



West Fir Avenue

Mailing Address:

P.O. Box 176

Fergus Falls, MN 56538-0176

(218) 736-6935

December 1, 2017

Mr. Daniel P. Wolf  
Executive Secretary  
Minnesota Public Utilities Commission  
121 East Seventh Place, Suite 350  
St. Paul, MN 55101-2147

**Re: Revenue Decoupling Mechanism Rates and Decoupling Evaluation Report for Year 1 of Pilot Program, Docket No. G004/GR-15-879**

Dear Mr. Wolf:

Great Plains Natural Gas Co. (Great Plains), a Division of MDU Resources Group, Inc., herewith electronically submits Revenue Decoupling Mechanism 1<sup>st</sup> Revised Sheet Nos. 5-125 and 126, attached hereto as Exhibit A, reflecting the Revenue Decoupling Mechanism (RDM) rates to be effective January 1, 2018. Sheet No. 5-125 is being included in Exhibit A to reflect a correction required regarding those customers exempt from the RDM tariff. Inadvertently the current tariff only reflects the exclusion of those customers deemed CIP exempt; however, as authorized in Docket No. G004/GR-15-879, flexible rate contract customers are exempt from the RDM tariff. The Company's one CIP exempt customer is also served under a flexible rate contract. The Company's first Decoupling Evaluation Report of its three-year Revenue Decoupling Pilot Program is also provided.

On September 6, 2016, the Commission issued its Findings of Fact, Conclusions, and Order in the Company's last general rate case, Docket No. G004/GR-15-879, approving Great Plains' proposed RDM with those modifications noted in the Order. In addition, the Company is including in its Evaluation Report the decoupling calculations using the per-customer method and the per-customer class method as ordered in Paragraph 26c of the Commission's Order.

If you have any questions regarding this filing, please contact me at (701) 222-7856 or Brian Meloy, at (612) 335-1451.

Sincerely,

*/s/ Tamie A. Aberle*

Tamie A. Aberle  
Director of Regulatory Affairs

cc: Brian M. Meloy

**Exhibit A**

**Exhibit A**



# GREAT PLAINS NATURAL GAS CO.

A Division of MDU Resources Group, Inc.

## State of Minnesota Gas Rate Schedule – MNPUC Volume 2

Section No. 5

1<sup>st</sup> Revised Sheet No. 5-125

Canceling Original Sheet No. 5-125

### REVENUE DECOUPLING MECHANISM

#### Applicability:

This rate schedule represents a Revenue Decoupling Mechanism (RDM) that serves to reduce the Company's financial disincentive to the promotion of energy efficiency and conservation by separating the link between the Company's revenues from changes in the volume of gas sales. This mechanism complies with the legislative intent and language of Minnesota Statute, Section 216B.2412 Decoupling of Energy Sales from Revenue.

The RDM is applicable to all rate classes with the exception of customers served under a flexible distribution rate agreement.

#### Revenue Decoupling Mechanism:

- a. The RDM will compare the level of non-gas revenues authorized in the last general rate case (excluding those revenues associated with the CCRC), adjusted for customer growth, to the level of non-gas revenues collected by rate class to determine either a revenue shortfall or surplus for the 12-month period beginning October 1 of each year. An adjustment per Dk per rate class will be calculated if either a revenue shortfall or surplus exists.
- b. An RDM adjustment per Dk will be calculated annually for each class of customers to which the RDM applies. The adjustment shall be calculated in the following manner per rate class:
- c. Authorized Margin per Customer: the non-gas revenues divided by the number of customers per rate class as authorized in the Company's last general rate case.
- d. Designed Revenues: authorized margin per customer multiplied by the greater of the (1) authorized customers or (2) actual customers per rate class for the 12-month period beginning October 1 of each year.
- e. RDM Adjustment per Dk = (Designed Revenues less actual non-gas revenues) divided by forecasted volumes for each rate class of customers. The RDM is symmetrical in form and can result in either a bill surcharge or credit for each rate class of customers. Bill surcharges applicable to the RDM shall be capped at ten percent of non-gas margin revenues (excluding revenues for the Conservation Cost Recovery charge) by rate class.

Date Filed: December 1, 2017

Effective Date: January 1, 2018

Issued By: Tamie A. Aberle  
Director – Regulatory Affairs

Docket No.: G004/GR-15-879



# GREAT PLAINS NATURAL GAS CO.

A Division of MDU Resources Group, Inc.

## State of Minnesota Gas Rate Schedule – MNPUC Volume 2

Section No. 5

1<sup>st</sup> Revised Sheet No. 5-126

Canceling Original Sheet No. 5-126

### REVENUE DECOUPLING MECHANISM

#### Pilot Program:

The RDM established under this tariff is new to the Company's rate design and was not included in any prior rate structure of the Company. The RDM will be effective for a pilot period of 36 months from the date the program is authorized to become effective. The Company may request approval from the Commission to extend the RDM beyond the pilot period.

#### Annual RDM Adjustment:

- a. No later than December 1<sup>st</sup> of the calendar year following the Commission's approval of the RDM tariff, and each December 1<sup>st</sup> thereafter, the Company shall file with the Commission a report that specifies the RDM adjustments to be effective for each rate class. The initial report shall reflect a 12-month period beginning October 1, 2016, the first day of the month following the final order of the Commission in Docket G004/GR-15-879.
- b. In the event any portions of the proposed rate adjustments are modified by the Commission, the proposed rate adjustments shall be adjusted in accordance with the Commission's order.
- c. The Company shall record its best estimate of the amounts to be recognized under the RDM so as to reflect in its books and records a fair representation of the impact of this rider in actual earnings. Such estimate shall be adjusted, if necessary, upon filing the RDM calculations with the Commission, and again upon final Commission approval.

#### Revenue Decoupling Mechanism:

	<u>Rate per Dk</u>
Residential	
North District Rate N60	\$0.2842
South District Rate S60	\$0.2003
Firm General	
North District Rate N70	\$0.2454
South District Rate S70	\$0.2008
Small Interruptible Sales & Transportation	
North District Rates N71 and N81	\$0.1059
South District Rates S71 and S81	\$0.0472
Large Interruptible Sales & Transportation	
North District Rates N82 and N85	\$0.1178
South District Rates S82 and S85	(\$0.1568)

Date Filed: December 1, 2017

Effective Date: January 1, 2018

Issued By: Tamie A. Aberle  
Director – Regulatory Affairs

Docket No.: G004/GR-15-879

## Tariffs Reflecting Proposed Changes



# GREAT PLAINS NATURAL GAS CO.

A Division of MDU Resources Group, Inc.

## State of Minnesota Gas Rate Schedule – MNPUC Volume 2

Section No. 5  
Original Sheet No. 5-125

### REVENUE DECOUPLING MECHANISM

#### Applicability:

This rate schedule represents a Revenue Decoupling Mechanism (RDM) that serves to reduce the Company's financial disincentive to the promotion of energy efficiency and conservation by separating the link between the Company's revenues from changes in the volume of gas sales. This mechanism complies with the legislative intent and language of Minnesota Statute, Section 216B.2412 Decoupling of Energy Sales from Revenue.

The RDM is applicable to all rate classes with the exception of customers deemed to be CIP exempted interruptible customers served under a flexible distribution rate agreement.

#### Revenue Decoupling Mechanism:

- a. The RDM will compare the level of non-gas revenues authorized in the last general rate case (excluding those revenues associated with the CCRC), adjusted for customer growth, to the level of non-gas revenues collected by rate class to determine either a revenue shortfall or surplus for the 12-month period beginning October 1 of each year. An adjustment per Dk per rate class will be calculated if either a revenue shortfall or surplus exists.
- b. An RDM adjustment per Dk will be calculated annually for each class of customers to which the RDM applies. The adjustment shall be calculated in the following manner per rate class:
- c. Authorized Margin per Customer: the non-gas revenues divided by the number of customers per rate class as authorized in the Company's last general rate case.
- d. Designed Revenues: authorized margin per customer multiplied by the greater of the (1) authorized customers or (2) actual customers per rate class for the 12-month period beginning October 1 of each year.
- e. RDM Adjustment per Dk = (Designed Revenues less actual non-gas revenues) divided by forecasted volumes for each rate class of customers. The RDM is symmetrical in form and can result in either a bill surcharge or credit for each rate class of customers. Bill surcharges applicable to the RDM shall be capped at ten percent of non-gas margin revenues (excluding revenues for the Conservation Cost Recovery charge) by rate class.

<b>Date Filed:</b>	January 3, 2017	<b>Effective Date:</b>	Service rendered on and after January 1, 2017
<b>Issued By:</b>	Tamie A. Aberle Director – Regulatory Affairs	<b>Docket No.:</b>	G004/GR-15-879



# GREAT PLAINS NATURAL GAS CO.

A Division of MDU Resources Group, Inc.

## State of Minnesota Gas Rate Schedule – MNPUC Volume 2

Section No. 5  
Original Sheet No. 5-126

### REVENUE DECOUPLING MECHANISM

#### Pilot Program:

The RDM established under this tariff is new to the Company's rate design and was not included in any prior rate structure of the Company. The RDM will be effective for a pilot period of 36 months from the date the program is authorized to become effective. The Company may request approval from the Commission to extend the RDM beyond the pilot period.

#### Annual RDM Adjustment:

- a. No later than December 1<sup>st</sup> of the calendar year following the Commission's approval of the RDM tariff, and each December 1<sup>st</sup> thereafter, the Company shall file with the Commission a report that specifies the RDM adjustments to be effective for each rate class. The initial report shall reflect a 12-month period beginning October 1, 2016, the first day of the month following the final order of the Commission in Docket G004/GR-15-879.
- b. In the event any portions of the proposed rate adjustments are modified by the Commission, the proposed rate adjustments shall be adjusted in accordance with the Commission's order.
- c. The Company shall record its best estimate of the amounts to be recognized under the RDM so as to reflect in its books and records a fair representation of the impact of this rider in actual earnings. Such estimate shall be adjusted, if necessary, upon filing the RDM calculations with the Commission, and again upon final Commission approval.

<u>Revenue Decoupling Mechanism:</u>	<u>Rate per Dk</u>
<u>Residential</u>	
North District Rate N60	\$0.2842
South District Rate S60	\$0.2003
<u>Firm General</u>	
North District Rate N70	\$0.2454
South District Rate S70	\$0.2008
<u>Small Interruptible Sales &amp; Transportation</u>	
North District Rates N71 and N81	\$0.1059
South District Rates S71 and S81	\$0.0472
<u>Large Interruptible Sales &amp; Transportation</u>	
North District Rates N82 and N85	\$0.1178
South District Rates S82 and S85	(\$0.1588)

<b>Date Filed:</b>	January 3, 2017	<b>Effective Date:</b>	Service rendered on and after January 1, 2017
<b>Issued By:</b>	Tamie A. Aberle Director – Regulatory Affairs	<b>Docket No.:</b>	G004/GR-15-879

# Decoupling Evaluation Report

*Docket G-004/GR-15-879*

*Evaluation Period: 10/1/16 – 9/30/17*

*12/1/2017*

## **Table of Contents**

<b>Section A: Executive Summary</b>	<b>Page 1</b>
<b>Section B: Timeline for Evaluation</b>	<b>Page 3</b>
<b>Section C: Revenue Accrued and Collected Under Full Revenue Decoupling</b>	<b>Page 4</b>
<b>Section D: Evaluation of Great Plains Natural Gas Co.'s Commitment To Increased Energy Savings</b>	<b>Page 13</b>
<b>Section E: Related Rate and Usage Information</b>	<b>Page 29</b>
<b>Section F: Other Information</b>	<b>Page 36</b>
<b>Section E: Attachment List</b>	<b>Page 38</b>

**Evaluation Report  
For Great Plains Natural Gas Co.'s Revenue  
Decoupling Mechanism  
10/1/2016 – 9/30/2017**

**A. EXECUTIVE SUMMARY**

Great Plains Natural Gas Co. (Great Plains or the Company), a Division of MDU Resources Group, Inc., submits its initial Evaluation Report for its Revenue Decoupling Mechanism (RDM) to the Minnesota Public Utilities Commission (Commission). In the Company's 2015 Rate Case, Docket No. G004/GR-15-879, the Commission authorized the Company to implement a full RDM as a three-year pilot program<sup>1</sup>.

In this Evaluation Report, the data and supporting calculations for the decoupling adjustment factors (Revenue Decoupling Mechanism rates) that will be implemented on customer bills effective January 1, 2018 are provided. Generally, the RDM compares the level of non-gas revenues authorized in the last general rate case (excluding those revenues associated with the Conservation Cost Recovery Charge (CCRC)), adjusted for customer growth, to the level of non-gas revenues collected by rate class to determine either a revenue shortfall or surplus for the 12-month period beginning October 1, 2016. The RDM is symmetrical, meaning an adjustment per Dk per rate class is calculated whether a revenue shortfall or surplus exists. Decoupling surcharges are limited to 10% of the authorized non-gas revenues (design revenues) for each individual rate class. Refunds are not limited by a cap.

For the first evaluation period, October 2016 through September 2017, the Company incurred an overall revenue shortfall of \$466,045. Decoupling adjustments were calculated separately for the four rate classes for the North and South rate areas. The four rate classes for each area are: Residential, Firm General, Small Interruptible, and Large Interruptible. As part of the Company's 2015 general rate case, the North and South areas are being combined during a phase-in period. Once the combination is

---

<sup>1</sup> Findings of Fact, Conclusions, and Order issued September 6, 2016 in Docket No. GR-15-879 (September 2016 Order), Order Paragraph 26.

complete there will be just the four decoupling adjustment factors. All but one of the rate classes indicate a need for a decoupling surcharge, with the Large Interruptible rate class for the South area indicating a refund. Generally, the rate classes requiring a surcharge were the result of lower than authorized sales volumes or lower than authorized customer counts, or some combination of both. The rate class resulting in a refund to customers was driven by higher than authorized volumes.

Although the Company incurred an overall revenue shortfall of \$466,045, the total decoupling adjustment is limited to \$428,305 because of the cap imposed on decoupling surcharges. Detailed information regarding the decoupling adjustment calculations is provided in Section C of this report.

Residential customers used approximately 190,000, or 13%, less dekatherms than anticipated in the first pilot year. During that time the average per-dekatherm charge was about \$6.45 for an overall savings of \$1.2 million. The decoupling surcharges for the residential classes total approximately \$335,000, so the classes still saved nearly \$900,000 compared to charges that might have been incurred under “normal” assumptions.

Supplementary detailed information regarding the Company’s commitment to conservation, as well as other customer usage and information is provided in Sections D through F.

## **B. TIMELINE FOR EVALUATION**

### Approval of Full Decoupling

- September 6, 2016 – Commission ordered full-decoupling for Great Plains Natural Gas Co. (Docket G-004/GR-15-879 – page 56, ordering point 26).

### Pilot Year 1

- October 1, 2016 – the first Evaluation Period (10/1/16-9/30/17) begins.
- September 30, 2017 – the first Evaluation Period (10/1/16-9/30/17) ends.
- December 1, 2017 – the first Evaluation Report is submitted to the Commission by Great Plains Natural Gas Co.
- January 1, 2018 - implement the Revenue Decoupling Mechanism rates

### Pilot Year 2

- October 1, 2017 – the second Evaluation Period (10/1/17-9/30/18) begins.
- September 30, 2018 – the second Evaluation Period (10/1/17-9/30/18) ends.
- December 1, 2018 – the second Evaluation Report is submitted to the Commission by Great Plains Natural Gas Co.
- January 1, 2019 - the updated Revenue Decoupling Mechanism rates are effective.

### Pilot Year 3

- October 1, 2018 – the third Evaluation Period (10/1/18-9/30/19) begins.
- September 30, 2019 – the third Evaluation Period (10/1/18-9/30/19) ends.
- December 1, 2019 – the third Evaluation Report is submitted to the Commission by Great Plains Natural Gas Co.
- January 1, 2020 - the updated Revenue Decoupling Mechanism rate are effective.

### **C. REVENUE ACCRUED AND COLLECTED UNDER FULL REVENUE DECOUPLING**

#### Overview of Model

Great Plains submits its first-year pilot results following the methods authorized in Docket No. G-004/GR-15-879. Throughout the year (October 2016 – September 2017), the Company tracked its sales and transportation volumes and customer counts for use in the Revenue Decoupling Mechanism (RDM). The Company calculated a decoupling accrual monthly and aggregated the amounts quarterly for accrual entries made as part of its quarter-end accounting activity. At the end of the twelve-month evaluation period, the annual RDM adjustments by rate class were calculated. For purposes of the RDM, the following eight rate classes are considered: Residential Rate N60, Residential Rate S60, Firm General Rate N70, Firm General Rate S70, Small Interruptible Sales and Transport Rates N71 and N81, Small Interruptible Sales and Transport Rates S71 and S81, Large Interruptible Sales and Transport Rates N85 and N82, and Large Interruptible Sales and Transport Rates N85 and N82. The RDM rate classes are consistent with how the Company computed the distribution charges in its most recent rate case; in effect, the rate design approved in the Company's most recent general rate case is maintained within the RDM rate structure as well.

The quarterly accounting entries reflected the over/under-collection of non-gas revenues for the decoupling program, consistent with the Company's Revenue Decoupling Mechanism tariff which states: "The Company shall record its best estimate of the amounts to be recognized under the RDM 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 January after the Evaluation Period.

The calculation of the quarterly accrual reflects the total for each rate class, unadjusted for any caps. As required by the Commission in its September 2016 Order, the Company adjusted the actual decoupling accruals that exceeded the

caps in the year-end calculation of the RDM annual adjustments. Each rate class was calculated separately.

#### Calculation of Decoupling Accrual and Annual Adjustment

For purposes of the quarterly accruals, the actual non-gas revenue is compared to the Designed Revenue (as defined in the Revenue Decoupling Mechanism tariff) to determine the decoupling accrual amount for each rate class individually. The actual customer count and billed volumes are used to calculate the actual non-gas revenue by applying the applicable basic service charges and tariffed delivery charge less the CCRC.

The actual non-gas revenue is compared to the Designed Revenue for the period to determine the gross adjustment amount by rate class. The Designed Revenue is defined in the Revenue Decoupling Mechanism tariff as the product of the greater of the actual or authorized customers multiplied by the authorized margin per customer for that month. Determining Designed Revenue in this manner allows for the authorized non-gas margin to adjust for customer growth and protects against unintended consequences of the pilot that can arise if customer counts decline. For instance, if the calculation were to simply use the actual customer count instead of authorized, the result of lower than authorized customer counts would be decreased designed non-gas revenue even though there has not been a corresponding decrease in the non-gas revenue requirements, since the majority of the Company's costs are fixed. Actual revenue exceeding designed revenue indicates an amount owed as a refund to customers, while Designed Revenue exceeding actual revenue indicates a surcharge amount due from customers.

The monthly results are aggregated quarterly for an accrual entry made as part of the quarter-end accounting activities. In calculating the final decoupling adjustment amounts by rate class after the evaluation period is complete, actual customer counts are updated to replace any estimated information included in the accrual. The Company's final adjustments are then calculated on an annual basis rather than as a summation of the individual months used for purposes of

the accounting accruals. This annual adjustment calculation is consistent with the derivation of the Company's rates which uses an annual average customer count. Decoupling adjustments are also evaluated against the established cap based on ten percent of Designed Revenues (for surcharges) as authorized in Docket No. G004/GR-15-879.

C-1) Monthly, annual, cumulative revenue deferred.

*What was the monthly, annual, and cumulative amount of revenue over/under collected by rate class through the RDM 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 C-1 provides a summary of the decoupling adjustment by rate class before and after any adjustments to reflect the 10% cap. The calculations are provided in Attachment A, pages 2-9.

**Table C-1 - Decoupling Adjustment balance thru September 30, 2017 1/**

Rate Class	Decoupling Adjustment Balance through September 30, 2017	Capped Adjustment	Adjustment to Reflect 10% Cap	Adjusted Balance
Residential Rate - N60	\$185,034	\$214,551	\$0	\$185,034
Residential Rate - S60	\$150,890	\$208,396	\$0	\$150,890
Firm General - N70	\$129,174	\$121,618	(\$7,556)	\$121,618
Firm General - S70	\$176,026	\$145,842	(\$30,184)	\$145,842
Small Interruptible - N71 & N81	\$38,252	\$56,871	\$0	\$38,252
Small Interruptible - S71 & S81	\$14,648	\$56,050	\$0	\$14,648
Large Interruptible - N85 & N82	\$37,751	\$43,281	\$0	\$37,751
Large Interruptible - S85 & S82	(\$265,730)	\$40,118	\$0	(\$265,730)
<b>Total Under / (Over) Collection</b>	<b>\$466,045</b>	<b>\$886,727</b>	<b>(\$37,740)</b>	<b>\$428,305</b>
1/ Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879.				

Any over or under recovery of the 2016 – 2017 decoupling balance over the 2016 – 2017 period will be included in the calculation of the 2017 – 2018 decoupling factors.

Revenue Deferral for October 2016 – September 2017 Evaluation Period

At the end of the first year of the pilot, September 30, 2017, the net decoupling balance to be collected from customers is \$428,305. This amount will be surcharged on a per Dk basis by rate class beginning January 1, 2018.

Anticipated adjustments to Decoupling Balance in 2018:

The Company does not anticipate any adjustments to the balance as of September 30, 2017. Detailed monthly, year-end, and cumulative calculations are contained in Attachment A.

*C-2) Monthly, annual, cumulative revenue recovered.*

*What was the monthly, annual, and cumulative amount of revenue recovered by rate schedule through the decoupling mechanism during the period being evaluated? A discussion describing actions leading to these adjustments will be provided.*

Because this Evaluation Report covers the first Evaluation Period, no revenue has been recovered through the RDM. The rates will be implemented January 1, 2018 and billed through December 31, 2018.

*C-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?*

The Company has provided the calculation, by rate class, for the 10% revenue cap in Attachment A pages 2-9. The line labeled “Designed Non-Gas Revenues” for each rate class is multiplied by 10% to determine the RDM adjustment cap in total dollars. Note that the Company’s decoupling revenue exceeded the cap for two of the eight rate classes. The two were: Firm General Rate – N70 and Firm General Rate – S70 as also shown in Table C-1. The Company adjusted its estimated Decoupling Revenue by \$37,740 to exclude the amounts in excess of the cap.

*C-4) Discussion of actions affecting decoupling calculations*

*Has Great Plains 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.*

No changes were made to the methods or calculations that are explained in the RDM tariff.

*C-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 the methodology or input values for the calculation of the accounting journal entries which significantly impacted the decoupling accrual. However, one unique situation did arise regarding a new customer taking service under the Large Interruptible General Gas Transportation Service Rate N82. Please refer to Section E-6b) below for a discussion regarding the treatment of this new customer.

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

As this report covers the first evaluation period for the decoupling pilot program, there is not a relevant impact to present. In the report to be filed December 1, 2018, the Company will compare the tax-effected impact of the decoupling adjustment for the October 2016 – September 2017 evaluation period to the 2017 net operating income to be reported in the Company's 2017 annual report.

*C-7) By rate class – recorded gas margin revenue – before and after accrual*

*What was Great Plains' recorded gas margin revenue by rate class for the period being evaluated, before and after decoupling deferrals?*

Decoupling accrual amounts are calculated monthly and booked quarterly to record the Company's best estimate of the amounts to be recognized under the RDM. At the end of the evaluation period the final decoupling adjustment amount by rate class is calculated, including the applicable adjustment necessary to reflect the required 10% cap. Table C-7 shows actual margin by rate schedule as well as what the margin would be including the decoupling adjustment or the final accrual, for each rate class.

**Table C-7: Margin by Rate Class 1/**

<b>Rate Class</b>	<b>Designed Revenue</b>	<b>Actual Revenue 2/</b>	<b>Decoupling Adjustment</b>	<b>Revenue w/Decoupling Accrual</b>
Residential Rate - N60	\$ 2,145,507	\$ 1,960,473	\$185,034	\$2,145,507
Residential Rate - S60	2,083,964	1,933,074	150,890	2,083,964
Firm General - N70	1,216,184	1,087,010	121,618	1,208,628
Firm General - S70	1,458,416	1,282,390	145,842	1,428,232
Small Interruptible - N71 & N81	568,714	530,462	38,252	568,714
Small Interruptible - S71 & S81	560,500	545,852	14,648	560,500
Large Interruptible - N85 & N82	432,812	395,061	37,751	432,812
Large Interruptible - S85 & S82	401,179	666,909	(265,730)	401,179
<b>Total</b>	<b>\$ 8,867,276</b>	<b>\$ 8,401,231</b>	<b>\$428,305</b>	<b>\$8,829,536</b>
1/ Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879.				
2/ As calculated for each rate class in Attachment C-1.				

**C-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. (January 2018 – December 2018)*

The calculation of the adjustment factors to be billed for the period January 1, 2018 through December 31, 2018 is provided on page 1 of Attachment A. A summary of the adjustment factors and the decoupling adjustment per bill based on average use is provided in Table C-8.

**Table C-8: RDM Adjustment Factors 1/**

Rate Class	Decoupling Adjustment / Dk	Average Monthly Use (Dk)	Average Monthly Decoupling Adjustment
Residential Rate - N60	\$ 0.2842	6.4	\$1.82
Residential Rate - S60	\$ 0.2003	6.1	\$1.22
Firm General - N70	\$ 0.2454	32.5	\$7.98
Firm General - S70	\$ 0.2008	35.0	\$7.03
Small Interruptible - N71 & N81	\$ 0.1059	418.0	\$44.27
Small Interruptible - S71 & S81	\$ 0.0472	359.0	\$16.94
Large Interruptible - N85 & N82	\$ 0.1178	4,450.4	\$524.26
Large Interruptible - S85 & S82	\$ (0.1568)	20,170.9	(\$3,162.80)
1/ Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879.			

**C-9) Monthly bill impact for the upcoming year?**

*What is the monthly residential customer bill impact of the decoupling rate adjustment for customers during the recovery period?*

The monthly estimated bill impacts of the decoupling factor for the residential rate classes are illustrated in Tables C-9a and C-9b below. The Company divided projected normalized 2018 sales by authorized customers from the Company's most recent rate case, Docket No. G004/GR-15-879, to determine average use per customer. The Company's Phase 2 rates as authorized in that case, which will also go into effect on January 1, 2018, and gas costs as of November 1, 2017 were used for calculating the total bill amounts.

**Table C-9a: Residential Customer Bill Impact - Residential Rate - N60**

Month	Use per Customer	Decoupling Impact	Total Bill	Decoupling % of Total Bill
January	15.2	\$ 4.32	\$ 112.38	3.84%
February	12.9	3.67	96.51	3.80%
March	10.0	2.84	76.5	3.71%
April	5.1	1.45	42.69	3.40%
May	1.6	0.45	18.54	2.43%
June	0.6	0.17	11.64	1.46%
July	0.7	0.20	12.33	1.62%
August	0.7	0.20	12.33	1.62%
September	1.3	0.37	16.47	2.25%
October	5.2	1.48	43.38	3.41%
November	9.7	2.76	74.43	3.71%
December	13.6	3.87	101.34	3.82%
<b>Total</b>	<b>76.6</b>	<b>\$ 21.78</b>	<b>\$ 618.54</b>	<b>3.52%</b>

<b>Docket No. G004/GR-15-879 - Phase 2 Rates - Residential Rate - N60</b>		
Basic Service Charge	\$ 7.50	per month
Distribution Charge	\$ 1.8598	per Dk
CIP Base	\$ 0.0556	per Dk
Cost of Gas	\$ 4.3281	per Dk
CCRA, GAP & GUIC	\$ 0.3721	per Dk
Decoupling Adjustment	\$ 0.2842	per Dk

**Table C-9b: Residential Customer Bill Impact - Residential Rate - S60**

Month	Use per Customer	Decoupling Impact	Total Bill	Decoupling % of Total Bill
January	14.8	\$ 2.96	\$ 104.67	2.83%
February	12.3	2.46	88.25	2.79%
March	9.8	1.96	71.84	2.73%
April	4.9	0.98	39.67	2.47%
May	1.3	0.26	16.03	1.62%
June	0.4	0.08	10.13	0.79%
July	0.5	0.10	10.78	0.93%
August	0.5	0.10	10.78	0.93%
September	0.9	0.18	13.41	1.34%
October	4.7	0.94	38.36	2.45%
November	9.4	1.88	69.21	2.72%
December	13.2	2.64	94.16	2.80%
<b>Total</b>	<b>72.7</b>	<b>\$ 14.54</b>	<b>\$ 567.29</b>	<b>2.56%</b>

<b>Docket No. G004/GR-15-879 - Phase 2 Rates - Residential Rate - S60</b>		
Basic Service Charge	\$ 7.50	per month
Distribution Charge	\$ 1.6091	per Dk
CIP Base	\$ 0.0556	per Dk
Cost of Gas	\$ 4.3281	per Dk
CCRA, GAP & GUIC	\$ 0.3721	per Dk
Decoupling Adjustment	\$ 0.2003	per Dk

*C-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 schedules under the pilot.*

See Table C-7 above. For the first year of the evaluation period, customers were billed under “traditional regulation”, shown as Actual Revenue in the table above, without any adjustments for decoupling. The decoupling adjustment proposed for each rate schedule stabilizes revenues in the sense that it allows the Company to recover the revenue authorized by the Commission in its most recent rate case.

*C-11) Rate Cases filings during evaluation period – impact on methods/mechanics*

*Did Great Plains 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 RDM over/under collection calculations?*

The Company did not file any general rate cases during the evaluation period. However, the increases approved in the most recent general rate case did include a three-year phase-in procedure for consolidating the Company's two rate areas. This phase-in will have an impact on the revenue decoupling calculations for the second evaluation period defined as October 2017 – September 2018 to reflect the change in distribution rates associated with Phase 2 of the phase-in plan to be effective January 1, 2018.

**D. EVALUATION OF GREAT PLAINS NATURAL GAS CO.'S COMMITMENT TO INCREASED ENERGY SAVINGS**

This section compares energy conservation efforts in the pre-decoupling baseline period (defined as 2013 to 2016) and the post-decoupling evaluation period and includes CIP expenditures and energy savings in the last calendar year.

Conservation program results are collected and reported on a calendar year basis for the annual status reports, and therefore conservation information included in the Full Decoupling Evaluation report follows a calendar year cut-off, and not the October to September decoupling period. Therefore, the conservation information lags by nine months.

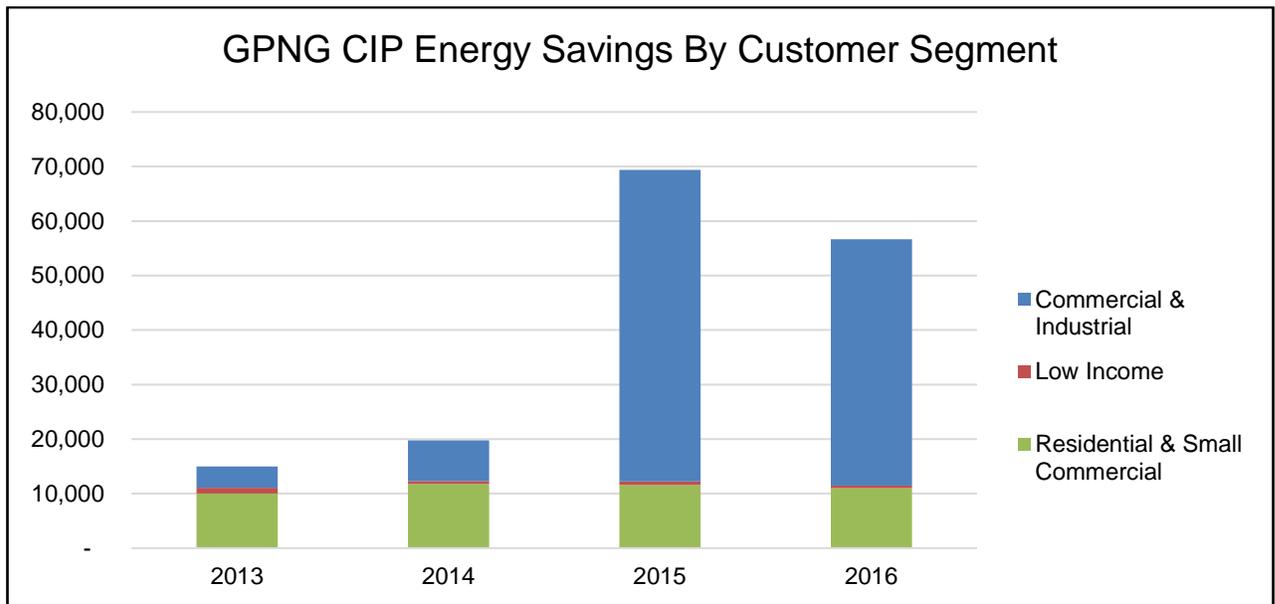
*D-1) A comparison of the Company's annual CIP expenditures and resulting energy savings in the pre-decoupling baseline period to the expenditures and savings in the post-decoupling evaluation period, updated to include CIP expenditures and energy savings since the Company's most recent decoupling*

*evaluation report, for the overall CIP portfolio and by customer and program segment.*

As this is the first evaluation report and no decoupling revenues have been collected, the Company does not have post-decoupling results to compare to the pre-decoupling baseline period. The 2013-2015 CIP Triennial period plus the 2016 extension has been defined as the pre-decoupling baseline period. In the Company's second decoupling evaluation report the 2017 CIP energy savings and expenditures will be compared to the pre-decoupling period (2013-2016) averages.

The graphs and tables below provide more detailed information regarding the expenditure and energy savings amounts by program and customer segment for the pre-decoupling baseline period. The pre-decoupling averages shown in this section is what the Company will compare annual CIP results to in future decoupling evaluation reports.

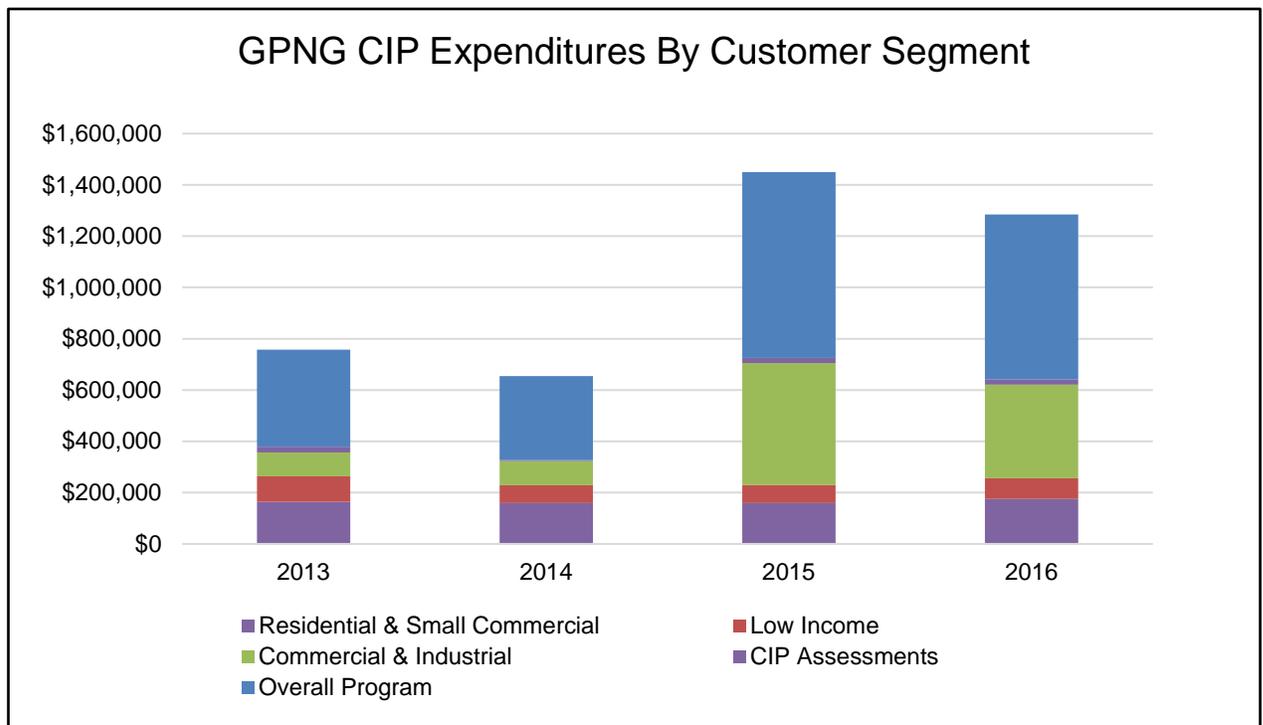
**Graph D-1a: Great Plains CIP Energy Savings (Dk) by Customer Segment**



**Table D-1a: Great Plains CIP Energy Savings (Dk) by Customer Segment**

Year/Period	Residential & Small Commercial	Low Income	Commercial & Industrial	Custom Project	Overall Program
2013	10,010	1,073	3,705	181	14,969
2014	11,751	561	7,476	-	19,788
2015	11,610	649	6,066	51,068	69,393
2016	10,991	467	4,024	41,187	56,669
<b>Pre-Decoupling Average</b>	11,091	688	5,318	23,109	40,205

**Graph D-1b: Great Plains CIP Expenditures by Customer Segment**



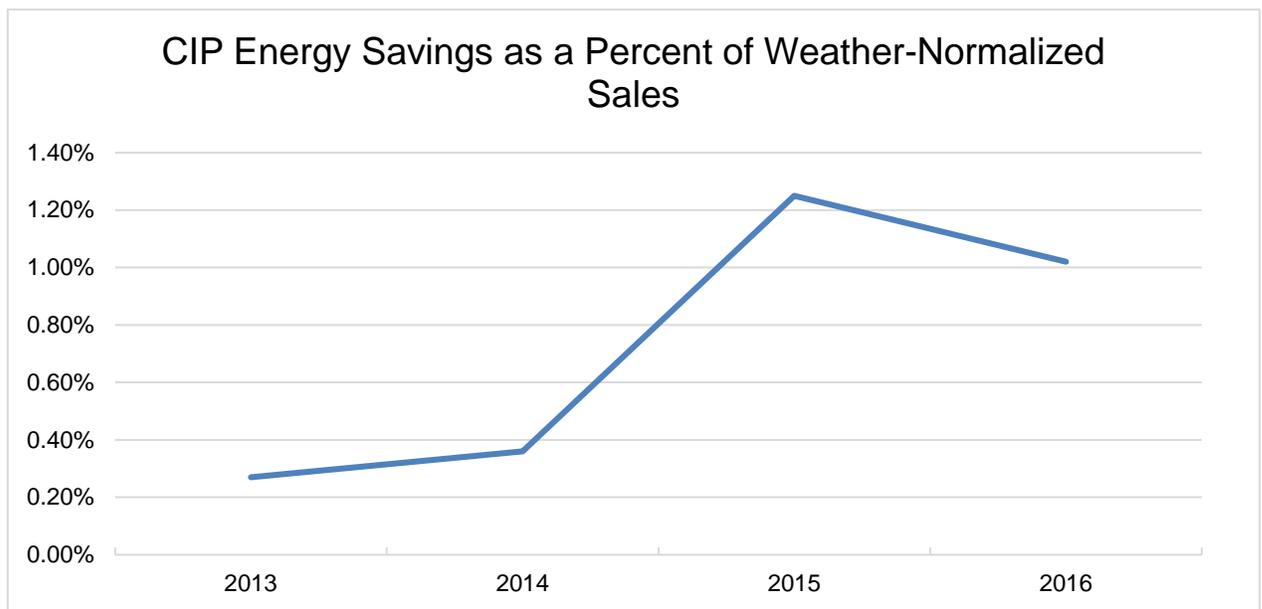
**Table D-1b: Great Plains CIP Expenditures by Customer Segment**

Year/Period	Residential & Small Commercial	Low Income	Commercial & Industrial	CIP Assessments	Overall Program
2013	\$ 163,900	\$ 99,443	\$ 92,875	\$ 22,575	\$ 378,793
2014	\$ 159,646	\$ 69,905	\$ 93,951	\$ 3,878	\$ 327,380
2015	\$ 159,636	\$ 70,389	\$ 475,518	\$ 19,101	\$ 724,644
2016	\$ 176,012	\$ 80,810	\$ 363,630	\$ 21,691	\$ 642,143
<b>Pre-Decoupling Average</b>	\$ 164,799	\$ 80,137	\$ 256,494	\$ 16,811	\$ 518,240

*D-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.*

The graph and table below show the Company's annual energy savings achievement as a percent of sales from 2013 to 2016.

**Graph D-2: Great Plains CIP Energy Savings as a Percent of Weather-Normalized Sales (based on the applicable 3-year average)**



**Table D-2: Great Plains CIP Energy Savings as a Percent of Weather-Normalized Sales  
(based on the applicable 3-year average)**

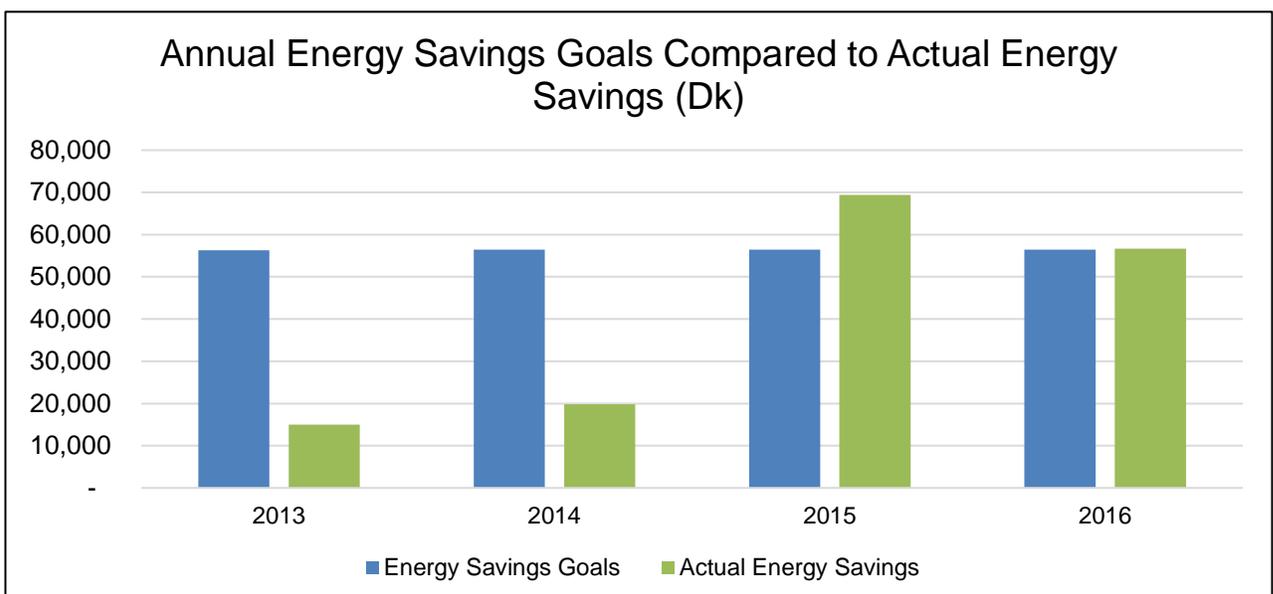
CIP Plan Period	Year	Applicable 3-year Average Weather Normalized Sales (Dk) 1/	Annual Energy Savings (Dk)	Energy Savings as a % of Sales
2013-2015 Triennial Period	2013	5,570,068	14,969	0.27%
	2014	5,570,068	19,788	0.36%
	2015	5,570,068	69,393	1.25%
Extension of 2013-2015 Triennial	2016	5,570,068	56,669	1.02%

1/ Reflects average normalized sales for the years 2009-2011, excluding CIP exempt customer dk throughout. Refer to Docket No. G004/CIP-12-573, Exhibit C, Page 1.

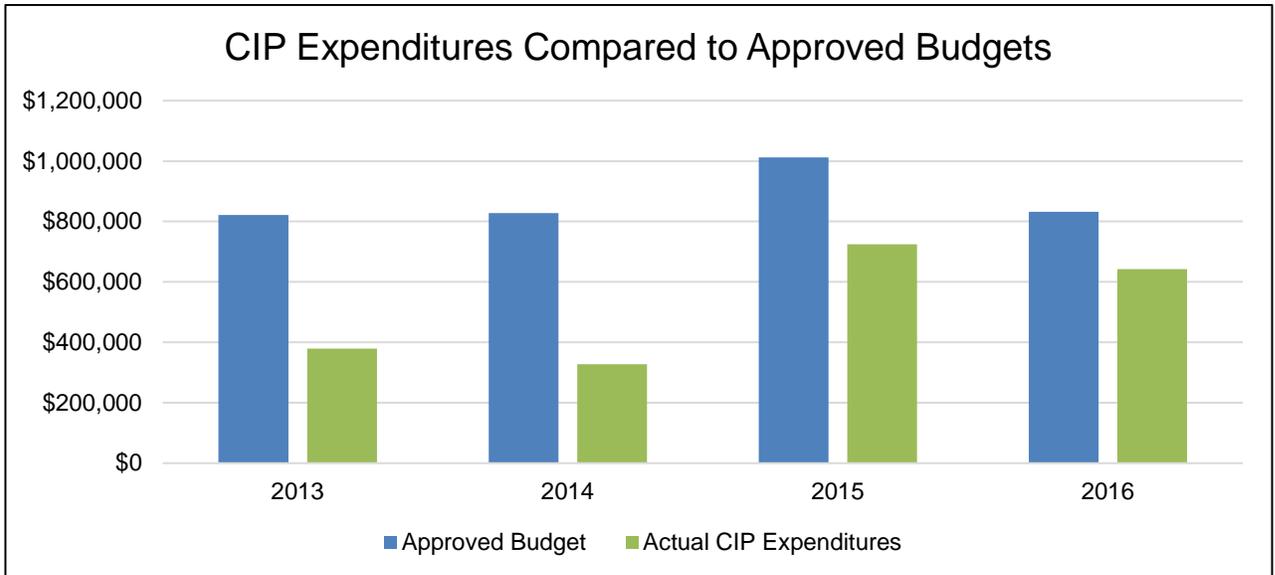
*D-3) How did the Company's CIP energy savings achievements and expenditures compare to its Commissioner-approved energy savings goals and budgets for the years under consideration?*

Actual CIP energy savings were 100% of approved goal in 2016 compared to 27% of goal in 2013. Actual expenditures were 77% of approved budget in 2016 compared to 46% in 2013. 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 (2013-2016).

**Graph D-3a: Great Plains Annual CIP Energy Savings Goals Compared to Actual Energy Savings (DT)**



**Graph D-3b: Great Plains Annual CIP Budgets Compared to Actual Expenditures**



*D-4) What were the associated “lost margins” from Company-sponsored CIP programs for each year under consideration, in total and by rate class? The “lost margin” were calculated by multiplying first year energy savings achieved by the applicable margin.*

Table D-4 shows the lost margins associated with the Company’s CIP energy savings from 2013 to 2016. 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 D-4: Great Plains Lost Margins due to CIP Energy Savings by Rate Class, 2013-2016**

Rate Class	2013	2014	2015	2016 1/
Residential Rate - N60	\$7,954	\$7,671	\$8,443	\$9,438
Residential Rate - S60	8,583	9,992	9,342	10,019
Total Residential	16,537	17,663	17,785	19,457
Firm General - N70	902	762	3,201	15,016
Firm General - S70	1,842	2,059	1,360	9,227
Total Firm General	2,744	2,821	4,561	24,243
Small IT Sales Rate - N71	954	1,538	3,756	
Small IT Transport - N81				
Small IT North - Total	954	1,538	3,756	-
Small IT Sales Rate - S71	180	2,762	4,382	
Small IT Transport - S81				31,048
Small IT South - Total	180	2,762	4,382	31,048
Large IT Sales Rate - N85			23	
Large IT Transport Rate - N82				
Large IT North - Total	-	-	23	-
Large IT Sales Rate - S85		200		301
Large IT Transport Rate - S82			11,611	
Large IT South - Total	-	200	11,634	301
Total Minnesota	\$20,415	\$24,984	\$42,118	\$75,049
1/ Lost margins calculated by multiplying first year energy savings achieved by the applicable margin. The applicable margin reflects the tariffed Distribution Delivery Charge excluding CIP base rate per dk as authorized in Docket No. G004/M-16-384 and implemented January 1, 2017.				

*D-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.*

As this is the Company's first Decoupling Evaluation Report there are no changes or expansions to discuss at this time.

*D-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?*

This is the Company's first Full Revenue Decoupling Evaluation Report. Therefore, the Company provides a brief overview of its marketing and outreach activities over the 2013-2015 CIP Triennial Period and 2016 extension program year.

Great Plains markets and promotes its CIP programs to both end use customers and the local contractor network. Great Plains also provided educational information to customers on ways to save energy in their home or businesses. The primary channels used by the Company were through its website and bill inserts. The Company's website and bill insert expenditures are not directly charged to CIP expense. The Company also used a direct mail campaign in 2013 and billboard advertising beginning in 2016.

The promotional materials were designed to encourage customers to participate in the Company's CIP programs by purchasing qualifying high-efficiency equipment, having a low-cost energy assessment performed on their home to identify energy savings, or installing low-cost measures to save energy in their home or business.

Great Plains' CIP Energy Services Manager also worked directly with the local contractor network on program awareness and education and worked directly with end use customers with outreach activities to promote all of our CIP programs including the custom program.

One outreach activity specifically targeted schools and was a joint program with Lake Region Electric and Otter Tail Power to bring energy efficiency education into local schools. The three participating utilities visited schools in Fergus Falls, Pelican Rapids, and Frazee to talk with the students about energy efficiency in their homes, educated them about why utilities have conservation programs, and provided the students with energy kits including light bulbs low flow showerheads, and other low-cost energy saving ideas and

equipment.

The level of expenditures for advertisements and promotions in the Company's CIP program for 2013-2016 period is provided in Table D-6 below:

**Table D-6: Great Plains Annual Expenditures for Advertising and Promotion**

Year	Expenditure
2013	\$ 6,890
2014	\$ -
2015	\$ -
2016	\$ 1,095
2013-2016 Average	\$ 1,996

*D-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 2015 in Table D-7 below.

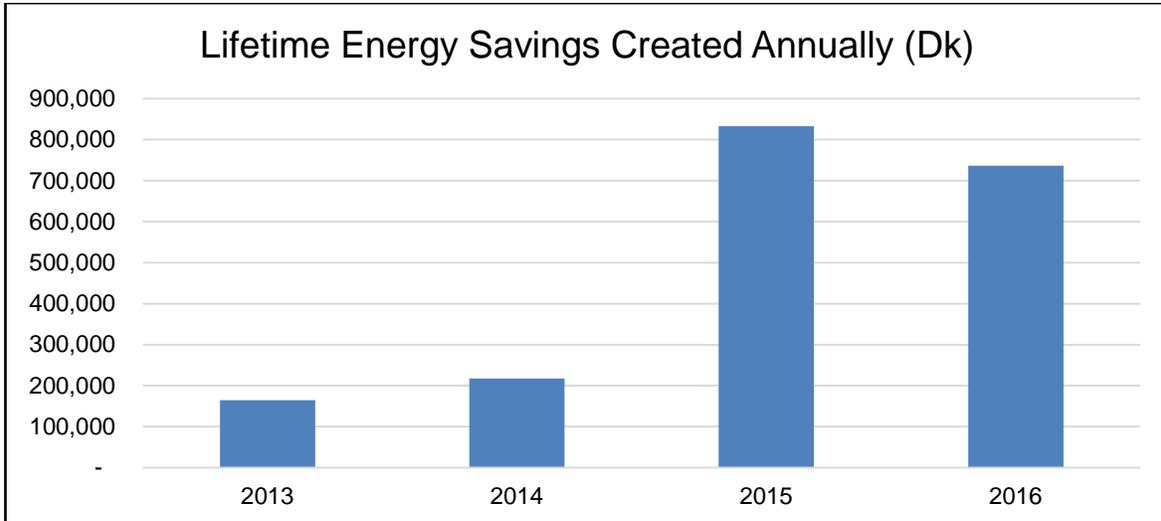
**Table D-7: Great Plains Annual CIP Recovery by Rate Class**

Rate Class	2013 1/	2014 1/	2015 1/	2016	2017 2/
Residential Rate - N60				\$28,110	\$108,081
Residential Rate - S60				32,173	120,194
Total Residential				60,283	228,275
Firm General - N70				21,099	81,400
Firm General - S70				30,139	115,434
Total Firm General				51,238	196,834
Small IT Sales Rate - N71				13,999	43,252
Small IT Transport - N81				2,323	8,411
Small IT North - Total				16,322	51,663
Small IT Sales Rate - S71				14,741	55,880
Small IT Transport - S81				960	4,049
Small IT South - Total				15,701	59,929
Large IT Sales Rate - N85				11,391	44,565
Large IT Transport Rate - N82 3/				31,543	103,520
Large IT North - Total				42,934	148,085
Large IT Sales Rate - S85				2,329	9,976
Large IT Transport Rate - S82 3/				112,977	405,442
Large IT South - Total				115,306	415,418
Total Minnesota	\$530,277	\$784,249	\$499,061	\$301,784	\$1,100,204
1/ Information not available by rate class.					
2/ CIP recovery through September 30, 2017.					
3/ Includes recovery under flex contract rates.					

*D-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?*

Graph D-8 below shows the annual level of lifetime energy savings for the Company's CIP for the years comprising the pre-decoupling baseline period.

**Graph D-8: Annual Lifetime Energy Savings for the Great Plains CIP**



*D-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?*

As mentioned above, this is the Company's first Full Revenue Decoupling Evaluation Report. Therefore, the Company provides an overview of participation, cost-effectiveness, and energy savings over the 2013-2015 CIP Triennial Period and 2016 extension program year.

Participation:

Great Plains has a small rural customer base with very low new customer growth in the service territory, therefore as you would expect our participation is primarily tied to the retrofit and replacement market for most of our CIP rebates. As reflected in Table D-9a below, participation in the Company's CIP program is stable as well and averages approximately 1,100 participants per year for the 2013-2016 program years.

Great Plains offers a robust portfolio of energy efficiency programs that cover

most end use technologies for all customers and continues to introduce new CIP projects and offerings to meet the needs of its customers and thus increase the participation in the Company's CIP.

**Table D-9a: Great Plains Annual CIP Participation**

<b>Year</b>	<b>Actual Participation</b>
2013	1,023
2014	1,311
2015	1,121
2016	911
2013-2016 Average	1,092

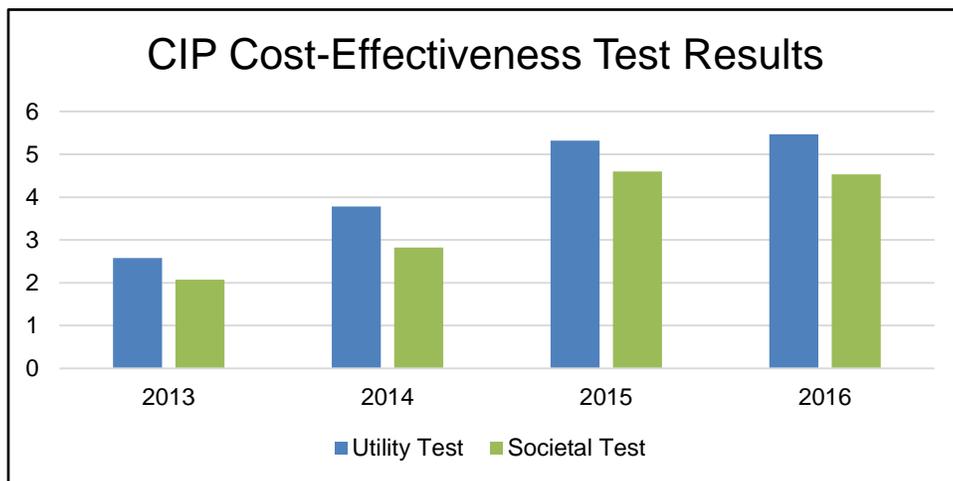
Cost-effectiveness:

Table D-9b below, shows the cost-effectiveness test scores for each CIP Program year from 2013 to 2016 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 the benefits are greater than the costs and the program is 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. The primary difference between these tests are the societal test includes the cost to participants as well as the cost of the 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 test scores are influenced by a variety of factors, some a result of program achievements like energy savings or budget. 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. 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 energy efficiency 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 2013. This means that 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.

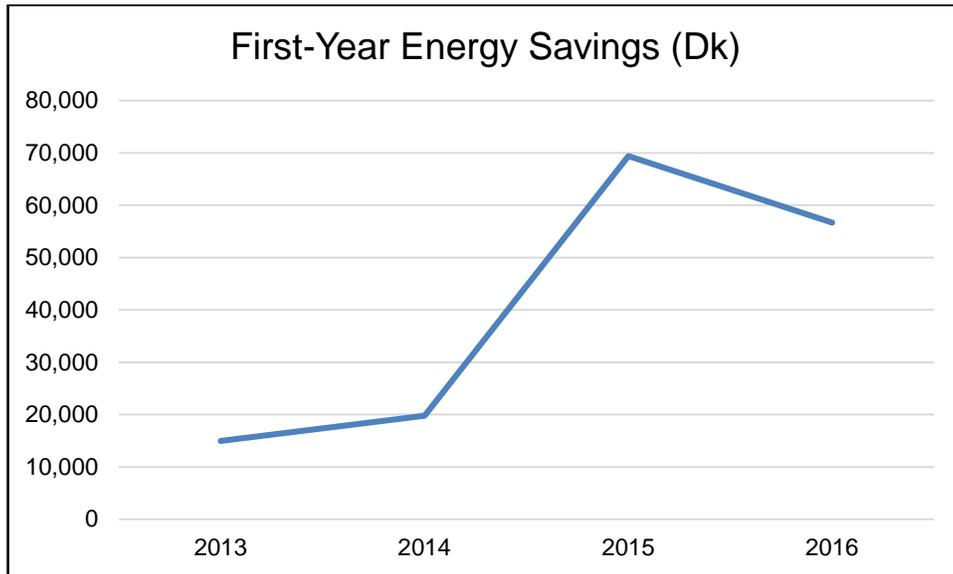
**Graph D-9b: Great Plains CIP Cost-Effectiveness Test Results**



Energy Savings:

First-year energy savings is a key metric in determining the success and effectiveness of an energy efficiency program. As mentioned above, Great Plains has a small rural customer base with very low new customer growth in the service territory, and therefore the first-year energy savings is significantly impacted by participation in the Company's custom efficiency program that is primarily used by large commercial and industrial customers. As shown in in Table D-9c below, annual first year energy savings achievements have increased dramatically from 2013 to 2016. The achievements in 2015 and 2016 where driven by completion of a few large custom efficiency projects, while stable participation was experienced in the prescriptive residential and commercial segments.

**Graph D-9c: Great Plains CIP First-Year Energy Savings Achievements**

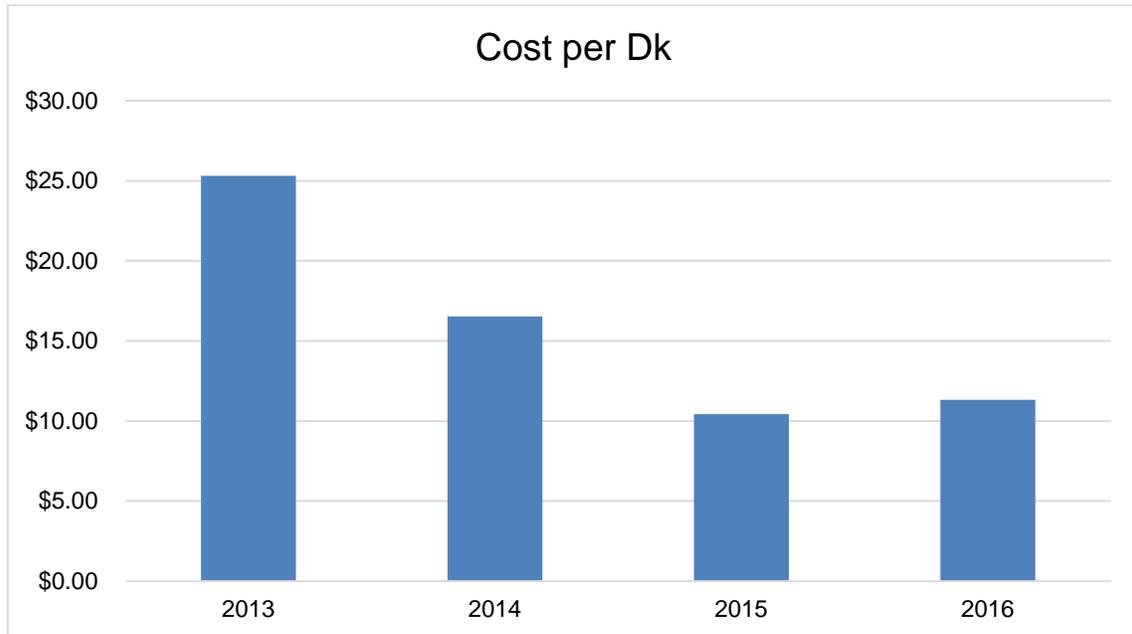


Cost per First-Year Energy Savings:

The cost to achieve incremental energy savings tends to increase as a utility strives to achieve greater levels of savings. This is because a utility must move beyond the easiest energy efficiency opportunities and pursue more expensive energy savings opportunities. However, Great Plains has experienced a significant decrease in the cost per unit of energy saved from 2013 to 2016; the cost per first-year energy savings achievements from 2013 to 2016 is shown below in Table D-9d.

The decrease in the Company's CIP cost per first-year energy savings is primarily driven by the increased participation in the Company's custom energy efficiency program that is typically more cost-effective on a cost per unit saved than the Company's other CIP prescriptive measures. Therefore, the Company's overall cost per unit of first-year energy savings is expected to fluctuate based on the participation in the Company's custom efficiency program.

**Graph D-9d: Great Plains CIP Cost per First-Year Energy Savings (Dk)**

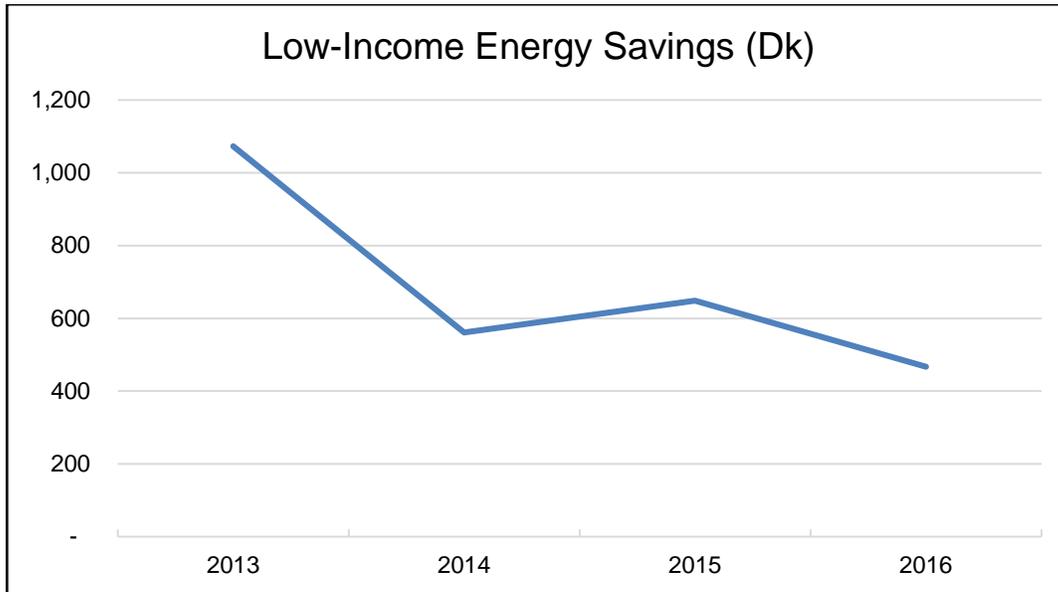


*D-10) Describe low-income specific programs and/or impacts. What were the low-income CIP savings for the post-decoupling implementation time period compared to the pre-decoupling period?*

Great Plains offers conservation measures to low income customers through three programs. The first of the three programs is the funding of weatherization measures through Community Action partnership (CAP) agencies and the maximum funding available to the CAP agency for a qualified customer is \$1,800 for weatherization. The second program provides funding for an emergency replacement of a furnace or boiler. The maximum funding available to the CAP agency per emergency is \$2,500 for a furnace replacement and \$5,000 for a boiler replacement. The third program provides funding for furnace and boiler tune-ups for qualified low-income customers. The maximum funding available to the CAP agency per furnace or boiler tune-up is \$200.

Graph D-10 shows the annual energy savings achieved in the Company's low-income projects from 2007 to 2015.

**Graph D-10: Great Plains CIP Energy Savings from Low-Income Projects**



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

Great Plains is committed to energy efficiency and the Company consistently strives to meet or exceed its annual energy savings goal. This is clearly demonstrated by the information contained in this report and the growth seen in annual energy savings from 2013-2016. Great Plains is a small natural gas distribution company with very low new customer growth, however the Company offers a robust and comprehensive portfolio of efficiency programs and continuously seeks to improve its CIP offerings in order to achieve more energy savings and meet customer's needs.

Company personnel regularly attend trade shows, industry conferences, and other events in order to develop new ideas for program enhancements and to stay abreast of energy efficiency trends.

Finally, as additional evidence of Great Plain’s continued commitment to conservation and energy efficiency the Company’s 2017-2019 CIP Triennial Plan includes a stable energy savings goal as compared to this study period and provides for further enhanced program offerings to meet customer needs.

**E. RELATED RATE AND USAGE INFORMATION**

*E-1) Total Dekatherms by Rate Schedule - What were the total dekatherm sales and transportation volumes by rate schedule in the period being evaluated?*

**Table E-1: Actual and Authorized Dk by Rate Class 1/**

<b>Rate Class</b>	<b>Actuals 10/1/16 - 9/30/17</b>	<b>Authorized 1/1/16 - 12/31/16 2/</b>
Residential Rate - N60	602,412	693,245
Residential Rate - S60	675,685	773,680
Firm General - N70	447,124	528,173
Firm General - S70	633,205	775,947
Small IT Rates N71 & N81	350,351	376,652
Small IT Rates S71 & S81	374,402	380,202
Large IT Rates N85 & N82	327,319	271,268
Large IT Rates S85 & S82	1,694,483	996,847
<b>Total Minnesota</b>	<b>5,104,981</b>	<b>4,796,014</b>
1/ Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879		
2/ Projected 2016 as authorized in Docket No. G004/GR-15-879		

The sales and transportation volumes shown in Table E-1 reflect the actual sales and transportation Dk billed customers by rate schedule for the twelve months ended September 30, 2017, excluding the Dk billed transportation customers served under a flexible contract rate. The RDM is not applicable to customers served under a flexible contract rate and therefore these customers and their associated volumes and revenue are not included in any of the tables included in this evaluation report.

Also included in Table E-1 are the sales and transportation Dk by rate class

authorized in the Company's last general rate case, Docket No. G004/GR-15-879, and reflect a projected 2016 time period (January 1 through December 31).

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

**Table E-2: Total Margin by Rate Class 1/**

Rate Class	Actuals 10/1/16 - 9/30/17
Residential Rate - N60	\$1,970,986
Residential Rate - S60	1,935,822
Firm General - N70	1,087,370
Firm General - S70	1,280,599
Small IT Rates N71 & N81	535,915
Small IT Rates S71 & S81	550,126
Large IT Rates N85 & N82	399,344
Large IT Rates S85 & S82	674,513
Total Minnesota	\$8,434,675
1/ Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879.	

The margin revenue reflected in Table E-2 reflects the actual distribution revenues, excluding the CCRC, recorded by rate schedule for the twelve months ended September 30, 2017.

*E-3) Customer Growth - What was the average annual gas customer growth by rate schedule for the period being evaluated? How does this compare to Great Plains Natural Gas Co.'s historical levels of gas customer growth prior to the Company's decoupling mechanism? What were the average annual customer count totals by rate schedule for the period being evaluated?*

The customer growth rates by rate schedule are shown in Table E-3A and reflect the customer growth rates by year for the 12 months ending September 30 of each respective year. The Company's RDM tariff states the initial report shall reflect a twelve-month period beginning October 1, 2016, the first day of the month following the final order of the Commission in Docket No. G004/GR-15-879. Therefore, the customer growth rates included in Table E-3A for the year 2017 reflect the customer

growth rates for October 1, 2016 through September 30, 2017 and the other three years included in the table being defined as the Company's pre-decoupling period.

**Table E-3A: Customer Growth**

Rate Class	2017	2016	2015	2014
Residential Rate - N60	0.7%	0.5%	0.6%	1.2%
Residential Rate - S60	0.4%	-2.1%	2.4%	1.0%
Firm General - N70	2.4%	-0.4%	4.8%	3.5%
Firm General - S70	2.1%	0.4%	4.4%	5.4%
Small IT Rates N71 & N81	-10.5%	-1.3%	4.1%	5.7%
Small IT Rates S71 & S81	-8.1%	2.8%	2.9%	-1.4%
Large IT Rates N85 & N82	-16.7%	0.0%	20.0%	0.0%
Large IT Rates S85 & S82	0.0%	-36.4%	57.1%	0.0%
Total Minnesota	0.7%	-0.8%	2.0%	1.6%

Table E-3B shows the customer counts by rate schedule for the each of the respective twelve-month periods ending September 30 of each respective year. Also included in Table E-3B is the level of customers by rate schedule authorized in the Company's last general rate case, Docket No. G004/GR-15-879.

**Table E-3B: Customer Counts 1/**

Rate Class	Authorized	2017	2016	2015	2014	2013
Residential Rate - N60	8,499	8,453	8,398	8,359	8,310	8,211
Residential Rate - S60	10,337	10,284	10,247	10,465	10,215	10,111
Firm General - N70	1,271	1,270	1,240	1,245	1,188	1,148
Firm General - S70	1,731	1,740	1,705	1,699	1,627	1,543
Small IT Rates N71 & N81	72	68	76	77	74	70
Small IT Rates S71 & S81	72	68	74	72	70	71
Large IT Rates N85 & N82	5	5	6	6	5	5
Large IT Rates S85 & S82	7	7	7	11	7	7
Total Minnesota	21,994	21,895	21,753	21,934	21,496	21,166
% Residential	86%	86%	86%	86%	86%	87%

1/ Residential and Firm General customers reflect the average billing determinants for the twelve months ended September 30 of each year. All other classes reflect the maximum number of customers taking service under the applicable rate for the twelve months ended September 30 of each year  
Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879.

The Residential and Firm General rate classes reflect the average annual customer counts by rate schedule consistent with the methodology used for these rate

classes' customer counts in the Company's 2015 general rate case. The remaining classes reflect the total number of customers served under the applicable rate schedule for the twelve-month period ending September 30 of each respective year, consistent with the methodology used for the customer counts in the Company's 2015 general rate case.

*E-4) Percentage of customers (count and sales volume) residential versus firm general and interruptible service. What proportion of customers subject to decoupling was residential versus firm general and interruptible?*

As shown in Table E-3B, 86 percent of the Company's customers are residential. Table E-4 reflects the Dk sales by rate class for the twelve-month period ending September 30 of each respective year, excluding transportation customers served under a flexible contract rate. Table E-4 shows residential Dk sales account for 25 percent of the Company's Dk use for the years 2016 and 2017 and between 31 percent and 33 percent in the prior three years.

**Table E-4: Actual Dk Usage 1/ 2/**

Rate Class	Authorized	2017	2016	2015	2014	2013
Residential Rate - N60	693,245	602,412	573,218	669,443	747,572	675,784
Residential Rate - S60	773,680	675,685	642,807	730,462	867,544	778,378
Firm General - N70	528,173	447,124	422,950	347,161	545,788	481,419
Firm General - S70	775,947	633,205	609,705	804,498	741,052	675,315
Small IT Rates N71 & N81	376,652	350,351	300,013	364,767	400,049	312,290
Small IT Rates S71 & S81	380,202	374,402	286,514	356,699	434,753	304,637
Large IT Rates N85 & N82	271,268	327,319	289,574	242,914	274,593	276,484
Large IT Rates S85 & S82	996,847	1,694,483	1,773,334	962,023	928,184	1,019,071
Total Minnesota	4,796,014	5,104,981	4,898,115	4,477,967	4,939,535	4,523,378
% Residential	31%	25%	25%	31%	33%	32%

1/ Twelve months ending September 30

2/ Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879.

*E-5) Use per Customer – On a rate class basis, how has the actual annual gas use per customer changed?*

**Table E-5: Actual Use per Customer**

Rate Class	Authorized	2017	2016	2015	2014	2013
Residential Rate - N60	81.6	71.3	68.3	80.1	90.0	82.3
Residential Rate - S60	74.8	65.7	62.7	69.8	84.9	77.0
Firm General - N70	415.6	352.1	341.1	278.8	459.4	419.4
Firm General - S70	448.3	363.9	357.6	473.5	455.5	437.7
Small IT Rates N71 & N81	5,231.3	5,152.2	3,947.5	4,737.2	5,406.1	4,461.3
Small IT Rates S71 & S81	5,280.6	5,505.9	3,871.8	4,954.2	6,210.8	4,290.7
Large IT Rates N85 & N82	54,253.6	65,463.8	48,262.3	40,485.7	54,918.6	55,296.8
Large IT Rates S85 & S82	142,406.7	242,069.0	253,333.4	87,456.6	132,597.7	145,581.6

*E-6) Customer Information – impact on model*

- a) *What was the impact of new customers and/or customer migration on the decoupling calculations for the period being evaluated? Specifically, what was:*
- i. The number of customers used (by rate class) in the decoupling calculations,*
  - ii. The number of customers approved (by rate class) in the most recent general rate case (Docket No. G004/GR-15-879),*
  - iii. The difference between i and ii,*
  - iv. The margin associated with iii, and*
  - v. The per customer impact of iv.*

The number of actual monthly customers by rate class is included in Attachment A as are the authorized customers as approved in the Company's most recent general rate case, Docket No. G004/GR-15-879. Table E-6 shows the difference in annual customers when comparing the total number of actual customers to that authorized. The difference in customers can mainly be attributed to an over projection in customers for the Residential and Firm General rate classes and customer migration and new or stopped service under the remaining rate classes.

**Table E-6: Impact of New Customers**

Rate Class	Authorized Customers	2017 Customers	Difference	Authorized Margin per Customer	Margin Associated with Customer Difference
Residential Rate - N60	8,499	8,453	(46)	\$ 252.44	(\$11,612)
Residential Rate - S60	10,337	10,284	(53)	201.60	(10,685)
Firm General - N70	1,271	1,270	(1)	956.87	(957)
Firm General - S70	1,731	1,740	9	838.46	7,546
Small IT Rates N71 & N81	72	68	(4)	7,898.81	(31,595)
Small IT Rates S71 & S81	72	68	(4)	7,784.72	(31,139)
Large IT Rates N85 & N82	5	5	0	72,135.33	0
Large IT Rates S85 & S82	7	7	0	57,311.29	0
Total Minnesota	21,994	21,895	(99)		(\$78,442)

- b) *Did Great Plains Natural Gas Co. implement any changes to the methodology to account for new customers during the pilot?*

One new customer did require a proxy revenue determination in order to account for the customer now taking service that was not active and was not included in the Company's last rate case. When volumes were forecasted for that case, the Company did not have any customers taking service under the Large IT Transport Service – Rate N82 tariff. However, one new customer did begin taking service under Rate N82 prior to the beginning of the initial decoupling evaluation period. In the RDM model, a comparison of actual revenue is made to authorized revenue; however, with no Rate N82 customers projected in the 2015 rate case there is no stated authorized revenue. As a proxy revenue determination for this evaluation period, the Company set the monthly actual sales to be the authorized sales for this new customer so that there would be no impact as a result of the new customer.

- c) *What were the monthly numbers of customers served, by rate class, in the evaluation period?*

Attachment A includes the actual monthly customers by rate class for this first evaluation period.

- d) *For the evaluation period being reported on, what was the actual average annual usage for customers subject to the decoupling rider?*

Table E-5 shows the actual average annual use per customer for the years

2013 through 2017.

*E-7) Class Migration Information*

a) *What was the annual number of customer migrations between rate classes during the during the time of the pilot?*

Two customers that were included as Small Interruptible Sales Service Rate N71 customers in the Company's last general rate case, have since initiated service under Small Interruptible Transportation Service Rate N81 and one new customer initiated service in early 2016 under Large Interruptible Transportation Service Rate N82.

b) *Based on the answer to a) above, did customer 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 available) Dk use resulting from customer migrations between rate classes.*

The shift of customers mentioned above had minimal impact on the decoupling calculations. The two customers moving from Rate N71 to Rate N81 constitute an intra-rate class move for purposes of the decoupling calculation (as Small Interruptible Rates N71 and N81 are calculated together). See section E-6b above for a discussion regarding the new customer taking service under rate N82. Table E-7 summarizes the three noted customers that have either migrated or initiated service since the Company's last general rate case, noting the customer's current rate schedule, previous rate schedule, and volumes.

**Table E-7: Customer Review**

<b>Rate Class</b>	<b>Current Rate Schedule</b>	<b>Previous Rate Schedule</b>	<b>Customer's Dk (2017)</b>	<b>Customer's Dk (Rate Case)</b>
Customer 1	N81	N71	9,087	6,781
Customer 2	N81	N71	4,026	24,121
Customer 3	N82		86,120	

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

Yes, Great Plains Natural Gas Co. routinely reviews a number of reports to ensure customers are correctly served under the appropriate rate schedule.

The customer migration noted in Section E-6a was not the result of these audits, but rather a customer request.

## **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

The Company searched all available credit rating agency reports available and did not find any references to Great Plains Natural Gas Co.'s decoupling program.

#### Financial Analyst Reports

The Company searched all available financial analyst reports and did not find any references to Great Plains Natural Gas Co.'s decoupling program.

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

#### **a) *Problems encountered – suggestions for improvement***

Great Plains has no additional information to report at this time.

#### **b) *Impact on service quality***

The most recent Service Quality report for 2016 was filed on April 24, 2017 under Docket No. G-004/M-17-353. The Company believes that the RDM has had no impact on the quality of service customers have received during the evaluation period.

#### **c) *Other***

In the Final Order of the Company's most recent rate case, the Commission ordered the Company, in its annual decoupling reports, to provide calculations of its decoupling adjustments derived using a per-customer

method and a per-customer-class method proposed by Commission Staff.

As stated earlier, the Company determines the decoupling adjustment for each rate class by comparing actual non-gas revenues to the designed non-gas revenues. The designed non-gas revenue is computed as authorized margin per customer times the greater of actual customers or authorized customers, where authorized margin per customer is non-gas revenues divided by the number of customers per rate class as authorized in the Company's last general rate case. The formula could have been stated another way to reflect the calculation: The Designed Revenues equals the authorized margin per customer multiplied by the authorized customers unless the actual customers are greater than authorized, in which case the actual customers multiplied by authorized margin per customer equals Designed Revenues. The purpose of using the greater of actual or authorized customer counts is to allow for customer growth in excess of authorized to provide incremental revenues necessary to recover any required investment necessary to connect the new customer in accordance with the authorized gas extension policies. The RDM should not penalize the Company by limiting Designed Revenues to the authorized margin times the lower than actual authorized customer count.

The Company continues to advocate that the formula set forth in the Revenue Decoupling rate schedule is consistent with the formula used by other utilities with Gas Decoupling programs and does not provide the Company the option of picking and choosing the metric that is most advantageous to the Company. The Company's understanding is that Commission Staff interpreted its formula as two separate calculations and termed the two calculations or methodologies referenced as 1) total revenues and 2) per-customer. It is the Company's understanding that the total revenues option referred to by Staff is what the Commission noted as the per-customer-class method in its Final Order. Staff recommended that the Company use one of the two "options", effectively eliminating the part of

the Company's calculation that utilizes the greater of actual or authorized customer counts.

Each "option" essentially eliminates a customer count safeguard that the authorized calculation method builds in. Under the assumption that actual use per customer is exactly as authorized, the total revenue or per-customer-class option would effectively force the Company to forfeit any customer growth beyond authorized levels, while the per-customer option potentially prevents the Company from recovering its authorized revenue requirement in a situation when actual customer count is less than authorized. Further unintended consequences can occur under the latter scenario if customers happen to have higher than authorized use per customer, which can result in a refund being issued even though less than the authorized revenue requirement amount has been collected. This exact scenario played out with the Small Interruptible – S71 & S81 rate class for the first evaluation period. The same could result if the opposite were true and customer count exceeded authorized levels but use per customer was low. The Company could end up issuing a surcharge even though ample dollars were collected to satisfy the authorized revenue requirement.

The Company's chosen calculation automatically protects against these unintended results. Attachment B includes a schedule for each rate class showing how the two alternate options would have worked in practice for the first evaluation period.

**G. ATTACHMENT LIST**

A: RDM Detailed Calculations

B: Alternate Decoupling Adjustment Calculations

**Decoupling Adjustment Factor Calculations Summary 1/**

<b>Rate Class</b>	<b>Capped Decoupling Adjustment</b>	<b>Forecast Volumes (2018) 2/</b>	<b>Decoupling Adjustment / Dk</b>
Residential Rate - N60	\$ 185,034	651,117	\$ 0.2842
Residential Rate - S60	150,890	753,410	\$ 0.2003
Firm General - N70	121,618	495,583	\$ 0.2454
Firm General - S70	145,842	726,456	\$ 0.2008
Small Interruptible - N71 & N81	38,252	361,186	\$ 0.1059
Small Interruptible - S71 & S81	14,648	310,140	\$ 0.0472
Large Interruptible - N85 & N82	37,751	320,431	\$ 0.1178
Large Interruptible - S85 & S82	(265,730)	1,694,356	\$ (0.1568)

1/ Excluding flexible rate contract customers as authorized in Docket No. G004/GR-15-879.

2/ For sales rates the forecast volumes are normalized volumes forecast for 2018. For transport rates the actual volumes for the 12 months ended September 2017 were used.

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Residential Rate - N60**

Residential Rate - N60	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Authorized Customers 1/	8,241	8,302	8,730	8,608	8,506	8,608	8,731	8,741	8,486	8,353	8,404	8,282	8,499
Authorized Sales - Dk 1/	24,125	64,056	91,300	139,619	131,717	97,054	71,682	36,603	13,865	7,279	6,101	9,844	693,245
Authorized Basic Service Charge 1/	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 90.00
Authorized Distribution Charge excluding CIP 1/	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915	\$ 1,9915
Authorized Basic Service Charge Revenues	\$ 61,808	\$ 62,265	\$ 65,475	\$ 64,560	\$ 63,795	\$ 64,560	\$ 65,483	\$ 65,558	\$ 63,645	\$ 62,648	\$ 63,030	\$ 62,115	\$ 764,910
Authorized Distribution Charge Revenues (excl CIP)	\$ 48,045	\$ 127,568	\$ 181,824	\$ 278,051	\$ 262,314	\$ 193,283	\$ 142,755	\$ 72,895	\$ 27,612	\$ 14,496	\$ 12,150	\$ 19,604	\$ 1,380,597
Authorized Non-Gas Revenues	\$ 109,853	\$ 189,833	\$ 247,299	\$ 342,611	\$ 326,109	\$ 257,843	\$ 208,238	\$ 138,453	\$ 91,257	\$ 77,144	\$ 75,180	\$ 81,719	\$ 2,145,507
<b>Authorized Margin per Customer</b>	<b>\$ 13.33</b>	<b>\$ 22.87</b>	<b>\$ 28.33</b>	<b>\$ 39.80</b>	<b>\$ 38.34</b>	<b>\$ 29.95</b>	<b>\$ 23.85</b>	<b>\$ 15.84</b>	<b>\$ 10.75</b>	<b>\$ 9.24</b>	<b>\$ 8.95</b>	<b>\$ 9.87</b>	<b>\$ 252.44</b>
Actual Customers	8,280	8,327	8,392	8,471	8,361	8,651	8,399	8,436	8,539	8,573	8,525	8,476	8,453
Actual Sales - Dk	14,406	32,805	77,424	134,787	104,073	99,734	62,407	37,926	17,300	7,363	7,126	7,062	602,412
Actual Basic Service Charge Revenues	\$ 62,100	\$ 62,453	\$ 62,940	\$ 63,533	\$ 62,708	\$ 64,883	\$ 62,993	\$ 63,270	\$ 64,043	\$ 64,298	\$ 63,938	\$ 63,570	\$ 760,770
Actual Distribution Charge Revenues (excl CIP)	\$ 28,690	\$ 65,331	\$ 154,190	\$ 268,428	\$ 207,261	\$ 198,620	\$ 124,284	\$ 75,529	\$ 34,452	\$ 14,664	\$ 14,191	\$ 14,064	\$ 1,199,703
Actual Non-Gas Revenues	\$ 90,790	\$ 127,784	\$ 217,130	\$ 331,961	\$ 269,969	\$ 263,503	\$ 187,277	\$ 138,799	\$ 98,495	\$ 78,962	\$ 78,129	\$ 77,634	\$ 1,960,473
Designed Non-Gas Revenues 2/	\$ 110,372	\$ 190,438	\$ 247,299	\$ 342,611	\$ 326,109	\$ 259,097	\$ 208,238	\$ 138,453	\$ 91,794	\$ 79,215	\$ 76,299	\$ 83,658	\$ 2,145,507
Under / (Over) Collection	\$ 19,582	\$ 62,654	\$ 30,169	\$ 10,650	\$ 56,140	\$ (4,406)	\$ 20,961	\$ (346)	\$ (6,701)	\$ 253	\$ (1,830)	\$ 6,024	\$ 185,034

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 2,145,507
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 214,551

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Residential Rate - S60**

Residential Rate - S60	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Authorized Customers 1/	10,073	10,023	10,706	10,346	10,358	10,346	10,519	10,470	10,730	10,321	10,159	9,998	10,337
Authorized Sales - Dk 1/	19,574	64,061	109,863	161,621	158,914	111,178	79,766	39,226	12,147	5,338	5,184	6,808	773,680
Authorized Basic Service Charge 1/	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 90.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911
Authorized Basic Service Charge Revenues	\$ 75,548	\$ 75,173	\$ 80,295	\$ 77,595	\$ 77,685	\$ 77,595	\$ 78,893	\$ 78,525	\$ 80,475	\$ 77,408	\$ 76,193	\$ 74,985	\$ 930,330
Authorized Distribution Charge Revenues (excl CIP)	\$ 29,187	\$ 95,521	\$ 163,817	\$ 240,993	\$ 236,957	\$ 165,778	\$ 118,939	\$ 58,490	\$ 18,112	\$ 7,959	\$ 7,730	\$ 10,151	\$ 1,153,634
Authorized Non-Gas Revenues	\$ 104,735	\$ 170,694	\$ 244,112	\$ 318,588	\$ 314,642	\$ 243,373	\$ 197,832	\$ 137,015	\$ 98,587	\$ 85,367	\$ 83,923	\$ 85,136	\$ 2,083,964
<b>Authorized Margin per Customer</b>	<b>\$ 10.40</b>	<b>\$ 17.03</b>	<b>\$ 22.80</b>	<b>\$ 30.79</b>	<b>\$ 30.38</b>	<b>\$ 23.52</b>	<b>\$ 18.81</b>	<b>\$ 13.09</b>	<b>\$ 9.19</b>	<b>\$ 8.27</b>	<b>\$ 8.26</b>	<b>\$ 8.52</b>	<b>\$ 201.60</b>
Actual Customers	10,215	10,258	10,218	10,246	10,228	10,418	10,218	10,356	10,461	10,359	10,177	10,250	10,284
Actual Sales - Dk	13,433	32,563	96,141	152,998	119,310	108,042	70,315	41,446	19,326	7,366	7,596	7,150	675,685
Actual Basic Service Charge Revenues	\$ 76,613	\$ 76,935	\$ 76,635	\$ 76,845	\$ 76,710	\$ 78,135	\$ 76,635	\$ 77,670	\$ 78,458	\$ 77,693	\$ 76,328	\$ 76,875	\$ 925,560
Actual Distribution Charge Revenues (excl CIP)	\$ 20,030	\$ 48,555	\$ 143,356	\$ 228,135	\$ 177,903	\$ 161,101	\$ 104,847	\$ 61,800	\$ 28,816	\$ 10,983	\$ 11,327	\$ 10,661	\$ 1,007,514
Actual Non-Gas Revenues	\$ 96,643	\$ 125,490	\$ 219,991	\$ 304,980	\$ 254,613	\$ 239,236	\$ 181,482	\$ 139,470	\$ 107,274	\$ 88,676	\$ 87,655	\$ 87,536	\$ 1,933,074
Designed Non-Gas Revenues 2/	\$ 106,236	\$ 174,694	\$ 244,112	\$ 318,588	\$ 314,642	\$ 245,031	\$ 197,832	\$ 137,015	\$ 98,587	\$ 85,669	\$ 84,062	\$ 87,330	\$ 2,083,964
Under / (Over) Collection	\$ 9,593	\$ 49,204	\$ 24,121	\$ 13,608	\$ 60,029	\$ 5,795	\$ 16,350	\$ (2,455)	\$ (8,687)	\$ (3,007)	\$ (3,593)	\$ (206)	\$ 150,890

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 2,083,964
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 208,396

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Firm General - N70**

Firm General - N70	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small Firm - Authorized Customers 1/	797	732	865	840	815	821	824	811	807	793	792	789	808
Large Firm - Authorized Customers 1/	459	458	489	469	462	452	451	457	454	467	482	463	463
Authorized Sales - Dk 1/	22,218	47,460	68,731	99,234	92,608	68,601	51,321	29,316	14,790	10,985	10,482	12,427	528,173
Small Firm Authorized Basic Service Charge 1/	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 276.00
Large Firm Authorized Basic Service Charge 1/	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 342.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806
Authorized Basic Service Charge Revenues	\$ 31,413	\$ 29,889	\$ 33,832	\$ 32,687	\$ 31,912	\$ 31,765	\$ 31,806	\$ 31,678	\$ 31,500	\$ 31,549	\$ 31,953	\$ 31,343	\$ 381,354
Authorized Distribution Charge Revenues (excl CIP)	\$ 35,118	\$ 75,015	\$ 108,636	\$ 156,849	\$ 146,376	\$ 108,431	\$ 81,118	\$ 46,337	\$ 23,377	\$ 17,363	\$ 16,568	\$ 19,642	\$ 834,830
Authorized Non-Gas Revenues	\$ 66,531	\$ 104,904	\$ 142,468	\$ 189,536	\$ 178,288	\$ 140,196	\$ 112,924	\$ 78,015	\$ 54,877	\$ 48,912	\$ 48,521	\$ 50,985	\$ 1,216,184
<b>Authorized Margin per Customer</b>	<b>\$ 52.97</b>	<b>\$ 88.15</b>	<b>\$ 105.22</b>	<b>\$ 144.79</b>	<b>\$ 139.61</b>	<b>\$ 110.13</b>	<b>\$ 88.57</b>	<b>\$ 61.53</b>	<b>\$ 43.52</b>	<b>\$ 38.82</b>	<b>\$ 38.09</b>	<b>\$ 40.72</b>	<b>\$ 956.87</b>
Small Firm - Actual Customers	803	816	807	822	821	851	868	816	805	791	819	807	819
Large Firm - Actual Customers	440	436	442	450	486	443	525	439	440	431	438	444	451
Actual Sales - Dk	15,751	24,371	60,127	90,560	68,754	67,819	41,057	28,572	16,335	11,178	11,476	11,124	447,124
Actual Basic Service Charge Revenues	\$ 31,009	\$ 31,194	\$ 31,158	\$ 31,731	\$ 32,734	\$ 32,199	\$ 34,927	\$ 31,280	\$ 31,055	\$ 30,477	\$ 31,320	\$ 31,215	\$ 380,286
Actual Distribution Charge Revenues (excl CIP)	\$ 24,896	\$ 38,521	\$ 95,037	\$ 143,139	\$ 108,673	\$ 107,195	\$ 64,895	\$ 45,161	\$ 25,819	\$ 17,667	\$ 18,138	\$ 17,583	\$ 706,724
Actual Non-Gas Revenues	\$ 55,905	\$ 69,715	\$ 126,195	\$ 174,870	\$ 141,407	\$ 139,394	\$ 99,822	\$ 76,441	\$ 56,874	\$ 48,144	\$ 49,458	\$ 48,798	\$ 1,087,010
Designed Non-Gas Revenues 2/	\$ 66,531	\$ 110,364	\$ 142,468	\$ 189,536	\$ 182,470	\$ 142,508	\$ 123,378	\$ 78,015	\$ 54,877	\$ 48,912	\$ 48,521	\$ 50,985	\$ 1,216,184
Under / (Over) Collection	\$ 10,626	\$ 40,649	\$ 16,273	\$ 14,666	\$ 41,063	\$ 3,114	\$ 23,556	\$ 1,574	\$ (1,997)	\$ 768	\$ (937)	\$ 2,187	\$ 129,174

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 1,216,184
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 121,618

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Firm General - S70**

Firm General - S70	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small Firm - Authorized Customers 1/	1,082	1,050	1,164	1,147	1,172	1,112	1,132	1,159	1,137	1,098	1,096	1,064	1,118
Large Firm - Authorized Customers 1/	634	602	624	614	634	589	614	584	611	609	618	631	614
Authorized Sales - Dk 1/	29,176	63,766	101,213	145,318	145,907	99,858	76,145	42,494	21,261	16,362	16,491	17,956	775,947
Small Firm Authorized Basic Service Charge 1/	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 276.00
Large Firm Authorized Basic Service Charge 1	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 342.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026	\$ 1.2026
Authorized Basic Service Charge Revenues	\$ 42,955	\$ 41,307	\$ 44,556	\$ 43,880	\$ 45,025	\$ 42,363	\$ 43,535	\$ 43,301	\$ 43,565	\$ 42,611	\$ 42,821	\$ 42,456	\$ 518,556
Authorized Distribution Charge Revenues (excl CIP)	\$ 35,087	\$ 76,685	\$ 121,719	\$ 174,759	\$ 175,468	\$ 120,089	\$ 91,572	\$ 51,103	\$ 25,568	\$ 19,677	\$ 19,832	\$ 21,594	\$ 933,154
Authorized Non-Gas Revenues	\$ 78,042	\$ 117,992	\$ 166,275	\$ 218,639	\$ 220,493	\$ 162,452	\$ 135,107	\$ 94,404	\$ 69,133	\$ 62,288	\$ 62,653	\$ 64,050	\$ 1,451,710
<b>Authorized Margin per Customer</b>	<b>\$ 45.48</b>	<b>\$ 71.42</b>	<b>\$ 92.99</b>	<b>\$ 124.16</b>	<b>\$ 122.09</b>	<b>\$ 95.50</b>	<b>\$ 77.38</b>	<b>\$ 54.16</b>	<b>\$ 39.55</b>	<b>\$ 36.49</b>	<b>\$ 36.55</b>	<b>\$ 37.79</b>	<b>\$ 838.17</b>
Small Firm - Actual Customers	1,116	1,114	1,114	1,125	1,124	1,151	1,166	1,129	1,139	1,097	1,116	1,092	1,124
Large Firm - Actual Customers	579	588	627	595	592	605	661	691	645	607	597	600	616
Actual Sales - Dk	18,986	29,928	78,893	130,624	105,379	94,166	62,724	39,726	24,919	15,416	16,869	15,577	633,206
Actual Basic Service Charge Revenues	\$ 42,170	\$ 42,380	\$ 43,492	\$ 42,833	\$ 42,724	\$ 43,716	\$ 45,657	\$ 45,661	\$ 44,580	\$ 42,531	\$ 42,683	\$ 42,216	\$ 520,896
Actual Distribution Charge Revenues (excl CIP)	\$ 22,833	\$ 35,991	\$ 94,877	\$ 157,089	\$ 126,728	\$ 113,244	\$ 75,432	\$ 47,775	\$ 29,967	\$ 18,539	\$ 20,287	\$ 18,733	\$ 761,494
Actual Non-Gas Revenues	\$ 65,003	\$ 78,371	\$ 138,369	\$ 199,922	\$ 169,452	\$ 156,960	\$ 121,089	\$ 93,436	\$ 74,547	\$ 61,070	\$ 62,970	\$ 60,949	\$ 1,282,390
Designed Non-Gas Revenues 2/	\$ 78,042	\$ 121,557	\$ 166,275	\$ 218,639	\$ 220,493	\$ 167,698	\$ 141,373	\$ 98,571	\$ 70,557	\$ 62,288	\$ 62,653	\$ 64,050	\$ 1,458,416
<b>Under / (Over) Collection</b>	<b>\$ 13,039</b>	<b>\$ 43,186</b>	<b>\$ 27,906</b>	<b>\$ 18,717</b>	<b>\$ 51,041</b>	<b>\$ 10,738</b>	<b>\$ 20,284</b>	<b>\$ 5,135</b>	<b>\$ (3,990)</b>	<b>\$ 1,218</b>	<b>\$ (317)</b>	<b>\$ 3,101</b>	<b>\$ 176,026</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 1,458,416
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 145,842

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Small Interruptible - North (N71 & N81)**

Small Interruptible - North (N71 & N81)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small IT Sales - Authorized Customers 1/	70	70	70	70	70	70	70	70	70	70	70	70	70
Small IT Transport - Authorized Customers 1/	2	2	2	2	2	2	2	2	2	2	2	2	2
Authorized Sales - Dk 1/	56,724	31,403	45,047	54,777	36,890	41,583	32,240	21,050	16,317	11,626	12,441	16,554	376,652
Small IT Sales Authorized Basic Service Charge 1/	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 1,740.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 2,400.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738	\$ 1.1738
Authorized Basic Service Charge Revenues	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 126,600
Authorized Distribution Charge Revenues (excl CIP)	\$ 66,583	\$ 36,861	\$ 52,876	\$ 64,297	\$ 43,301	\$ 48,810	\$ 37,843	\$ 24,708	\$ 19,153	\$ 13,647	\$ 14,603	\$ 19,431	\$ 442,114
Authorized Non-Gas Revenues	\$ 77,133	\$ 47,411	\$ 63,426	\$ 74,847	\$ 53,851	\$ 59,360	\$ 48,393	\$ 35,258	\$ 29,703	\$ 24,197	\$ 25,153	\$ 29,981	\$ 568,714
<b>Authorized Margin per Customer</b>	<b>\$ 1,071.29</b>	<b>\$ 658.49</b>	<b>\$ 880.92</b>	<b>\$ 1,039.54</b>	<b>\$ 747.93</b>	<b>\$ 824.44</b>	<b>\$ 672.13</b>	<b>\$ 489.69</b>	<b>\$ 412.54</b>	<b>\$ 336.07</b>	<b>\$ 349.35</b>	<b>\$ 416.40</b>	<b>\$ 7,898.81</b>
Small IT Sales - Actual Customers	63	62	63	63	63	62	62	62	63	64	62	63	63
Small IT Transport - Actual Customers	4	4	4	4	4	4	4	4	4	4	4	4	4
Actual Sales - Dk	18,814	61,681	42,700	51,698	42,773	38,528	30,703	20,771	13,549	9,205	8,186	11,744	350,351
Actual Basic Service Charge Revenues	\$ 9,935	\$ 9,790	\$ 9,935	\$ 9,935	\$ 9,935	\$ 9,790	\$ 9,790	\$ 9,790	\$ 9,935	\$ 10,080	\$ 9,790	\$ 9,935	\$ 119,220
Actual Distribution Charge Revenues (excl CIP)	\$ 22,084	\$ 72,401	\$ 50,121	\$ 60,683	\$ 50,206	\$ 45,224	\$ 36,039	\$ 24,381	\$ 15,904	\$ 10,805	\$ 9,608	\$ 13,785	\$ 411,242
Actual Non-Gas Revenues	\$ 32,019	\$ 82,191	\$ 60,056	\$ 70,618	\$ 60,141	\$ 55,014	\$ 45,829	\$ 34,171	\$ 25,839	\$ 20,885	\$ 19,398	\$ 23,720	\$ 530,462
Designed Non-Gas Revenues 2/	\$ 77,133	\$ 47,411	\$ 63,426	\$ 74,847	\$ 53,851	\$ 59,360	\$ 48,393	\$ 35,258	\$ 29,703	\$ 24,197	\$ 25,153	\$ 29,981	\$ 568,714
<b>Under / (Over) Collection</b>	<b>\$ 45,114</b>	<b>\$ (34,780)</b>	<b>\$ 3,370</b>	<b>\$ 4,229</b>	<b>\$ (6,290)</b>	<b>\$ 4,346</b>	<b>\$ 2,564</b>	<b>\$ 1,087</b>	<b>\$ 3,864</b>	<b>\$ 3,312</b>	<b>\$ 5,755</b>	<b>\$ 6,261</b>	<b>\$ 38,252</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 568,714
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 56,871

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Small Interruptible - South (S71 & S81)**

Small Interruptible - South (S71 & S81)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small IT Sales - Authorized Customers 1/	69	69	69	69	69	69	69	69	69	69	69	69	69
Small IT Transport - Authorized Customers 1/	3	3	3	3	3	3	3	3	3	3	3	3	3
Authorized Sales - DK 1/	63,803	33,809	28,842	38,881	41,275	28,884	31,413	25,875	29,782	20,876	19,152	17,610	380,202
Small IT Sales Authorized Basic Service Charge 1/	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 1,740.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 2,400.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395
Authorized Basic Service Charge Revenues	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 127,260
Authorized Distribution Charge Revenues (excl CIP)	\$ 72,704	\$ 38,525	\$ 32,865	\$ 44,305	\$ 47,033	\$ 32,913	\$ 35,795	\$ 29,485	\$ 33,937	\$ 23,788	\$ 21,824	\$ 20,067	\$ 433,240
Authorized Non-Gas Revenues	\$ 83,309	\$ 49,130	\$ 43,470	\$ 54,910	\$ 57,638	\$ 43,518	\$ 46,400	\$ 40,090	\$ 44,542	\$ 34,393	\$ 32,429	\$ 30,672	\$ 560,500
<b>Authorized Margin per Customer</b>	<b>\$ 1,157.07</b>	<b>\$ 682.36</b>	<b>\$ 603.75</b>	<b>\$ 762.64</b>	<b>\$ 800.53</b>	<b>\$ 604.42</b>	<b>\$ 644.44</b>	<b>\$ 556.81</b>	<b>\$ 618.64</b>	<b>\$ 477.68</b>	<b>\$ 450.40</b>	<b>\$ 426.00</b>	<b>\$ 7,784.72</b>
Small IT Sales - Actual Customers	63	62	63	63	63	62	62	62	63	64	62	63	63
Small IT Transport - Actual Customers	4	4	4	4	4	4	4	4	4	4	4	4	4
Actual Sales - DK	16,606	67,847	36,796	43,106	37,620	34,031	24,384	27,381	26,423	18,017	20,490	21,704	374,403
Actual Basic Service Charge Revenues	\$ 9,935	\$ 9,790	\$ 9,935	\$ 9,935	\$ 9,935	\$ 9,790	\$ 9,790	\$ 9,790	\$ 9,935	\$ 10,080	\$ 9,790	\$ 9,935	\$ 119,220
Actual Distribution Charge Revenues (excl CIP)	\$ 18,923	\$ 77,312	\$ 41,929	\$ 49,119	\$ 42,868	\$ 38,778	\$ 27,785	\$ 31,200	\$ 30,108	\$ 20,530	\$ 23,348	\$ 24,732	\$ 426,632
Actual Non-Gas Revenues	\$ 28,858	\$ 87,102	\$ 51,864	\$ 59,054	\$ 52,803	\$ 48,568	\$ 37,575	\$ 40,990	\$ 40,043	\$ 30,610	\$ 33,138	\$ 34,667	\$ 545,852
Designed Non-Gas Revenues 2/	\$ 83,309	\$ 49,130	\$ 43,470	\$ 54,910	\$ 57,638	\$ 43,518	\$ 46,400	\$ 40,090	\$ 44,542	\$ 34,393	\$ 32,429	\$ 30,672	\$ 560,500
<b>Under / (Over) Collection</b>	<b>\$ 54,451</b>	<b>\$ (37,972)</b>	<b>\$ (8,394)</b>	<b>\$ (4,144)</b>	<b>\$ 4,835</b>	<b>\$ (5,050)</b>	<b>\$ 8,825</b>	<b>\$ (900)</b>	<b>\$ 4,499</b>	<b>\$ 3,783</b>	<b>\$ (709)</b>	<b>\$ (3,995)</b>	<b>\$ 14,648</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 560,500
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 56,050

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Large Interruptible - North (N85 & N82)**

Large Interruptible - North (N85 & N82)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Large IT Sales - Authorized Customers 1/	5	5	5	5	5	5	5	5	5	5	5	5	5
Large IT Transport - Authorized Customers 1/	1	1	1	1	1	1	1	1	1	1	1	1	1
Authorized Sales - Dk 1/	29,389	29,366	29,225	31,625	32,930	34,495	37,282	25,766	29,850	29,297	22,663	25,500	357,388
Large IT Sales Authorized Basic Service Charge 1/	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 2,760.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 3,120.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637
Authorized Basic Service Charge Revenues	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 16,920
Authorized Distribution Charge Revenues (excl CIP)	\$ 34,200	\$ 34,173	\$ 34,009	\$ 36,802	\$ 38,321	\$ 40,142	\$ 43,385	\$ 29,984	\$ 34,736	\$ 34,093	\$ 26,373	\$ 29,674	\$ 415,892
Authorized Non-Gas Revenues	\$ 35,610	\$ 35,583	\$ 35,419	\$ 38,212	\$ 39,731	\$ 41,552	\$ 44,795	\$ 31,394	\$ 36,146	\$ 35,503	\$ 27,783	\$ 31,084	\$ 432,812
<b>Authorized Margin per Customer</b>	<b>\$ 5,935.00</b>	<b>\$ 5,930.50</b>	<b>\$ 5,903.17</b>	<b>\$ 6,368.67</b>	<b>\$ 6,621.83</b>	<b>\$ 6,925.33</b>	<b>\$ 7,465.83</b>	<b>\$ 5,232.33</b>	<b>\$ 6,024.33</b>	<b>\$ 5,917.17</b>	<b>\$ 4,630.50</b>	<b>\$ 5,180.67</b>	<b>\$ 72,135.33</b>
Large IT Sales - Actual Customers	4	4	4	4	4	4	4	4	4	4	4	4	4
Large IT Transport - Actual Customers	1	1	1	1	1	1	1	1	1	1	1	1	1
Actual Sales - Dk	26,262	27,365	27,715	29,578	27,644	31,885	30,221	28,162	27,851	23,792	22,936	23,909	327,319
Actual Basic Service Charge Revenues	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 14,160
Actual Distribution Charge Revenues (excl CIP)	\$ 30,561	\$ 31,845	\$ 32,252	\$ 34,420	\$ 32,169	\$ 37,105	\$ 35,168	\$ 32,772	\$ 32,410	\$ 27,687	\$ 26,691	\$ 27,822	\$ 380,901
Actual Non-Gas Revenues	\$ 31,741	\$ 33,025	\$ 33,432	\$ 35,600	\$ 33,349	\$ 38,285	\$ 36,348	\$ 33,952	\$ 33,590	\$ 28,867	\$ 27,871	\$ 29,002	\$ 395,061
Designed Non-Gas Revenues 2/	\$ 35,610	\$ 35,583	\$ 35,419	\$ 38,212	\$ 39,731	\$ 41,552	\$ 44,795	\$ 31,394	\$ 36,146	\$ 35,503	\$ 27,783	\$ 31,084	\$ 432,812
<b>Under / (Over) Collection</b>	<b>\$ 3,869</b>	<b>\$ 2,558</b>	<b>\$ 1,987</b>	<b>\$ 2,612</b>	<b>\$ 6,382</b>	<b>\$ 3,267</b>	<b>\$ 8,447</b>	<b>\$ (2,558)</b>	<b>\$ 2,556</b>	<b>\$ 6,636</b>	<b>\$ (88)</b>	<b>\$ 2,082</b>	<b>\$ 37,751</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 432,812
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 43,281

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Large Interruptible - South (S85 & S82)**

Large Interruptible - South (S85 & S82)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Large IT Sales - Authorized Customers 1/	1	1	1	1	1	1	1	1	1	1	1	1	1
Large IT Transport - Authorized Customers 1/	6	6	6	6	6	6	6	6	6	6	6	6	6
Authorized Sales - Dk 1/	73,457	119,300	141,280	132,844	133,258	125,253	122,867	43,833	23,234	23,119	22,148	36,254	996,847
Large IT Sales Authorized Basic Service Charge 1/	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 2,760.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 3,120.00
Authorized Distribution Charge excluding CIP 1/	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809
Authorized Basic Service Charge Revenues	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 21,480
Authorized Distribution Charge Revenues (excl CIP)	\$ 27,980	\$ 45,441	\$ 53,814	\$ 50,600	\$ 50,758	\$ 47,709	\$ 46,800	\$ 16,696	\$ 8,850	\$ 8,806	\$ 8,436	\$ 13,809	\$ 379,699
Authorized Non-Gas Revenues	\$ 29,770	\$ 47,231	\$ 55,604	\$ 52,390	\$ 52,548	\$ 49,499	\$ 48,590	\$ 18,486	\$ 10,640	\$ 10,596	\$ 10,226	\$ 15,599	\$ 401,179
<b>Authorized Margin per Customer</b>	<b>\$ 4,252.86</b>	<b>\$ 6,747.29</b>	<b>\$ 7,943.43</b>	<b>\$ 7,484.29</b>	<b>\$ 7,506.86</b>	<b>\$ 7,071.29</b>	<b>\$ 6,941.43</b>	<b>\$ 2,640.86</b>	<b>\$ 1,520.00</b>	<b>\$ 1,513.71</b>	<b>\$ 1,460.86</b>	<b>\$ 2,228.43</b>	<b>\$ 57,311.29</b>
Large IT Sales - Actual Customers	1	1	1	1	1	1	1	1	1	1	1	1	1
Large IT Transport - Actual Customers	6	6	6	6	6	6	6	6	6	6	6	6	6
Actual Sales - Dk	89,956	162,620	159,473	208,264	218,964	189,166	205,569	148,117	74,814	78,286	64,601	94,655	1,694,484
Actual Basic Service Charge Revenues	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 21,480
Actual Distribution Charge Revenues (excl CIP)	\$ 34,264	\$ 61,942	\$ 60,743	\$ 79,328	\$ 83,403	\$ 72,053	\$ 78,301	\$ 56,418	\$ 28,496	\$ 29,819	\$ 24,606	\$ 36,054	\$ 645,429
Actual Non-Gas Revenues	\$ 36,054	\$ 63,732	\$ 62,533	\$ 81,118	\$ 85,193	\$ 73,843	\$ 80,091	\$ 58,208	\$ 30,286	\$ 31,609	\$ 26,396	\$ 37,844	\$ 666,909
Designed Non-Gas Revenues 2/	\$ 29,770	\$ 47,231	\$ 55,604	\$ 52,390	\$ 52,548	\$ 49,499	\$ 48,590	\$ 18,486	\$ 10,640	\$ 10,596	\$ 10,226	\$ 15,599	\$ 401,179
<b>Under / (Over) Collection</b>	<b>\$ (6,284)</b>	<b>\$ (16,501)</b>	<b>\$ (6,929)</b>	<b>\$ (28,728)</b>	<b>\$ (32,645)</b>	<b>\$ (24,344)</b>	<b>\$ (31,501)</b>	<b>\$ (39,722)</b>	<b>\$ (19,646)</b>	<b>\$ (21,013)</b>	<b>\$ (16,170)</b>	<b>\$ (22,245)</b>	<b>\$ (265,730)</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 401,179
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 40,118

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Residential Rate - N60**

Residential Rate - N60	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Authorized Customers 1/	8,241	8,302	8,730	8,608	8,506	8,608	8,731	8,741	8,486	8,353	8,404	8,282	8,499
Authorized Sales - Dk 1/	24,125	64,056	91,300	139,619	131,717	97,054	71,682	36,603	13,865	7,279	6,101	9,844	693,245
Authorized Basic Service Charge 1/	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 90.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915	\$ 1.9915
Authorized Basic Service Charge Revenues	\$ 61,808	\$ 62,265	\$ 65,475	\$ 64,560	\$ 63,795	\$ 64,560	\$ 65,483	\$ 65,558	\$ 63,645	\$ 62,648	\$ 63,030	\$ 62,115	\$ 764,910
Authorized Distribution Charge Revenues (excl CIP)	\$ 48,045	\$ 127,568	\$ 181,824	\$ 278,051	\$ 262,314	\$ 193,283	\$ 142,755	\$ 72,895	\$ 27,612	\$ 14,496	\$ 12,150	\$ 19,604	\$ 1,380,597
Authorized Non-Gas Revenues	\$ 109,853	\$ 189,833	\$ 247,299	\$ 342,611	\$ 326,109	\$ 257,843	\$ 208,238	\$ 138,453	\$ 91,257	\$ 77,144	\$ 75,180	\$ 81,719	\$ 2,145,507
<b>Authorized Margin per Customer</b>	<b>\$ 13.33</b>	<b>\$ 22.87</b>	<b>\$ 28.33</b>	<b>\$ 39.80</b>	<b>\$ 38.34</b>	<b>\$ 29.95</b>	<b>\$ 23.85</b>	<b>\$ 15.84</b>	<b>\$ 10.75</b>	<b>\$ 9.24</b>	<b>\$ 8.95</b>	<b>\$ 9.87</b>	<b>\$ 252.44</b>
Actual Customers	8,280	8,327	8,392	8,471	8,361	8,651	8,399	8,436	8,539	8,573	8,525	8,476	8,453
Actual Sales - Dk	14,406	32,805	77,424	134,787	104,073	99,734	62,407	37,926	17,300	7,363	7,126	7,062	602,412
Actual Basic Service Charge Revenues	\$ 62,100	\$ 62,453	\$ 62,940	\$ 63,533	\$ 62,708	\$ 64,883	\$ 62,993	\$ 63,270	\$ 64,043	\$ 64,298	\$ 63,938	\$ 63,570	\$ 760,770
Actual Distribution Charge Revenues (excl CIP)	\$ 28,690	\$ 65,331	\$ 154,190	\$ 268,428	\$ 207,261	\$ 198,620	\$ 124,284	\$ 75,529	\$ 34,452	\$ 14,664	\$ 14,191	\$ 14,064	\$ 1,199,703
Actual Non-Gas Revenues	\$ 90,790	\$ 127,784	\$ 217,130	\$ 331,961	\$ 269,969	\$ 263,503	\$ 187,277	\$ 138,799	\$ 98,495	\$ 78,962	\$ 78,129	\$ 77,634	\$ 1,960,473
Designed Non-Gas Revenues 2/	\$ 110,372	\$ 190,438	\$ 247,299	\$ 342,611	\$ 326,109	\$ 259,097	\$ 208,238	\$ 138,453	\$ 91,794	\$ 79,215	\$ 76,299	\$ 83,658	\$ 2,145,507
Under / (Over) Collection	\$ 19,582	\$ 62,654	\$ 30,169	\$ 10,650	\$ 56,140	\$ (4,406)	\$ 20,961	\$ (346)	\$ (6,701)	\$ 253	\$ (1,830)	\$ 6,024	\$ 185,034

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 2,145,507
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 214,551

**Alternate Methods for Calculating Decoupling Adjustment**

**Alternate Option #1 - Total Revenues/Per-Customer-Class**

Revenues Allowed (total authorized)	\$ 109,853	\$ 189,833	\$ 247,299	\$ 342,611	\$ 326,109	\$ 257,843	\$ 208,238	\$ 138,453	\$ 91,257	\$ 77,144	\$ 75,180	\$ 81,719	\$ 2,145,507
Actual Revenues	\$ 90,790	\$ 127,784	\$ 217,130	\$ 331,961	\$ 269,969	\$ 263,503	\$ 187,277	\$ 138,799	\$ 98,495	\$ 78,962	\$ 78,129	\$ 77,634	\$ 1,960,473
Under (Over) Collection	\$ 19,063	\$ 62,049	\$ 30,169	\$ 10,650	\$ 56,140	\$ (5,660)	\$ 20,961	\$ (346)	\$ (7,238)	\$ (1,818)	\$ (2,949)	\$ 4,085	\$ 185,034

**Alternate Option #2 - Per Customer**

Revenues Allowed (authorized margin x actual cus. Ct)	\$ 110,372	\$ 190,438	\$ 237,745	\$ 337,146	\$ 320,561	\$ 259,097	\$ 200,316	\$ 133,626	\$ 91,794	\$ 79,215	\$ 76,299	\$ 83,658	\$ 2,133,875
Actual Revenues	\$ 90,790	\$ 127,784	\$ 217,130	\$ 331,961	\$ 269,969	\$ 263,503	\$ 187,277	\$ 138,799	\$ 98,495	\$ 78,962	\$ 78,129	\$ 77,634	\$ 1,960,473
Under (Over) Collection	\$ 19,582	\$ 62,654	\$ 20,615	\$ 5,185	\$ 50,592	\$ (4,406)	\$ 13,039	\$ (5,173)	\$ (6,701)	\$ 253	\$ (1,830)	\$ 6,024	\$ 173,402

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Residential Rate - S60**

Residential Rate - S60	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Authorized Customers 1/	10,073	10,023	10,706	10,346	10,358	10,346	10,519	10,470	10,730	10,321	10,159	9,998	10,337
Authorized Sales - Dk 1/	19,574	64,061	109,863	161,621	158,914	111,178	79,766	39,226	12,147	5,338	5,184	6,808	773,680
Authorized Basic Service Charge 1/	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50	\$ 90.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911	\$ 1.4911
Authorized Basic Service Charge Revenues	\$ 75,548	\$ 75,173	\$ 80,295	\$ 77,595	\$ 77,685	\$ 77,595	\$ 78,893	\$ 78,525	\$ 80,475	\$ 77,408	\$ 76,193	\$ 74,985	\$ 930,330
Authorized Distribution Charge Revenues (excl CIP)	\$ 29,187	\$ 95,521	\$ 163,817	\$ 240,993	\$ 236,957	\$ 165,778	\$ 118,939	\$ 58,490	\$ 18,112	\$ 7,959	\$ 7,730	\$ 10,151	\$ 1,153,634
Authorized Non-Gas Revenues	\$ 104,735	\$ 170,694	\$ 244,112	\$ 318,588	\$ 314,642	\$ 243,373	\$ 197,832	\$ 137,015	\$ 98,587	\$ 85,367	\$ 83,923	\$ 85,136	\$ 2,083,964
<b>Authorized Margin per Customer</b>	<b>\$ 10.40</b>	<b>\$ 17.03</b>	<b>\$ 22.80</b>	<b>\$ 30.79</b>	<b>\$ 30.38</b>	<b>\$ 23.52</b>	<b>\$ 18.81</b>	<b>\$ 13.09</b>	<b>\$ 9.19</b>	<b>\$ 8.27</b>	<b>\$ 8.26</b>	<b>\$ 8.52</b>	<b>\$ 201.60</b>
Actual Customers	10,215	10,258	10,218	10,246	10,228	10,418	10,218	10,356	10,461	10,359	10,177	10,250	10,284
Actual Sales - Dk	13,433	32,563	96,141	152,998	119,310	108,042	70,315	41,446	19,326	7,366	7,596	7,150	675,685
Actual Basic Service Charge Revenues	\$ 76,613	\$ 76,935	\$ 76,635	\$ 76,845	\$ 76,710	\$ 78,135	\$ 76,635	\$ 77,670	\$ 78,458	\$ 77,693	\$ 76,328	\$ 76,875	\$ 925,560
Actual Distribution Charge Revenues (excl CIP)	\$ 20,030	\$ 48,555	\$ 143,356	\$ 228,135	\$ 177,903	\$ 161,101	\$ 104,847	\$ 61,800	\$ 28,816	\$ 10,983	\$ 11,327	\$ 10,661	\$ 1,007,514
Actual Non-Gas Revenues	\$ 96,643	\$ 125,490	\$ 219,991	\$ 304,980	\$ 254,613	\$ 239,236	\$ 181,482	\$ 139,470	\$ 107,274	\$ 88,676	\$ 87,655	\$ 87,536	\$ 1,933,074
Designed Non-Gas Revenues 2/	\$ 106,236	\$ 174,694	\$ 244,112	\$ 318,588	\$ 314,642	\$ 245,031	\$ 197,832	\$ 137,015	\$ 98,587	\$ 85,669	\$ 84,062	\$ 87,330	\$ 2,083,964
<b>Under / (Over) Collection</b>	<b>\$ 9,593</b>	<b>\$ 49,204</b>	<b>\$ 24,121</b>	<b>\$ 13,608</b>	<b>\$ 60,029</b>	<b>\$ 5,795</b>	<b>\$ 16,350</b>	<b>\$ (2,455)</b>	<b>\$ (8,687)</b>	<b>\$ (3,007)</b>	<b>\$ (3,593)</b>	<b>\$ (206)</b>	<b>\$ 150,890</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 2,083,964
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 208,396

**Alternate Methods for Calculating Decoupling Adjustment**

**Alternate Option #1 - Total Revenues/Per-Customer-Class**

Revenues Allowed (total authorized)	\$ 104,735	\$ 170,694	\$ 244,112	\$ 318,588	\$ 314,642	\$ 243,373	\$ 197,832	\$ 137,015	\$ 98,587	\$ 85,367	\$ 83,923	\$ 85,136	\$ 2,083,964
Actual Revenues	\$ 96,643	\$ 125,490	\$ 219,991	\$ 304,980	\$ 254,613	\$ 239,236	\$ 181,482	\$ 139,470	\$ 107,274	\$ 88,676	\$ 87,655	\$ 87,536	\$ 1,933,074
Under (Over) Collection	\$ 8,092	\$ 45,204	\$ 24,121	\$ 13,608	\$ 60,029	\$ 4,137	\$ 16,350	\$ (2,455)	\$ (8,687)	\$ (3,309)	\$ (3,732)	\$ (2,400)	\$ 150,890

**Alternate Option #2 - Per Customer**

Revenues Allowed (authorized margin x actual cus. Ct)	\$ 106,236	\$ 174,694	\$ 232,970	\$ 315,474	\$ 310,727	\$ 245,031	\$ 192,201	\$ 135,560	\$ 96,137	\$ 85,669	\$ 84,062	\$ 87,330	\$ 2,073,254
Actual Revenues	\$ 96,643	\$ 125,490	\$ 219,991	\$ 304,980	\$ 254,613	\$ 239,236	\$ 181,482	\$ 139,470	\$ 107,274	\$ 88,676	\$ 87,655	\$ 87,536	\$ 1,933,074
Under (Over) Collection	\$ 9,593	\$ 49,204	\$ 12,979	\$ 10,494	\$ 56,114	\$ 5,795	\$ 10,719	\$ (3,910)	\$ (11,137)	\$ (3,007)	\$ (3,593)	\$ (206)	\$ 140,180

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Firm General - N70**

Firm General - N70	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small Firm - Authorized Customers 1/	797	732	865	840	815	821	824	811	807	793	792	789	808
Large Firm - Authorized Customers 1/	459	458	489	469	462	452	451	457	454	467	482	463	463
Authorized Sales - Dk 1/	22,218	47,460	68,731	99,234	92,608	68,601	51,321	29,316	14,790	10,985	10,482	12,427	528,173
Small Firm Authorized Basic Service Charge 1/	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 276.00
Large Firm Authorized Basic Service Charge 1/	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 342.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806	\$ 1.5806
Authorized Basic Service Charge Revenues	\$ 31,413	\$ 29,889	\$ 33,832	\$ 32,687	\$ 31,912	\$ 31,765	\$ 31,806	\$ 31,678	\$ 31,500	\$ 31,549	\$ 31,953	\$ 31,343	\$ 381,354
Authorized Distribution Charge Revenues (excl CIP)	\$ 35,118	\$ 75,015	\$ 108,636	\$ 156,849	\$ 146,376	\$ 108,431	\$ 81,118	\$ 46,337	\$ 23,377	\$ 17,363	\$ 16,568	\$ 19,642	\$ 834,830
Authorized Non-Gas Revenues	\$ 66,531	\$ 104,904	\$ 142,468	\$ 189,536	\$ 178,288	\$ 140,196	\$ 112,924	\$ 78,015	\$ 54,877	\$ 48,912	\$ 48,521	\$ 50,985	\$ 1,216,184
<b>Authorized Margin per Customer</b>	<b>\$ 52.97</b>	<b>\$ 88.15</b>	<b>\$ 105.22</b>	<b>\$ 144.79</b>	<b>\$ 139.61</b>	<b>\$ 110.13</b>	<b>\$ 88.57</b>	<b>\$ 61.53</b>	<b>\$ 43.52</b>	<b>\$ 38.82</b>	<b>\$ 38.09</b>	<b>\$ 40.72</b>	<b>\$ 956.87</b>
Small Firm - Actual Customers	803	816	807	822	821	851	868	816	805	791	819	807	819
Large Firm - Actual Customers	440	436	442	450	486	443	525	439	440	431	438	444	451
Actual Sales - Dk	15,751	24,371	60,127	90,560	68,754	67,819	41,057	28,572	16,335	11,178	11,476	11,124	447,124
Actual Basic Service Charge Revenues	\$ 31,009	\$ 31,194	\$ 31,158	\$ 31,731	\$ 32,734	\$ 32,199	\$ 34,927	\$ 31,280	\$ 31,055	\$ 30,477	\$ 31,320	\$ 31,215	\$ 380,286
Actual Distribution Charge Revenues (excl CIP)	\$ 24,896	\$ 38,521	\$ 95,037	\$ 143,139	\$ 108,673	\$ 107,195	\$ 64,895	\$ 45,161	\$ 25,819	\$ 17,667	\$ 18,138	\$ 17,583	\$ 706,724
Actual Non-Gas Revenues	\$ 55,905	\$ 69,715	\$ 126,195	\$ 174,870	\$ 141,407	\$ 139,394	\$ 99,822	\$ 76,441	\$ 56,874	\$ 48,144	\$ 49,458	\$ 48,798	\$ 1,087,010
Designed Non-Gas Revenues 2/	\$ 66,531	\$ 110,364	\$ 142,468	\$ 189,536	\$ 182,470	\$ 142,508	\$ 123,378	\$ 78,015	\$ 54,877	\$ 48,912	\$ 48,521	\$ 50,985	\$ 1,216,184
Under / (Over) Collection	\$ 10,626	\$ 40,649	\$ 16,273	\$ 14,666	\$ 41,063	\$ 3,114	\$ 23,556	\$ 1,574	\$ (1,997)	\$ 768	\$ (937)	\$ 2,187	\$ 129,174

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 1,216,184
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 121,618

**Alternate Methods for Calculating Decoupling Adjustment**

Alternate Option #1 - Total Revenues/Per-Customer-Class													
Revenues Allowed (total authorized)	\$ 66,531	\$ 104,904	\$ 142,468	\$ 189,536	\$ 178,288	\$ 140,196	\$ 112,924	\$ 78,015	\$ 54,877	\$ 48,912	\$ 48,521	\$ 50,985	\$ 1,216,184
Actual Revenues	\$ 55,905	\$ 69,715	\$ 126,195	\$ 174,870	\$ 141,407	\$ 139,394	\$ 99,822	\$ 76,441	\$ 56,874	\$ 48,144	\$ 49,458	\$ 48,798	\$ 1,087,010
Under (Over) Collection	\$ 10,626	\$ 35,189	\$ 16,273	\$ 14,666	\$ 36,881	\$ 802	\$ 13,102	\$ 1,574	\$ (1,997)	\$ 768	\$ (937)	\$ 2,187	\$ 129,174
Alternate Option #2 - Per Customer													
Revenues Allowed (authorized margin x actual cus. Ct)	\$ 65,842	\$ 110,364	\$ 131,420	\$ 184,173	\$ 182,470	\$ 142,508	\$ 123,378	\$ 77,220	\$ 54,182	\$ 47,438	\$ 47,879	\$ 50,941	\$ 1,215,225
Actual Revenues	\$ 55,905	\$ 69,715	\$ 126,195	\$ 174,870	\$ 141,407	\$ 139,394	\$ 99,822	\$ 76,441	\$ 56,874	\$ 48,144	\$ 49,458	\$ 48,798	\$ 1,087,010
Under (Over) Collection	\$ 9,937	\$ 40,649	\$ 5,225	\$ 9,303	\$ 41,063	\$ 3,114	\$ 23,556	\$ 779	\$ (2,692)	\$ (706)	\$ (1,579)	\$ 2,143	\$ 128,215

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Firm General - S70**

Firm General - S70	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small Firm - Authorized Customers 1/	1,082	1,050	1,164	1,147	1,172	1,112	1,132	1,159	1,137	1,098	1,096	1,064	1,118
Large Firm - Authorized Customers 1/	634	602	624	614	634	589	614	584	611	609	618	631	614
Authorized Sales - Dk 1/	29,176	63,766	101,213	145,318	145,907	99,858	76,145	42,494	21,261	16,362	16,491	17,956	775,947
Small Firm Authorized Basic Service Charge 1/	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 23.00	\$ 276.00
Large Firm Authorized Basic Service Charge 1	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 28.50	\$ 342.00
Authorized Distribution Charge excluding CIP 1/	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026	\$ 1,2026
Authorized Basic Service Charge Revenues	\$ 42,955	\$ 41,307	\$ 44,556	\$ 43,880	\$ 45,025	\$ 42,363	\$ 43,535	\$ 43,301	\$ 43,565	\$ 42,611	\$ 42,821	\$ 42,456	\$ 518,556
Authorized Distribution Charge Revenues (excl CIP)	\$ 35,087	\$ 76,685	\$ 121,719	\$ 174,759	\$ 175,468	\$ 120,089	\$ 91,572	\$ 51,103	\$ 25,568	\$ 19,677	\$ 19,832	\$ 21,594	\$ 933,154
Authorized Non-Gas Revenues	\$ 78,042	\$ 117,992	\$ 166,275	\$ 218,639	\$ 220,493	\$ 162,452	\$ 135,107	\$ 94,404	\$ 69,133	\$ 62,288	\$ 62,653	\$ 64,050	\$ 1,451,710
<b>Authorized Margin per Customer</b>	<b>\$ 45.48</b>	<b>\$ 71.42</b>	<b>\$ 92.99</b>	<b>\$ 124.16</b>	<b>\$ 122.09</b>	<b>\$ 95.50</b>	<b>\$ 77.38</b>	<b>\$ 54.16</b>	<b>\$ 39.55</b>	<b>\$ 36.49</b>	<b>\$ 36.55</b>	<b>\$ 37.79</b>	<b>\$ 838.17</b>
Small Firm - Actual Customers	1,116	1,114	1,114	1,125	1,124	1,151	1,166	1,129	1,139	1,097	1,116	1,092	1,124
Large Firm - Actual Customers	579	588	627	595	592	605	661	691	645	607	597	600	616
Actual Sales - Dk	18,986	29,928	78,893	130,624	105,379	94,166	62,724	39,726	24,919	15,416	16,869	15,577	633,206
Actual Basic Service Charge Revenues	\$ 42,170	\$ 42,380	\$ 43,492	\$ 42,833	\$ 42,724	\$ 43,716	\$ 45,657	\$ 45,661	\$ 44,580	\$ 42,531	\$ 42,683	\$ 42,216	\$ 520,896
Actual Distribution Charge Revenues (excl CIP)	\$ 22,833	\$ 35,991	\$ 94,877	\$ 157,089	\$ 126,728	\$ 113,244	\$ 75,432	\$ 47,775	\$ 29,967	\$ 18,539	\$ 20,287	\$ 18,733	\$ 761,494
Actual Non-Gas Revenues	\$ 65,003	\$ 78,371	\$ 138,369	\$ 199,922	\$ 169,452	\$ 156,960	\$ 121,089	\$ 93,436	\$ 74,547	\$ 61,070	\$ 62,970	\$ 60,949	\$ 1,282,390
Designed Non-Gas Revenues 2/	\$ 78,042	\$ 121,557	\$ 166,275	\$ 218,639	\$ 220,493	\$ 167,698	\$ 141,373	\$ 98,571	\$ 70,557	\$ 62,288	\$ 62,653	\$ 64,050	\$ 1,458,416
Under / (Over) Collection	\$ 13,039	\$ 43,186	\$ 27,906	\$ 18,717	\$ 51,041	\$ 10,738	\$ 20,284	\$ 5,135	\$ (3,990)	\$ 1,218	\$ (317)	\$ 3,101	\$ 176,026

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 1,458,416
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 145,842

**Alternate Methods for Calculating Decoupling Adjustment**

Alternate Option #1 - Total Revenues/Per-Customer-Class													
Revenues Allowed (total authorized)	\$ 78,042	\$ 117,992	\$ 166,275	\$ 218,639	\$ 220,493	\$ 162,452	\$ 135,107	\$ 94,404	\$ 69,133	\$ 62,288	\$ 62,653	\$ 64,050	\$ 1,451,710
Actual Revenues	\$ 65,003	\$ 78,371	\$ 138,369	\$ 199,922	\$ 169,452	\$ 156,960	\$ 121,089	\$ 93,436	\$ 74,547	\$ 61,070	\$ 62,970	\$ 60,949	\$ 1,282,390
Under (Over) Collection	\$ 13,039	\$ 39,621	\$ 27,906	\$ 18,717	\$ 51,041	\$ 5,492	\$ 14,018	\$ 968	\$ (5,414)	\$ 1,218	\$ (317)	\$ 3,101	\$ 169,320
Alternate Option #2 - Per Customer													
Revenues Allowed (authorized margin x actual cus. Ct)	\$ 77,089	\$ 121,557	\$ 161,896	\$ 213,555	\$ 209,506	\$ 167,698	\$ 141,373	\$ 98,571	\$ 70,557	\$ 62,179	\$ 62,610	\$ 63,941	\$ 1,458,416
Actual Revenues	\$ 65,003	\$ 78,371	\$ 138,369	\$ 199,922	\$ 169,452	\$ 156,960	\$ 121,089	\$ 93,436	\$ 74,547	\$ 61,070	\$ 62,970	\$ 60,949	\$ 1,282,390
Under (Over) Collection	\$ 12,086	\$ 43,186	\$ 23,527	\$ 13,633	\$ 40,054	\$ 10,738	\$ 20,284	\$ 5,135	\$ (3,990)	\$ 1,109	\$ (360)	\$ 2,992	\$ 176,026

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Small Interruptible - North (N71 & N81)**

Small Interruptible - North (N71 & N81)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small IT Sales - Authorized Customers 1/	70	70	70	70	70	70	70	70	70	70	70	70	70
Small IT Transport - Authorized Customers 1/	2	2	2	2	2	2	2	2	2	2	2	2	2
Authorized Sales - Dk 1/	56,724	31,403	45,047	54,777	36,890	41,583	32,240	21,050	16,317	11,626	12,441	16,554	376,652
Small IT Sales Authorized Basic Service Charge 1/	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 1,740.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 2,400.00
Authorized Distribution Charge excluding CIP 1/	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738	\$ 1,1738
Authorized Basic Service Charge Revenues	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 10,550	\$ 126,600
Authorized Distribution Charge Revenues (excl CIP)	\$ 66,583	\$ 36,861	\$ 52,876	\$ 64,297	\$ 43,301	\$ 48,810	\$ 37,843	\$ 24,708	\$ 19,153	\$ 13,647	\$ 14,603	\$ 19,431	\$ 442,114
Authorized Non-Gas Revenues	\$ 77,133	\$ 47,411	\$ 63,426	\$ 74,847	\$ 53,851	\$ 59,360	\$ 48,393	\$ 35,258	\$ 29,703	\$ 24,197	\$ 25,153	\$ 29,981	\$ 568,714
<b>Authorized Margin per Customer</b>	<b>\$ 1,071.29</b>	<b>\$ 658.49</b>	<b>\$ 880.92</b>	<b>\$ 1,039.54</b>	<b>\$ 747.93</b>	<b>\$ 824.44</b>	<b>\$ 672.13</b>	<b>\$ 489.69</b>	<b>\$ 412.54</b>	<b>\$ 336.07</b>	<b>\$ 349.35</b>	<b>\$ 416.40</b>	<b>\$ 7,898.81</b>
Small IT Sales - Actual Customers	63	62	63	63	63	62	62	62	63	64	62	63	63
Small IT Transport - Actual Customers	4	4	4	4	4	4	4	4	4	4	4	4	4
Actual Sales - Dk	18,814	61,681	42,700	51,698	42,773	38,528	30,703	20,771	13,549	9,205	8,186	11,744	350,351
Actual Basic Service Charge Revenues	\$ 9,935	\$ 9,790	\$ 9,935	\$ 9,935	\$ 9,935	\$ 9,790	\$ 9,790	\$ 9,790	\$ 9,935	\$ 10,080	\$ 9,790	\$ 9,935	\$ 119,220
Actual Distribution Charge Revenues (excl CIP)	\$ 22,084	\$ 72,401	\$ 50,121	\$ 60,683	\$ 50,206	\$ 45,224	\$ 36,039	\$ 24,381	\$ 15,904	\$ 10,805	\$ 9,608	\$ 13,785	\$ 411,242
Actual Non-Gas Revenues	\$ 32,019	\$ 82,191	\$ 60,056	\$ 70,618	\$ 60,141	\$ 55,014	\$ 45,829	\$ 34,171	\$ 25,839	\$ 20,885	\$ 19,398	\$ 23,720	\$ 530,462
Designed Non-Gas Revenues 2/	\$ 77,133	\$ 47,411	\$ 63,426	\$ 74,847	\$ 53,851	\$ 59,360	\$ 48,393	\$ 35,258	\$ 29,703	\$ 24,197	\$ 25,153	\$ 29,981	\$ 568,714
<b>Under / (Over) Collection</b>	<b>\$ 45,114</b>	<b>\$ (34,780)</b>	<b>\$ 3,370</b>	<b>\$ 4,229</b>	<b>\$ (6,290)</b>	<b>\$ 4,346</b>	<b>\$ 2,564</b>	<b>\$ 1,087</b>	<b>\$ 3,864</b>	<b>\$ 3,312</b>	<b>\$ 5,755</b>	<b>\$ 6,261</b>	<b>\$ 38,252</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 568,714
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 56,871

**Alternate Methods for Calculating Decoupling Adjustment**

**Alternate Option #1 - Total Revenues/Per-Customer-Class**

Revenues Allowed (total authorized)	\$ 77,133	\$ 47,411	\$ 63,426	\$ 74,847	\$ 53,851	\$ 59,360	\$ 48,393	\$ 35,258	\$ 29,703	\$ 24,197	\$ 25,153	\$ 29,981	\$ 568,714
Actual Revenues	\$ 32,019	\$ 82,191	\$ 60,056	\$ 70,618	\$ 60,141	\$ 55,014	\$ 45,829	\$ 34,171	\$ 25,839	\$ 20,885	\$ 19,398	\$ 23,720	\$ 530,462
Under (Over) Collection	\$ 45,114	\$ (34,780)	\$ 3,370	\$ 4,229	\$ (6,290)	\$ 4,346	\$ 2,564	\$ 1,087	\$ 3,864	\$ 3,312	\$ 5,755	\$ 6,261	\$ 38,252

**Alternate Option #2 - Per Customer**

Revenues Allowed (authorized margin x actual cus. Ct)	\$ 71,776	\$ 43,460	\$ 59,022	\$ 69,649	\$ 50,111	\$ 54,413	\$ 44,361	\$ 32,320	\$ 27,640	\$ 22,853	\$ 23,057	\$ 27,899	\$ 529,220
Actual Revenues	\$ 32,019	\$ 82,191	\$ 60,056	\$ 70,618	\$ 60,141	\$ 55,014	\$ 45,829	\$ 34,171	\$ 25,839	\$ 20,885	\$ 19,398	\$ 23,720	\$ 530,462
Under (Over) Collection	\$ 39,757	\$ (38,731)	\$ (1,034)	\$ (969)	\$ (10,030)	\$ (601)	\$ (1,468)	\$ (1,851)	\$ 1,801	\$ 1,968	\$ 3,659	\$ 4,179	\$ (1,242)

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Small Interruptible - South (S71 & S81)**

Small Interruptible - South (S71 & S81)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Small IT Sales - Authorized Customers 1/	69	69	69	69	69	69	69	69	69	69	69	69	69
Small IT Transport - Authorized Customers 1/	3	3	3	3	3	3	3	3	3	3	3	3	3
Authorized Sales - Dk 1/	63,803	33,809	28,842	38,881	41,275	28,884	31,413	25,875	29,782	20,876	19,152	17,610	380,202
Small IT Sales Authorized Basic Service Charge 1/	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 145.00	\$ 1,740.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 2,400.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395	\$ 1.1395
Authorized Basic Service Charge Revenues	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 10,605	\$ 127,260
Authorized Distribution Charge Revenues (excl CIP)	\$ 72,704	\$ 38,525	\$ 32,865	\$ 44,305	\$ 47,033	\$ 32,913	\$ 35,795	\$ 29,485	\$ 33,937	\$ 23,788	\$ 21,824	\$ 20,067	\$ 433,240
Authorized Non-Gas Revenues	\$ 83,309	\$ 49,130	\$ 43,470	\$ 54,910	\$ 57,638	\$ 43,518	\$ 46,400	\$ 40,090	\$ 44,542	\$ 34,393	\$ 32,429	\$ 30,672	\$ 560,500
<b>Authorized Margin per Customer</b>	<b>\$ 1,157.07</b>	<b>\$ 682.36</b>	<b>\$ 603.75</b>	<b>\$ 762.64</b>	<b>\$ 800.53</b>	<b>\$ 604.42</b>	<b>\$ 644.44</b>	<b>\$ 556.81</b>	<b>\$ 618.64</b>	<b>\$ 477.68</b>	<b>\$ 450.40</b>	<b>\$ 426.00</b>	<b>\$ 7,784.72</b>
Small IT Sales - Actual Customers	63	62	63	63	63	62	62	62	63	64	62	63	63
Small IT Transport - Actual Customers	4	4	4	4	4	4	4	4	4	4	4	4	4
Actual Sales - Dk	16,606	67,847	36,796	43,106	37,620	34,031	24,384	27,381	26,423	18,017	20,490	21,704	374,403
Actual Basic Service Charge Revenues	\$ 9,935	\$ 9,790	\$ 9,935	\$ 9,935	\$ 9,935	\$ 9,790	\$ 9,790	\$ 9,790	\$ 9,935	\$ 10,080	\$ 9,790	\$ 9,935	\$ 119,220
Actual Distribution Charge Revenues (excl CIP)	\$ 18,923	\$ 77,312	\$ 41,929	\$ 49,119	\$ 42,868	\$ 38,778	\$ 27,785	\$ 31,200	\$ 30,108	\$ 20,530	\$ 23,348	\$ 24,732	\$ 426,632
Actual Non-Gas Revenues	\$ 28,858	\$ 87,102	\$ 51,864	\$ 59,054	\$ 52,803	\$ 48,568	\$ 37,575	\$ 40,990	\$ 40,043	\$ 30,610	\$ 33,138	\$ 34,667	\$ 545,852
Designed Non-Gas Revenues 2/	\$ 83,309	\$ 49,130	\$ 43,470	\$ 54,910	\$ 57,638	\$ 43,518	\$ 46,400	\$ 40,090	\$ 44,542	\$ 34,393	\$ 32,429	\$ 30,672	\$ 560,500
<b>Under / (Over) Collection</b>	<b>\$ 54,451</b>	<b>\$ (37,972)</b>	<b>\$ (8,394)</b>	<b>\$ (4,144)</b>	<b>\$ 4,835</b>	<b>\$ (5,050)</b>	<b>\$ 8,825</b>	<b>\$ (900)</b>	<b>\$ 4,499</b>	<b>\$ 3,783</b>	<b>\$ (709)</b>	<b>\$ (3,995)</b>	<b>\$ 14,648</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 560,500
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 56,050

**Alternate Methods for Calculating Decoupling Adjustment**

**Alternate Option #1 - Total Revenues/Per-Customer-Class**

Revenues Allowed (total authorized)	\$ 83,309	\$ 49,130	\$ 43,470	\$ 54,910	\$ 57,638	\$ 43,518	\$ 46,400	\$ 40,090	\$ 44,542	\$ 34,393	\$ 32,429	\$ 30,672	\$ 560,500
Actual Revenues	\$ 28,858	\$ 87,102	\$ 51,864	\$ 59,054	\$ 52,803	\$ 48,568	\$ 37,575	\$ 40,990	\$ 40,043	\$ 30,610	\$ 33,138	\$ 34,667	\$ 545,852
Under (Over) Collection	\$ 54,451	\$ (37,972)	\$ (8,394)	\$ (4,144)	\$ 4,835	\$ (5,050)	\$ 8,825	\$ (900)	\$ 4,499	\$ 3,783	\$ (709)	\$ (3,995)	\$ 14,648

**Alternate Option #2 - Per Customer**

Revenues Allowed (authorized margin x actual cus. Ct)	\$ 77,524	\$ 45,036	\$ 40,451	\$ 51,097	\$ 53,636	\$ 39,892	\$ 42,533	\$ 36,749	\$ 41,449	\$ 32,482	\$ 29,726	\$ 28,542	\$ 521,576
Actual Revenues	\$ 28,858	\$ 87,102	\$ 51,864	\$ 59,054	\$ 52,803	\$ 48,568	\$ 37,575	\$ 40,990	\$ 40,043	\$ 30,610	\$ 33,138	\$ 34,667	\$ 545,852
Under (Over) Collection	\$ 48,666	\$ (42,066)	\$ (11,413)	\$ (7,957)	\$ 833	\$ (8,676)	\$ 4,958	\$ (4,241)	\$ 1,406	\$ 1,872	\$ (3,412)	\$ (6,125)	\$ (24,276)

**GREAT PLAINS NATURAL GAS CO.**  
**GAS UTILITY - MINNESOTA**  
**RDM Adjustment Calculation - Large Interruptible - North (N85 & N82)**

Large Interruptible - North (N85 & N82)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Large IT Sales - Authorized Customers 1/	5	5	5	5	5	5	5	5	5	5	5	5	5
Large IT Transport - Authorized Customers 1/	1	1	1	1	1	1	1	1	1	1	1	1	1
Authorized Sales - Dk 1/	29,389	29,366	29,225	31,625	32,930	34,495	37,282	25,766	29,850	29,297	22,663	25,500	357,388
Large IT Sales Authorized Basic Service Charge 1/	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 2,760.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 3,120.00
Authorized Distribution Charge excluding CIP 1/	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637	\$ 1.1637
Authorized Basic Service Charge Revenues	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 1,410	\$ 16,920
Authorized Distribution Charge Revenues (excl CIP)	\$ 34,200	\$ 34,173	\$ 34,009	\$ 36,802	\$ 38,321	\$ 40,142	\$ 43,385	\$ 29,984	\$ 34,736	\$ 34,093	\$ 26,373	\$ 29,674	\$ 415,892
Authorized Non-Gas Revenues	\$ 35,610	\$ 35,583	\$ 35,419	\$ 38,212	\$ 39,731	\$ 41,552	\$ 44,795	\$ 31,394	\$ 36,146	\$ 35,503	\$ 27,783	\$ 31,084	\$ 432,812
<b>Authorized Margin per Customer</b>	<b>\$ 5,935.00</b>	<b>\$ 5,930.50</b>	<b>\$ 5,903.17</b>	<b>\$ 6,368.67</b>	<b>\$ 6,621.83</b>	<b>\$ 6,925.33</b>	<b>\$ 7,465.83</b>	<b>\$ 5,232.33</b>	<b>\$ 6,024.33</b>	<b>\$ 5,917.17</b>	<b>\$ 4,630.50</b>	<b>\$ 5,180.67</b>	<b>\$ 72,135.33</b>
Large IT Sales - Actual Customers	4	4	4	4	4	4	4	4	4	4	4	4	4
Large IT Transport - Actual Customers	1	1	1	1	1	1	1	1	1	1	1	1	1
Actual Sales - Dk	26,262	27,365	27,715	29,578	27,644	31,885	30,221	28,162	27,851	23,792	22,936	23,909	327,319
Actual Basic Service Charge Revenues	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 1,180	\$ 14,160
Actual Distribution Charge Revenues (excl CIP)	\$ 30,561	\$ 31,845	\$ 32,252	\$ 34,420	\$ 32,169	\$ 37,105	\$ 35,168	\$ 32,772	\$ 32,410	\$ 27,687	\$ 26,691	\$ 27,822	\$ 380,901
Actual Non-Gas Revenues	\$ 31,741	\$ 33,025	\$ 33,432	\$ 35,600	\$ 33,349	\$ 38,285	\$ 36,348	\$ 33,952	\$ 33,590	\$ 28,867	\$ 27,871	\$ 29,002	\$ 395,061
Designed Non-Gas Revenues 2/	\$ 35,610	\$ 35,583	\$ 35,419	\$ 38,212	\$ 39,731	\$ 41,552	\$ 44,795	\$ 31,394	\$ 36,146	\$ 35,503	\$ 27,783	\$ 31,084	\$ 432,812
<b>Under / (Over) Collection</b>	<b>\$ 3,869</b>	<b>\$ 2,558</b>	<b>\$ 1,987</b>	<b>\$ 2,612</b>	<b>\$ 6,382</b>	<b>\$ 3,267</b>	<b>\$ 8,447</b>	<b>\$ (2,558)</b>	<b>\$ 2,556</b>	<b>\$ 6,636</b>	<b>\$ (88)</b>	<b>\$ 2,082</b>	<b>\$ 37,751</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 432,812
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 43,281

**Alternate Methods for Calculating Decoupling Adjustment**

Alternate Option #1 - Total Revenues/Per-Customer-Class													
Revenues Allowed (total authorized)	\$ 35,610	\$ 35,583	\$ 35,419	\$ 38,212	\$ 39,731	\$ 41,552	\$ 44,795	\$ 31,394	\$ 36,146	\$ 35,503	\$ 27,783	\$ 31,084	\$ 432,812
Actual Revenues	\$ 31,741	\$ 33,025	\$ 33,432	\$ 35,600	\$ 33,349	\$ 38,285	\$ 36,348	\$ 33,952	\$ 33,590	\$ 28,867	\$ 27,871	\$ 29,002	\$ 395,061
Under (Over) Collection	\$ 3,869	\$ 2,558	\$ 1,987	\$ 2,612	\$ 6,382	\$ 3,267	\$ 8,447	\$ (2,558)	\$ 2,556	\$ 6,636	\$ (88)	\$ 2,082	\$ 37,751
Alternate Option #2 - Per Customer													
Revenues Allowed (authorized margin x actual cus. Ct)	\$ 29,675	\$ 29,653	\$ 29,516	\$ 31,843	\$ 33,109	\$ 34,627	\$ 37,329	\$ 26,162	\$ 30,122	\$ 29,586	\$ 23,153	\$ 25,903	\$ 360,677
Actual Revenues	\$ 31,741	\$ 33,025	\$ 33,432	\$ 35,600	\$ 33,349	\$ 38,285	\$ 36,348	\$ 33,952	\$ 33,590	\$ 28,867	\$ 27,871	\$ 29,002	\$ 395,061
Under (Over) Collection	\$ (2,066)	\$ (3,373)	\$ (3,916)	\$ (3,757)	\$ (240)	\$ (3,658)	\$ 981	\$ (7,790)	\$ (3,468)	\$ 719	\$ (4,719)	\$ (3,099)	\$ (34,384)

**GREAT PLAINS NATURAL GAS CO.  
GAS UTILITY - MINNESOTA  
RDM Adjustment Calculation - Large Interruptible - South (S85 & S82)**

Large Interruptible - South (S85 & S82)	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Annual Decoupling Calc
Large IT Sales - Authorized Customers 1/	1	1	1	1	1	1	1	1	1	1	1	1	1
Large IT Transport - Authorized Customers 1/	6	6	6	6	6	6	6	6	6	6	6	6	6
Authorized Sales - Dk 1/	73,457	119,300	141,280	132,844	133,258	125,253	122,867	43,833	23,234	23,119	22,148	36,254	996,847
Large IT Sales Authorized Basic Service Charge 1/	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 230.00	\$ 2,760.00
Large IT Transport Authorized Basic Service Charge 1/	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 260.00	\$ 3,120.00
Authorized Distribution Charge excluding CIP 1/	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809	\$ 0.3809
Authorized Basic Service Charge Revenues	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 21,480
Authorized Distribution Charge Revenues (excl CIP)	\$ 27,980	\$ 45,441	\$ 53,814	\$ 50,600	\$ 50,758	\$ 47,709	\$ 46,800	\$ 16,696	\$ 8,850	\$ 8,806	\$ 8,436	\$ 13,809	\$ 379,699
Authorized Non-Gas Revenues	\$ 29,770	\$ 47,231	\$ 55,604	\$ 52,390	\$ 52,548	\$ 49,499	\$ 48,590	\$ 18,486	\$ 10,640	\$ 10,596	\$ 10,226	\$ 15,599	\$ 401,179
<b>Authorized Margin per Customer</b>	<b>\$ 4,252.86</b>	<b>\$ 6,747.29</b>	<b>\$ 7,943.43</b>	<b>\$ 7,484.29</b>	<b>\$ 7,506.86</b>	<b>\$ 7,071.29</b>	<b>\$ 6,941.43</b>	<b>\$ 2,640.86</b>	<b>\$ 1,520.00</b>	<b>\$ 1,513.71</b>	<b>\$ 1,460.86</b>	<b>\$ 2,228.43</b>	<b>\$ 57,311.29</b>
Large IT Sales - Actual Customers	1	1	1	1	1	1	1	1	1	1	1	1	1
Large IT Transport - Actual Customers	6	6	6	6	6	6	6	6	6	6	6	6	6
Actual Sales - Dk	89,956	162,620	159,473	208,264	218,964	189,166	205,569	148,117	74,814	78,286	64,601	94,655	1,694,484
Actual Basic Service Charge Revenues	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 1,790	\$ 21,480
Actual Distribution Charge Revenues (excl CIP)	\$ 34,264	\$ 61,942	\$ 60,743	\$ 79,328	\$ 83,403	\$ 72,053	\$ 78,301	\$ 56,418	\$ 28,496	\$ 29,819	\$ 24,606	\$ 36,054	\$ 645,429
Actual Non-Gas Revenues	\$ 36,054	\$ 63,732	\$ 62,533	\$ 81,118	\$ 85,193	\$ 73,843	\$ 80,091	\$ 58,208	\$ 30,286	\$ 31,609	\$ 26,396	\$ 37,844	\$ 666,909
Designed Non-Gas Revenues 2/	\$ 29,770	\$ 47,231	\$ 55,604	\$ 52,390	\$ 52,548	\$ 49,499	\$ 48,590	\$ 18,486	\$ 10,640	\$ 10,596	\$ 10,226	\$ 15,599	\$ 401,179
<b>Under / (Over) Collection</b>	<b>\$ (6,284)</b>	<b>\$ (16,501)</b>	<b>\$ (6,929)</b>	<b>\$ (28,728)</b>	<b>\$ (32,645)</b>	<b>\$ (24,344)</b>	<b>\$ (31,501)</b>	<b>\$ (39,722)</b>	<b>\$ (19,646)</b>	<b>\$ (21,013)</b>	<b>\$ (16,170)</b>	<b>\$ (22,245)</b>	<b>\$ (265,730)</b>

1/ As authorized in Docket No. G004/GR-15-879.

2/ Designed Non-Gas Revenues serves as the basis for calculating the 10% RDM adjustment cap.

Designed Non-Gas Revenues	\$ 401,179
RDM Adjustment Cap (10% of Designed non-gas revenue)	10%
Capped amount for surcharge (no cap on refunds)	\$ 40,118

**Alternate Methods for Calculating Decoupling Adjustment**

**Alternate Option #1 - Total Revenues/Per-Customer-Class**

Revenues Allowed (total authorized)	\$ 29,770	\$ 47,231	\$ 55,604	\$ 52,390	\$ 52,548	\$ 49,499	\$ 48,590	\$ 18,486	\$ 10,640	\$ 10,596	\$ 10,226	\$ 15,599	\$ 401,179
Actual Revenues	\$ 36,054	\$ 63,732	\$ 62,533	\$ 81,118	\$ 85,193	\$ 73,843	\$ 80,091	\$ 58,208	\$ 30,286	\$ 31,609	\$ 26,396	\$ 37,844	\$ 666,909
Under (Over) Collection	\$ (6,284)	\$ (16,501)	\$ (6,929)	\$ (28,728)	\$ (32,645)	\$ (24,344)	\$ (31,501)	\$ (39,722)	\$ (19,646)	\$ (21,013)	\$ (16,170)	\$ (22,245)	\$ (265,730)

**Alternate Option #2 - Per Customer**

Revenues Allowed (authorized margin x actual cus. Ct)	\$ 29,770	\$ 47,231	\$ 55,604	\$ 52,390	\$ 52,548	\$ 49,499	\$ 48,590	\$ 18,486	\$ 10,640	\$ 10,596	\$ 10,226	\$ 15,599	\$ 401,179
Actual Revenues	\$ 36,054	\$ 63,732	\$ 62,533	\$ 81,118	\$ 85,193	\$ 73,843	\$ 80,091	\$ 58,208	\$ 30,286	\$ 31,609	\$ 26,396	\$ 37,844	\$ 666,909
Under (Over) Collection	\$ (6,284)	\$ (16,501)	\$ (6,929)	\$ (28,728)	\$ (32,645)	\$ (24,344)	\$ (31,501)	\$ (39,722)	\$ (19,646)	\$ (21,013)	\$ (16,170)	\$ (22,245)	\$ (265,730)