final decision is expected from the PUC by mid-summer. This is consistent with the anticipated timing provided in 3Q13. CNP self-implemented a \$42.9 million increase on October 1, 2013.”
- May 21, 2014. Carl Kirst. BMO Capital Markets. Natural Gas IQ: Notes from Miami-AGA Conference. Page 3.
 - “As part of its recent rate case within the Minnesota LDC jurisdiction, CNP recently received ALJ approval for \$17 million rate increase versus its initial \$29 million request; we have modeled in \$23 million, creating a penny drag to expectations. Also of note, CNP was awarded three-years of volume decoupling to commence in July of 2015, which should eliminate the need to enter into weather hedging, with roughly the same level of protection.”
- May 21, 2014. Matt Tucker. KeyBanc Capital Markets. CNP – Quick Alert: Key Takeaways from the AGA Financial Forum. Page 1.
 - “At Minnesota, management said its GRC went largely as expected. Also in Minnesota, CNP will have a pilot three-year weather and usage decoupler beginning July 2015 that allows CNP to still benefit from customer growth. Management will use a weather hedge there next winter (i.e., prior to the decoupler’s effective start date) as it has done in the past, citing the value of added protection at the beginning and end of its fiscal year. Hedges were used at both Electric and Gas this past winter, the first time in a while at Houston Electric (CEHE) according to management.”
- June 23, 2014. Sarah Akers. Wells Fargo Securities, LLC. CNP: Updated Analysis Supports Outperform Rating; Analyst Day To Highlight Dividend Growth And Attractive Utility. Page 7.

- “Most of CNP’s LDC operations benefit from some form of enhanced recovery program (Main Replacement in AR, Rate Stabilization Plan in LA, Rate Regulation Adjustment in MS, Performance- Based Rates in OK, and Gas Reliability Infrastructure Programs in TX), and the company estimates that approximately 50% of capital is covered by annual adjustment mechanisms. The main exception is MN where CNP has to file more frequent base rate cases to recover infrastructure investment. The company just received an order in CERC’s MN rate case approving a \$32 million rate increase premised upon a 9.59% ROE based on a test year ending 9/30/14, which compares to the company’s request for a \$44 million rate increase and 10.3% ROE. Separately, CERC has weather-normalization or decoupling mechanisms in AR, LA, MN, MS, and OK.”
- June 30, 2014. Neel Mitra. Tudor Pickering Holt. 2014 Analyst Day Takeaways and Notes. Page 2.
 - “Minnesota – no annual mechanism, decoupling pilot in 7/15
 - Rate cases filed every other year”

2015 Findings

- July 7, 2015. Brian Russo. Ladenburg Thalmann. Electric T&D and Gas LDC with Midstream Exposure; Initiate with NEUTRAL Rating. Page 9.
 - “CERC’s diverse geographic and regulatory footprint enable consistent earnings, as the variations in volumetric sales are mitigated in five out of six states from either a WNA or decoupling mechanisms. CNP has weather-normalization, weather hedges or other rate mechanisms to mitigate the impact of weather in Arkansas, Louisiana, Mississippi and Oklahoma. Natural gas delivery (NGD) in Texas and Minnesota do not have weather-adjustment mechanisms and results are impacted by fluctuation in the weather. Weather hedges help mitigate the impact.”

2016 Findings

- May 11, 2016. Eric Beaumont. Barclays. Raising Price Target on Higher Enable Unit Price. Page 3.
 - “The natural gas utilities showed solid growth, driven by rate relief combined with a decoupling pilot which removes most if not all of the weather sensitivity. This was especially helpful in Q1 as heating degree days were 14% below normal and 27% below Q1 2015.”
- August 8, 2016. Brian Russo. Ladenburg Thalmann. 2Q16 Results and Guidance Reaffirmed; Reiterate NEUTRAL. Page 2.
 - “CNP’s natural gas distribution segment reported operating income of \$20 million in 2Q16 compared to \$19 million in 2Q15. Segment results benefited on a year-over-year basis from rate relief, miscellaneous

revenue increases from items such as weather related decoupling and increased usage in Minnesota, and 1% year-over-year customer growth.”

- September 11, 2016. Greg Gordon. Evercore ISI. Initiating on CenterPoint with a Hold Rating, \$24.50 Target. Page 14.
 - “Regulatory Mechanisms:
 - Forward Test Year with interim rates
 - Pilot Decoupling Mechanism through June 2018
 - Conservation Improvement Program (CIP) to recover conservation program expenses
 - Gas cost true up mechanism
 - Demand Smoothing Mechanism”
- November 4, 2016. Shahriar Pourreza. Guggenheim Securities. 3Q16 Beat and Guidance Raise; Potential for Uplift from ENBL but Strategy Review Continues. Page 1.
 - “Gas distribution benefited from annual GRIP in Houston/Texas of \$18.2mm, and increases of \$8mm and \$7mm for stabilization from decoupling in MN and AR.”
- November 22, 2016. Greg Gordon. Evercore ISI. Raising Estimates Backed By Robust 2017 Guidance From Enable. Page 2.
 - “The gas distribution segment was also up +\$11 million from rate relief, revenue from decoupling mechanisms, lower bad debt expense, offset by higher depreciation and increased labor and benefit expenses.”
- December 9, 2016. Gary Hovis. Argus Research. Analyst Notes. Page 2.
 - “Operating income in 3Q16 benefited from a favorable rate case decision, revenue from decoupling mechanisms, lower bad debt expense and lower sales and use tax.”

2017 Findings

- February 28, 2017. Neel Mitra. Tudor Pickering Holt. CenterPoint Energy Q4'16 Earnings Takeaways and Notes. Email Format.
 - *“Might be the first winter where decoupling mechanism for weather might come in handy, working as anticipated? Had it in place for a year now and it benefitted us last year as well. With mild temperatures this year, it will also continue to be a benefit. Recently got a \$25mm true up that was approved last fall.”*

- May 5, 2017. Sarah Akers. Wells Fargo. Outlook Intact - ENBL Announcement By Q2 Call. Page 1.
 - “CNP reported Q1 EPS of \$0.37, in-line with our \$0.36 estimate, as decoupling and weather-normalization mechanisms helped mitigate the financial impact of unseasonably warm winter weather (though no mechanisms in Texas).”

- August 3, 2017. Shahriar Pourreza. Guggenheim Securities. Beat on the Quarter, but All Focus on Enable; Path Becoming More Visible, Hence the Positive Stock Reaction. Page 1.
 - “The outperformance was largely driven by rate relief from electric distribution investment (\$0.02), lower interest expense and an increase in cash distributions on preferred units (\$0.02), and timing related items associated with the Texas Gulf Coast rate order (\$0.02) and decoupling adjustment (\$0.01).

- August 3, 2017. Dan Ford. Barclays. Strong Utility Supports Valuation. Page 4.
 - “Natural gas distribution (\$37M versus \$20M). This included rate relief of \$6 million from Texas (\$3M) and Arkansas (\$3M) jurisdictions. 1% customer growth added \$1M. Also a Texas Gulf rate order added a net recovery of \$10M. Other items included a \$7M decoupling offset by \$7M of depreciation and taxes.”

- August 3, 2017. Insoo Kim. RBC Capital Markets. Beat on Enable & expenses; Enable spin no longer an option; outright sale/market sales still possible. Page 1.
 - “Gas distribution utilities: +\$0.01 YoY, \$0.01 above our estimate.
 - Higher rates: \$0.01, \$0.01 worse.
 - Other (timing of decoupling normalization adjustment, Texas Gulf regulatory asset treatment): \$0.02, \$0.03 better.
 - Depreciation expense: -\$0.01, \$0.01 worse.”

- August 14, 2017. Michael Weinstein. Credit Suisse. Quality Utilities Looking to Shed Midstream. Page 8.
 - “Minnesota has 2 recovery mechanisms. Conservation Improvement Program (CIP) allows recovery of an incentive and incremental Conservation Improvement Program costs. Revenue Decoupling Rider allows stabilization of revenue by adjusting revenue impact by changes in natural gas consumption.”

Included in multiple reports for the stated time frame

- Charles Fishman. Morningstar.
 - “CenterPoint also has weather-normalization adjustments in Arkansas, Louisiana, Oklahoma, and Mississippi, along with a recently approved usage decoupling pilot program in Minnesota.”
 - *In reference to Q1 2016 earnings:* “As expected, CenterPoint's natural gas utilities contributed strong earnings. Rate increases helped, but all utilities now have decoupling mechanisms that for the most part shielded earnings from the mild winter.”
- May 4, 2018. Aga Zmigrodzka. UBS. CenterPoint Energy Inc, Incremental Colour on the Merger and ENBL. Page 1.
 - Management noted it completed the Brazos Valley Connection project ahead of schedule and filed a Minnesota rate case settlement in March (decoupling will be made a permanent part of the rate).