



414 Nicollet Mall
Minneapolis, Minnesota 55401

February 14, 2020

—Via Electronic Filing—

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: PETITION
EXTENSION OF GAS MONTHLY DEMAND TRUE-UP VARIANCE
DOCKET NO. G002/M-20-____

Dear Mr. Seuffert:

Northern States Power Company, a Minnesota corporation, doing business as Xcel Energy submits to the Minnesota Public Utilities Commission a Petition for approval of a variance extension to the Purchased Gas Adjustment (PGA) Rules, Minn. R. 7825.2700, subp. 5, related to the recovery of demand costs. The Commission last approved the variance for three years in its Order dated April 21, 2017, in Docket No. G002/M-17-101. The variance allows the Company to collect or return under- and over-recoveries of demand costs on a monthly basis instead of solely on an annual basis.

We have electronically filed this document with the Commission. A Summary of the filing has been served on all parties on the attached service list. Please contact me at lisa.r.peterson@xcelenergy.com or 612-330-7681 or Jennifer Roesler at jennifer.roesler@xcelenergy or 612-330-1925 if you have any questions regarding this filing.

Sincerely,

/s/

LISA PETERSON
MANAGER, REGULATORY ANALYSIS

Enclosures
c: Service List

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie Sieben	Chair
Valerie Means	Commissioner
Matthew Schuerger	Commissioner
John Tuma	Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF AN EXTENSION OF A
RULE VARIANCE TO USE A MONTHLY
DEMAND COST TRUE-UP MECHANISM

DOCKET NO. G002/M-20-____

PETITION

INTRODUCTION

Northern States Power Company, a Minnesota corporation, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission, a request to extend an existing variance to the Purchased Gas Adjustment (PGA) Rules, Minn. R. 7825.2700, subp. 5, related to the recovery of demand costs.

The variance allows the Company to collect or return under- and over-recoveries of demand costs on a monthly basis instead of an annual basis. This approach (herein referred to as the “Monthly Demand True-up”) minimizes the over- or under-recovery of demand costs during a gas year due to weather conditions varying from normal, while maintaining a limit on the size of the adjustment in any one month.

The Commission last approved the same variance we seek in this filing, in its April 21, 2017 Order in Docket No. G002/M-17-101. The variance approved by the Commission in the April 2017 Order will expire September 30, 2020. We respectfully request an extension of the variance to the PGA rules for an additional three years, through September 30, 2023.

I. SUMMARY OF FILING

A one-paragraph summary of the filing accompanies this petition pursuant to Minn. R. 7829.1300, subp. 1.

II. SERVICE ON OTHER PARTIES

Pursuant to Minn. Stat. § 216.17 subd. 3 and Minn. R. 7829.1300, subp. 2, Xcel Energy has electronically filed this petition. A summary of the filing has been served on all parties on Xcel Energy's miscellaneous gas service list (attached).

III. GENERAL FILING INFORMATION

Pursuant to Minnesota Rules 7825.3200, 7825.3500, and 7829.1300, subp. 3, Xcel Energy provides the following required information:

A. Name, Address, and Telephone Number of Utility

Northern States Power Company, doing business as:
Xcel Energy
414 Nicollet Mall
Minneapolis, MN 55401
(612) 330-5500

B. Name, Address, and Telephone Number of Utility Attorney

Mara K. Ascheman
Senior Attorney
Xcel Energy
414 Nicollet Mall, 401 – 8th Floor
Minneapolis, MN 55401
(612) 215-4605

C. Date of Filing and Date Modified Rates Take Effect

Xcel Energy submits this petition for approval on February 14, 2020. The proposed effective date for this variance is October 1, 2020.

D. Statute Controlling Schedule for Processing the Filing

The applicable statute is Minn. Stat. § 216B.16, subd. 1, which allows a tariff change to be placed into effect on 60-days notice to the Commission, unless the proposed tariff is suspended by Commission order. The proposed tariff change discussed in this Petition falls within the definition of a “miscellaneous filing,” under Minn. R. 7829.0100, subp. 11, because no determination of Xcel Energy's general revenue requirement is necessary. Minn. R. 7829.1400, subps. 1 and 4, permits comments in response to a miscellaneous filing within 30 days of filing, with reply comments 10 days thereafter.

E. Utility Employee Responsible for Filing

Lisa Peterson
Manager, Regulatory Analysis
Xcel Energy
414 Nicollet Mall, 401 – 7th Floor
Minneapolis, MN 55401
(612) 330-7681

IV. MISCELLANEOUS INFORMATION

Pursuant to Minn. R. 7829.0700, Xcel Energy requests that the following persons be placed on the Commission’s official service list for this matter:

Mara K. Ascheman
Senior Attorney
Xcel Energy
414 Nicollet Mall, 401 – 8th Floor
Minneapolis, MN 55401
mara.k.ascheman@xcelenergy.com

Lynnette Sweet
Regulatory Administrator
Xcel Energy
414 Nicollet Mall, 401 – 7th Floor
Minneapolis, MN 55401
regulatory.records@xcelenergy.com

Any information requests in this proceeding should be submitted to the Regulatory Records email address above.

V. DESCRIPTION AND PURPOSE OF FILING

A. Background

The Company requests the extension of a variance to Minn. R. 7825.2700, subp. 5 in order to continue using the Monthly Demand Cost True-up mechanism. This variance was originally approved in June 2004 in Docket No. G002/M-03-843.¹ Since that time, the variance has been regularly extended by subsequent Commission order. Table 1 below shows the other dockets where this variance was granted.

¹ Docket No. G002/M-03-843, Order Approving a Monthly Demand Cost True-Up Mechanism with Requirements and Granting a Variance Until September 30, 2006.

Table 1: Previous Monthly Demand Variance Dockets

<u>Docket No.</u>	<u>Order Date</u>	<u>Extended through</u>
G002/M-03-843	June 11, 2004	September 30, 2006
G002/M-06-681	September 11, 2007	September 30, 2008
G002/M-08-456	September 2, 2008	September 30, 2011
G002/M-11-203	June 24, 2011	September 30, 2014
G002/M-14-171	July 28, 2014	September 30, 2017
G002/M-17-101	April 21, 2017	September 30, 2020

Using the Monthly Demand Cost True-up mechanism, the Company employs the current demand rate recovery calculation methodology as defined by Minn. R. 7825.2700, subp. 5, but determines the recovery on a monthly basis. The Company proposes to continue applying the existing annual true-up calculation to demand costs in order to ensure a final annual true-up of any remaining costs not accounted for through the Monthly Demand True-up.

We note that CenterPoint Energy (CPE) has previously filed for similar variances. Most recently, on May 21, 2019, CPE filed a Petition for a permanent rule variance in Docket No. G008/M-19-342. In the September 5, 2019 Order in that docket, CPE was granted a three-year variance.

B. Purpose of the Filing

The purpose of this filing is to request extension of the Company's variance to the PGA rules, which will otherwise expire on September 30, 2020.

1. Extension of Variance

The Company respectfully requests the extension of a variance to Minn. R. 7825.2700, subp. 5 for an additional three years, i.e., through September 30, 2023, in order to continue using the Monthly Demand True-up. A three-year variance is consistent with the Commission's April 21 Order, as well as CPE's most recently-granted variances. Granting an extension of the variance will allow for the Company's continued use of the Monthly Demand True-up that provides a timelier matching of costs and cost recovery for both customers and the Company.

2. Purpose of the Monthly Demand Cost True-up Mechanism

Gas costs are classified as either commodity-related or demand-related within the PGA. Demand costs are, for the most part, fixed costs paid to interstate pipelines. For non-demand billed customers, demand costs are recovered from customers

volumetrically through the PGA in billing rates. The demand-cost recovery rate is calculated based on weather-normalized sales, consistent with Commission Rules. However, the demand costs are recovered based on actual sales. Therefore, the over- or under-recovery of demand costs is due, primarily, to factors impacting the difference between actual and weather-normalized sales during the true-up year. In a warmer than normal year, demand costs will be under-recovered, and the opposite will occur in a colder than normal year.

The purpose of the Monthly Demand True-up is to minimize the over- or under-recovery of demand costs during a gas year due to weather conditions varying from normal, without having too large of an adjustment in any one month. While this methodology does not exactly align demand-cost expense and demand-cost recovery, it is expected to help minimize the potential end-of-the-year true-up. This Monthly Demand True-up is expected to lower billing rates during times of colder-than-normal weather, when usage, and therefore customer bills, are high; conversely, the monthly true-up is expected to increase rates during warmer-than-normal weather, when usage is low and customer bills are low. Under both scenarios, a timelier match of demand-cost expense with demand-cost recovery will occur.

The inaccuracy of demand-cost recovery results from factors that are essentially out of the Company's control, including abnormal weather (*i.e.*, actual ambient air temperatures that deviate from the 20-year average for the month), timing of upstream pipeline rate changes approved by the Federal Energy Regulatory Commission, and other factors. While the Commission's rules provide for an annual true-up, which assures there is ultimately no over- or under-recovery, the year-to-year over- or under-recovery of demand costs may lead to cost shifts between customers from one year to the next, as well as time-value financial impacts for both the Company and its customers.

As will be discussed further below, our experience with the Monthly Demand True-up mechanism demonstrates the value of this matching in reducing the impact of subsequent adjustments on both customers and the Company.

C. Description of the Monthly Demand Cost True-up Mechanism

We are proposing to continue to use the same Monthly Demand True-up originally approved in Docket No. G002/M-03-843, with the addition of a capacity release adjustment as approved in Docket No. G002/M-08-456. The Monthly Demand True-up is only applied to the Company's non-demand billed firm customers, with separate calculations for the Residential and Commercial classes. The Monthly Demand True-up factor is calculated and included in the PGA from October through May.

To determine the factors, the Company first calculates the demand cost over- or under-recovery for each calendar month. We make this calculation by multiplying the difference between forecasted and actual calendar month sales by the Demand Unit Cost rate in the PGA for that calendar month.

On a lagged basis, the monthly over- or under-recovery is added to the over- or under-recovery collected using the Monthly Demand True-up rate itself. On a lagged basis, we also include the amount of capacity release dollars not recognized in the PGA in a month. The demand over- or under-recovery is added to the capacity release over- or under-recovery to create the total lagged over- or under-recovery. This lagged over- or under-recovery is divided by the forecasted sales to determine the month's Monthly Demand True-up rate, subject to a cap (described below).

The resulting Monthly Demand True-up rate component is then added to the subsequent month's PGA base demand rate, which will continue to be calculated consistent with the Commission's Rules. Because the monthly PGA filing occurs prior to availability of actual month-end data for the current month, to enable the use of actual revenue and cost information, the Company must use a one-month lag in the application of this Monthly Demand True-up. The PGA schedule calculating the Monthly Demand True-up for true-up year 2018-2019 is provided as Attachment A.²

Extremely abnormal weather could cause the Monthly Demand True-up factor to be large. Therefore, we propose to continue to cap the monthly adjustment. In the months of October, April, and May, our proposed cap is 25 percent of the demand-cost recovery rate. To accommodate for the Company's seasonal rates, in the months of November through March (the Company's "winter" months), the proposed cap is 125 percent of the levelized demand rate, minus the actual demand-cost recovery rate.

Levelized demand is the total twelve-month demand-cost for non-demand billed firm customers divided by the annual firm sales. We propose to continue to use all calendar month volumes and rates in our calculation of the Monthly Demand True-up factors. This methodology is consistent with the Monthly Demand True-up previously approved by the Commission.

² As the Company noted in our 2019 Annual Automatic Adjustment of Charges-Gas Filing (August 30, 2019, Docket No. G999/AA-19-401), 2019 Annual Purchased Gas Adjustment True-up Filing (August 30, 2019, Docket No. G002/AA-19-551), and Notice of Change in Purchased Gas Adjustment Filing (August 29, 2019, Docket No. G002/AA-19-543), an error was discovered in the Monthly Demand True-up Calculation for the 2018-2019 year. The impact of this error was that the Company credited back an additional \$876,013 in demand cost over-recovery through this mechanism than would have otherwise been. The Company provides "as filed" and corrected versions here, consistent with Appendix 1 of our August 30th filing in Docket No. G002/AA-19-551.

D. Analysis of the Monthly Demand Revenue True-up Mechanism

1. Cost Recovery

The Monthly Demand True-up continues to benefit customers by minimizing the annual demand-cost under- and over-recoveries due to the weather. Table 2 below shows the over- and under-recoveries, with and without the Monthly Demand True-up. We provide further details in Attachment B.³

Table 2: Over(Under) Recovery of Demand Costs

<u>True-up Year</u>	<u>With Monthly Demand True-up (Actual)</u>		<u>Without Monthly Demand True-up</u>	
2004-2005	(\$652,620)	-0.76%	(\$3,719,363)	-5.46%
2005-2006	(\$3,049,081)	-5.38%	(\$6,185,302)	-11.11%
2006-2007	\$4,350,806	8.38%	\$703,577	1.64%
2007-2008	\$2,628,293	6.25%	\$3,496,825	8.20%
2008-2009	\$2,433,476	5.70%	\$3,595,452	8.38%
2009-2010	(\$364,022)	-0.74%	(\$868,664)	-1.82%
2010-2011	\$1,747,270	3.71%	\$2,501,934	5.27%
2011-2012	(\$4,997,545)	-9.96%	(\$7,563,341)	-15.11%
2012-2013	\$2,353,998	4.74%	\$2,047,095	4.12%
2013-2014	\$7,372,733	15.11%	\$10,967,375	22.45%
2014-2015	\$2,525,679	5.56%	\$4,505,962	9.85%
2015-2016	(\$2,638,930)	-5.43%	(\$5,530,911)	-11.47%
2016-2017	(\$996,915)	-2.09%	(\$2,881,719)	-6.05%
2017-2018	\$4,167,484	8.76%	\$7,625,510	16.03%
2018-2019	\$3,098,460	6.38%	\$6,871,379	14.14%

The goal of the mechanism is for actual over- or under-recovery to be closer to zero than it would have been without the Monthly Demand True-up. As shown above, this has happened in thirteen of the fifteen years. The two other years situations happened for which the mechanism was not designed to compensate, as further explained below.

As discussed in our 2008 variance filing,⁴ in 2006-2007 there was a large capacity release transaction. The capacity release was properly treated in the annual true-up

³ Data comes from Schedule I of the Company's Annual True-up Filings, Docket Nos. G002/AA-05-1425, G002/AA-06-1268, G002/AA-07-1159, G002/AA-08-1054, G002/AA-09-1044, G002/AA-10-962, G002/AA-11-895, G002/AA-12-945, G002/AA-13-783, G002/AA-14-736, G002/AA-15-809, G002/AA-16-725, G002/AA-17-657, G002/AA-18-572, and G002/AA-19-551.

⁴ Docket No. G002/M-08-456

filing, but the PGA process at that time was not set up to capture capacity release transactions. As part of the 2008 variance filing, a process was set up to handle capacity release transactions in the PGA and adjust for them in the Monthly Demand True-up.

As discussed in our 2014 variance filing,⁵ in the 2012-2013 true-up year, the abnormally cold 2013 spring and associated increased sales led to an over-recovery late in the true-up year which could not be resolved due to the amount of time left in the true-up year and the caps on the size of the adjustments. We continue to believe that caps are appropriate in the mechanism and that overall the mechanism successfully performs as designed.

As shown in Table 1 above, for each of the last three years the actual over- or under-recovery was closer to zero than it would have been without the Monthly Demand True-up. As part of their analyses in AAA Docket Nos. G999/AA-14-580 and G999/AA-15-612, the Department noted that, except for the years 2006-2007 and 2012-2013, the program continues to match costs better within the true-up year than would have been the case without the program.

2. *Customer Billing Impacts*

As shown in Attachment C, the bill impacts from the Monthly Demand True-up have been moderate. Table 3 below shows the largest Monthly Demand True-up charge and largest Monthly Demand True-up credit to a typical Residential customer in each of the True-up years.

Table 3: Extreme Monthly Demand True-up Dollar Amounts for Typical Residential Customer

<u>True-up Year</u>	<u>Largest Charge</u>			<u>Largest Credit</u>		
	<u>Amt of Adj.</u>	<u>% of bill</u>	<u>Month</u>	<u>Amt of Adj.</u>	<u>% of bill</u>	<u>Month</u>
2004-2005	\$2.66	1.44%	January	(\$0.21)	0.42%	October
2005-2006	\$1.58	0.90%	February	(\$0.30)	0.64%	April
2006-2007	\$1.97	1.13%	February	(\$0.46)	0.35%	December
2007-2008	\$0.76	0.42%	January	(\$0.71)	0.46%	March
2008-2009	\$0.16	0.09%	December	(\$0.77)	0.62%	February
2009-2010	\$1.45	0.92%	January	(\$0.72)	0.98%	March
2010-2011	\$0.26	0.19%	December	(\$0.94)	0.89%	March
2011-2012	\$1.24	1.12%	January	(\$0.00)	0.00%	October

⁵ Docket No. G002/M-14-171

<u>True-up Year</u>	<u>Largest Charge</u>			<u>Largest Credit</u>		
	<u>Amt of Adj.</u>	<u>% of bill</u>	<u>Month</u>	<u>Amt of Adj.</u>	<u>% of bill</u>	<u>Month</u>
2012-2013	\$1.23	1.20%	February	(\$0.57)	0.90%	April
2013-2014	\$0.02	0.02%	November	(\$1.52)	0.99%	February
2014-2015	\$0.32	1.29%	May	(\$1.48)	1.14%	January
2015-2016	\$1.37	1.24%	January	none	none	N/A
2016-2017	\$1.47	1.17%	January	(\$0.31)	0.40%	February
2017-2018	\$0.19	0.18%	December	(\$1.44)	1.32%	February
2018-2019	\$0.28	0.25%	February	(\$1.85)	1.36%	January

E. Reporting and Evaluation Requirements

Consistent with past Commission-approved reporting requirements, we propose to:

- Provide a detailed calculation of the adjustment factor in pages 4-5 of Schedule A of the Company's monthly PGA filing (the last full true-up year is included as Attachment A in this filing);
- Identify the adjustment and the resulting total non-demand billed Demand-Cost Recovery Rate for the month as separate line items on page 3 of Schedule A of its monthly PGA filing; and
- Separately identify (by customer class) the Monthly Demand True-up revenues and summarize the following for each firm, non-demand billed customer class in the Company's annual true-up filing:
 - a. The annual demand-cost recovery absent the adjustments;
 - b. The total annual adjustment recovery; and
 - c. The remaining current year demand cost recovery true-up balance.

F. Application of Variance Standards

Minn. Rules 7825.2390 through 7825.2920 govern the automatic adjustment of charges for both gas and electric utilities. Minn. R. 7825.2700 specifically outlines the calculation for determining the automatic adjustment for natural gas utilities. Under this rule, any over- or under-recovery is charged to, or returned to, customers over the next 12 months beginning September 1 each year.

We request a three-year variance from Minn. R. 7825.2700, subp. 5. While Minnesota Rules provide a month-to-month adjustment for the demand and commodity cost components of the PGA, the Monthly Demand True-up requested in this Petition will allow a timelier match between costs and cost recovery; monthly adjustments mitigate over- and under-recovery deviations and associated adverse financial impacts on customers and the Company.

Minn. R. 7829.3200 establishes three required standards for granting a variance:

1. enforcement of the rule would impose an excessive burden upon the applicant or others affected by the rule;
2. granting the variance would not adversely affect the public interest; and
3. granting the variance would not conflict with standards imposed by law.

We address each of these standards below:

1. *Excessive Burden Standard*

Enforcement of the rule imposes a burden on our customers because, with a yearly PGA true-up, the under- or over-recovery of demand costs incurred in one year is shifted to the ratepayers that take gas from the Company in the following year. This shift may impose a financial burden on customers, as new customers could be responsible for charges that were incurred by others, and customers who move away cannot recoup any overpayment. As there are no carrying charges applied to the over- or under-recovery, potentially large annual true-up balances can financially harm both customers and the Company. The potential for this harm is supported by the information provided with this Petition as Attachment B.

2. *Public Interest is Not Adversely Affected*

The public interest will not be adversely affected by granting the variance. Indeed, because the variance will more accurately match cost causation with cost recovery, it is consistent with the public interest. The variance will allow the Company to price service to more accurately reflect the demand costs being incurred by the Company, and mitigate the potential that future customers will experience an extreme demand cost shift.

3. *Does Not Conflict With Standards Imposed By Law*

Xcel Energy is not aware of any laws that would be violated by granting this variance.

We believe these conditions support our request for a variance, and are consistent with the conditions that supported the Commission's Orders in prior dockets on this matter.

VI. EFFECT OF CHANGE UPON XCEL ENERGY

Xcel Energy's total revenue recovery is unaffected by this Petition. The Monthly Demand True-up causes a cost recovery timing change that provides a better match between demand cost incurrence and recovery on an annual basis.

CONCLUSION

We respectfully request that the Commission grant this variance extension, which will allow for continued use of the Monthly Demand True-up, which provides a timelier matching of costs and cost recovery for both customers and the Company.

Dated: February 14, 2020

Northern States Power Company

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie Sieben
Valerie Means
Matthew Schuerger
John Tuma

Chair
Commissioner
Commissioner
Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF AN EXTENSION OF A
RULE VARIANCE TO USE A MONTHLY
DEMAND COST TRUE-UP MECHANISM

DOCKET NO. G002/M-20-____

PETITION

SUMMARY OF FILING

Please take notice that on February 14, 2020, Northern States Power Company, doing business as Xcel Energy, filed with the Minnesota Public Utilities Commission its Petition for approval of an extension of the variance to Minn. R. 7825.2700, subp. 5, of the Purchased Gas Adjustment (PGA) rules related to the calculation of the demand adjustment. This variance is needed so that the Company can continue to use the Monthly Demand Cost True-up mechanism previously approved by the Commission in Docket Nos. G002/M-03-843, G002/M-06-681, G002/M-08-456, G002/M-11-203, G002/M-14-171, and G002/M-17-101. The Monthly Demand Cost True-up mechanism enables a timelier matching of costs and cost recovery in the PGA mechanism.

Northern States Power Company
Gas Operations - State of MN
MONTHLY DEMAND TRUE-UP MECHANISM
Filed August 30, 2019

As Filed - Schedule I
Page 1 of 2

Residential Demand	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(h [^])	(i)	(j)	(k)
	Calculated* PGA Sales	Calendar Month Actual Sales	Sales* Difference	Calendar Demand Rate	Demand Cost* Over/(Under)	Capacity Release Over/(Under)	Lagged* Over/(Under)	Calculated Demand Rate Adder**	Actual* Demand Rate Adder	Actual* Demand Rate Recovery	Demand* Rate Adder* Over/(Under)	Net* Over/(Under)
2018 - 2019	Page 2, col. (d)		(b - a)		(c * d)	Page 2, col. (u) (e[-2] + f[-2] + j[-2])		min(g/a, cap)		(b * h [^])	(g + i)	(e + f + i)
Jul	5,897,142	6,308,004	410,862	\$0.05040	\$20,707	\$0						\$20,708
Aug	6,095,783	6,733,188	637,405	\$0.05040	\$32,125	\$0						\$32,125
Sep	8,095,561	8,200,332	104,771	\$0.04771	\$4,999	\$0						\$4,999
Oct	18,014,949	25,087,990	7,073,041	\$0.04771	\$337,455	\$0	\$52,833		(\$0.00293)	(\$73,508)	(\$20,675)	\$263,947
Nov	38,870,789	52,006,960	13,136,171	\$0.09364	\$1,230,071	\$0	\$4,999		(\$0.00013)	(\$6,761)	(\$1,762)	\$1,223,310
Dec	60,132,341	58,987,217	(1,145,124)	\$0.09490	(\$108,672)	\$0	\$316,780		(\$0.00527)	(\$310,863)	\$5,917	(\$419,535)
Jan	68,605,146	79,273,121	10,667,975	\$0.09490	\$1,012,391	\$0	\$1,228,309		(\$0.00995)	(\$788,768)	\$439,541	\$223,623
Feb	57,450,991	67,341,900	9,890,909	\$0.09490	\$938,647	\$0	(\$102,755)		\$0.00179	\$120,542	\$17,787	\$1,059,189
Mar	45,743,583	54,845,094	9,101,511	\$0.09487	\$863,460	\$0	\$1,451,932		(\$0.00995)	(\$545,709)	\$906,223	\$317,752
Apr	24,315,222	28,196,666	3,881,444	\$0.04861	\$188,677	\$4	\$956,434		(\$0.01215)	(\$342,589)	\$613,845	(\$153,909)
May	11,497,996	17,191,600	5,693,604	\$0.04896	\$278,759	\$4	\$1,769,684		(\$0.01224)	(\$210,425)	\$1,559,259	\$68,337
Jun	<u>7,392,084</u>	<u>8,570,314</u>	<u>1,178,230</u>	\$0.04896	<u>\$57,686</u>	\$4						<u>\$57,690</u>
Tot	352,111,587	412,742,386	60,630,799		\$4,856,305					(\$2,158,080)		\$2,698,237

Commercial Non-Demand	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(h [^])	(i)	(j)	(k)
	Calculated* PGA Sales	Calendar Month Actual Sales	Sales* Difference	Calendar Demand Rate	Demand Cost* Over/(Under)	Capacity Release Over/(Under)	Lagged* Over/(Under)	Calculated Demand Rate Adder*	Actual* Demand Rate Adder	Demand* Rate Recovery	Demand* Rate Adder* Over/(Under)	Net* Over/(Under)
2018 - 2019	Page 2, col. (f)		(b - a)		(c * d)	Page 2, col. (u) (e[-2] + f[-2] + j[-2])		min(g/a, cap)		(b * h [^])	(g + i)	(e + f + i)
Jul	4,870,432	4,142,259	(728,173)	\$0.05040	(\$36,700)	\$0						(\$36,700)
Aug	4,584,202	4,619,227	35,025	\$0.05040	\$1,765	\$0						\$1,765
Sep	4,844,213	5,404,414	560,201	\$0.04771	\$26,727	\$0						\$26,727
Oct	6,165,378	14,537,094	8,371,716	\$0.04771	\$399,415	\$0	(\$34,935)		\$0.00568	\$82,571	\$47,636	\$481,985
Nov	12,590,506	29,677,720	17,087,214	\$0.09364	\$1,600,047	\$0	\$26,727		(\$0.00212)	(\$62,917)	(\$36,190)	\$1,537,130
Dec	24,787,847	35,139,065	10,351,218	\$0.09490	\$982,331	\$0	\$447,051		(\$0.00995)	(\$349,634)	\$97,417	\$632,697
Jan	38,831,183	43,206,606	4,375,423	\$0.09490	\$415,228	\$0	\$1,563,857		(\$0.00995)	(\$429,906)	\$1,133,951	(\$14,678)
Feb	43,503,773	36,538,178	(6,965,595)	\$0.09490	(\$661,035)	\$0	\$1,079,748		(\$0.00995)	(\$363,555)	\$716,193	(\$1,024,590)
Mar	36,519,747	33,592,746	(2,927,001)	\$0.09487	(\$277,685)	\$0	\$1,549,179		(\$0.00995)	(\$334,248)	\$1,214,931	(\$611,932)
Apr	30,240,875	17,551,841	(12,689,034)	\$0.04861	(\$616,814)	\$2	\$55,158		(\$0.00182)	(\$31,944)	\$23,213	(\$648,756)
May	15,380,064	10,229,246	(5,150,818)	\$0.04896	(\$252,184)	\$2	\$937,247		(\$0.01224)	(\$125,206)	\$812,041	(\$377,388)
Jun	<u>9,495,022</u>	<u>4,863,918</u>	<u>(4,631,104)</u>	\$0.04896	<u>(\$226,739)</u>	\$2	(\$593,598)					<u>(\$226,737)</u>
Tot	231,813,242	239,502,315	7,689,073		\$1,354,356					(\$1,614,839)		(\$260,476)

Total Firm Demand Cost Recovery Revenue (Net) \$6,210,661 (\$3,772,919) \$2,437,761

*Due to the use of MN Company forecast sales instead of MN only sales to allocate the PGA annual sales to monthly, the demand cost over-recovery credit to customers was \$876,013 more than the \$2,896,906 actual over-recovery for this period.

Note that Col (g) for Oct reflects the total of Jul and Aug, not just Aug.

Note that Col (h) is adjusted to have the opposite sign of Col (g).

** The "cap" is determined by:

Summer -- 0.25 * Dmd Unit Cost/Thm, Annual (from PGA Sch A, p. 3, Line 10)

Winter -- 1.25 * Levelized Demand - Dmd Unit Cost/Thm, Total (from PGA Sch. A, p. 3, Line 10);

Levelized Demand = (Non-Demand Billed Allocation, Annual + Non-Demand Billed Allocation, Winter)/MN Firm Therm Sales, Annual (from PGA Sch. A, p. 3, Lines 7 & 9)

Northern States Power Company
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PGA CALCULATED SALES CALCULATION

	(a)	(b)	(c)	(d)	(e)	(f)
	Monthly %	Annual PGA	Residential	Residential*	Non-Demand	Commercial*
	of Annual	Forecasted Sales	PGA Sales %	Calculated	Billed	Calculated
2018 - 2019	Budgeted Sales	Per MN Rule	PGA Sales %	PGA Sales	PGA Sales %	PGA Sales
	(a * Annual Sales	(d / b)	(thm)	(f / b)	(thm)	
July	1.84%	10,767,574	54.8%	5,897,142	45.2%	4,870,432
August	1.83%	10,679,985	57.1%	6,095,783	42.9%	4,584,202
September	2.22%	12,939,774	62.6%	8,095,561	37.4%	4,844,213
October	4.14%	24,180,327	74.5%	18,014,949	25.5%	6,165,378
November	8.81%	51,461,295	75.5%	38,870,789	24.5%	12,590,506
December	14.54%	84,920,188	70.8%	60,132,341	29.2%	24,787,847
January	18.40%	107,436,329	63.9%	68,605,146	36.1%	38,831,183
February	17.29%	100,954,764	56.9%	57,450,991	43.1%	43,503,773
March	14.09%	82,263,330	55.6%	45,743,583	44.4%	36,519,747
April	9.34%	54,556,097	44.6%	24,315,222	55.4%	30,240,875
May	4.60%	26,878,060	42.8%	11,497,996	57.2%	15,380,064
June	<u>2.89%</u>	<u>16,887,106</u>	<u>43.8%</u>	<u>7,392,084</u>	<u>56.2%</u>	<u>9,495,022</u>
Annual	100.00%	583,924,829		352,111,587		231,813,242

CAPACITY RELEASE ADJUSTMENT CALCULATION

	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)
	NSPM**	NSPM**	NSPM**		MN-state	MN-State	MN-State	MN-State	MN-State	MN-State	MN-State	MN-State	MN-State
	Actual	Capacity	Capacity		Capacity	Firm	Firm	Residential	Commercial	Residential	Commercial	Residential	Commercial
	Capacity	Release	Release	MN-State	Release	Demand	Release	Calendar	Calendar	% of Firm	% of Firm	Capacity	Capacity
2018 - 2019	Release***	in PGA	not in PGA	Allocator	Not in PGA	Allocator	Not in PGA	Actual Sales	Actual Sales	Billed Sales	Billed Sales	Not in PGA	Not in PGA
		j - k			l * m		n * o	Page 1, col. (b)	Page 1, col. (b)	q / (q + r)	r / (q + r)	p * s	p * t
July	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	6,308,004	4,142,259	60.36%	39.64%	(\$0)	(\$0)
August	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	6,733,188	4,619,227	59.31%	40.69%	(\$0)	(\$0)
September	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	8,200,332	5,404,414	60.28%	39.72%	(\$0)	(\$0)
October	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	25,087,990	14,537,094	63.31%	36.69%	(\$0)	(\$0)
November	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	52,006,960	29,677,720	63.67%	36.33%	\$0	\$0
December	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	58,987,217	35,139,065	62.67%	37.33%	\$0	\$0
January	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	79,273,121	43,206,606	64.72%	35.28%	\$0	\$0
February	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	67,341,900	36,538,178	64.83%	35.17%	\$0	\$0
March	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	54,845,094	33,592,746	62.02%	37.98%	\$0	\$0
April	(\$25,840)	(\$25,833)	(\$7)	87.51%	(\$6)	96.67%	(\$6)	28,196,666	17,551,841	61.63%	38.37%	(\$4)	(\$2)
May	(\$25,840)	(\$25,833)	(\$7)	87.51%	(\$6)	96.67%	(\$6)	17,191,600	10,229,246	62.70%	37.30%	(\$4)	(\$2)
June	<u>(\$25,840)</u>	<u>(\$25,833)</u>	<u>(\$7)</u>	87.51%	<u>(\$6)</u>	96.67%	<u>(\$6)</u>	<u>8,570,314</u>	<u>4,863,918</u>	63.79%	36.21%	<u>(\$4)</u>	<u>(\$2)</u>
Annual	(\$168,623)	(\$168,601)	(\$22)		(\$19)		(\$18)	412,742,386	239,502,315			(\$12)	(\$7)

*Due to the use of MN Company forecast sales instead of MN only sales to allocate the PGA annual sales to monthly, the demand cost over-recovery credit to customers was \$876,013 more than the \$2,896,906 actual over-recovery for this period.

** NSPM includes service to Minnesota and North Dakota

*** Actual Capacity Release data is lagged by two months.

	Actual Demand	Monthly*	Demand
Description	Recovery	Recovery	Recovery
			Recovery
			Absent
			Monthly True-up
Residential	\$31,861,377	(\$2,158,080)	\$34,019,457
Commercial	\$17,976,329	(\$1,614,839)	\$19,591,168
Demand-Billed	<u>\$1,815,300</u>	<u>\$0</u>	<u>\$1,815,300</u>
Total	\$51,653,006	(\$3,772,919)	\$55,425,924
			Demand
			Recovery
			Absent
			Monthly True-up
Residential	\$2,245,600	(\$2,158,080)	\$4,403,680
Commercial	\$809,112	(\$1,614,839)	\$2,423,950
Demand-Billed	<u>\$43,749</u>	<u>\$0</u>	<u>\$43,749</u>
Total	\$3,098,460	(\$3,772,919)	\$6,871,379

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Corrected Schedule I
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Corrected												
Residential Demand	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(h^)	(i)	(j)	(k)
2018 - 2019	Calculated PGA Sales	Calendar Month Actual Sales	Sales Difference	Calendar Demand Rate	Demand Cost Over/(Under)	Capacity Release Over/(Under)	Lagged Over/(Under)	Calculated Demand Rate Adder*	Actual Demand Rate Adder	Actual Demand Rate Recovery	Rate Adder Over/(Under)	Net Over/(Under)
	Page 2, col. (d)		(b - a)		(c * d)	Page 2, col. (u)	(e[-2] + f[-2] + j[-2])	min(g/a, cap)		(b * h^)	(g + i)	(e + f + i)
Jul	6,436,761	6,308,004	(128,757)	\$0.05040	(\$6,489)	\$0						(\$6,489)
Aug	6,611,941	6,733,188	121,247	\$0.05040	\$6,111	\$0						\$6,111
Sep	8,703,047	8,200,332	(502,715)	\$0.04771	(\$23,985)	\$0						(\$23,984)
Oct	18,925,070	25,087,990	6,162,920	\$0.04771	\$294,033	\$0	(\$378)		\$0.00002	\$502	\$123	\$294,535
Nov	40,683,015	52,006,960	11,323,945	\$0.09364	\$1,060,374	\$0	(\$23,984)		\$0.00059	\$30,684	\$6,700	\$1,091,058
Dec	63,024,149	58,987,217	(4,036,932)	\$0.09490	(\$383,105)	\$0	\$294,156		(\$0.00467)	(\$275,470)	\$18,686	(\$658,575)
Jan	71,778,442	79,273,121	7,494,679	\$0.09490	\$711,245	\$0	\$1,067,074		(\$0.00995)	(\$788,768)	\$278,306	(\$77,523)
Feb	60,231,402	67,341,900	7,110,498	\$0.09490	\$674,786	\$0	(\$364,419)		\$0.00605	\$407,418	\$43,000	\$1,082,205
Mar	47,787,668	54,845,094	7,057,426	\$0.09487	\$669,538	\$0	\$989,551		(\$0.00995)	(\$545,709)	\$443,843	\$123,829
Apr	25,673,687	28,196,666	2,522,979	\$0.04861	\$122,642	\$4	\$717,786		(\$0.01215)	(\$342,589)	\$375,196	(\$219,944)
May	12,219,791	17,191,600	4,971,809	\$0.04896	\$243,420	\$4	\$1,113,381		(\$0.01224)	(\$210,425)	\$902,956	\$32,998
Jun	8,030,283	8,570,314	540,031	\$0.04896	\$26,440	\$4	\$497,842					\$26,444
Tot	370,105,256	412,742,386	42,637,130		\$3,395,010					(\$1,724,357)		\$1,670,665

Commercial Non-Demand	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(h^)	(i)	(j)	(k)
2018 - 2019	Calculated PGA Sales	Calendar Month Actual Sales	Sales Difference	Calendar Demand Rate	Demand Cost Over/(Under)	Capacity Release Over/(Under)	Lagged Over/(Under)	Calculated Demand Rate Adder*	Actual Demand Rate Adder	Demand Rate Recovery	Demand Rate Adder Over/(Under)	Net Over/(Under)
	Page 2, col. (f)		(b - a)		(c * d)	Page 2, col. (u)	(e[-2] + f[-2] + j[-2])	min(g/a, cap)		(b * h^)	(g + i)	(e + f + i)
Jul	4,132,278	4,142,259	9,981	\$0.05040	\$503	\$0						\$503
Aug	4,360,007	4,619,227	259,220	\$0.05040	\$13,065	\$0						\$13,065
Sep	5,521,362	5,404,414	(116,948)	\$0.04771	(\$5,580)	\$0						(\$5,580)
Oct	11,462,378	14,537,094	3,074,716	\$0.04771	\$146,695	\$0	\$13,568		(\$0.00118)	(\$17,154)	(\$3,586)	\$129,541
Nov	22,742,900	29,677,720	6,934,820	\$0.09364	\$649,377	\$0	(\$5,580)		\$0.00025	\$7,419	\$1,840	\$656,796
Dec	35,956,949	35,139,065	(817,884)	\$0.09490	(\$77,617)	\$0	\$143,109		(\$0.00398)	(\$139,853)	\$3,255	(\$217,471)
Jan	40,311,768	43,206,606	2,894,838	\$0.09490	\$274,720	\$0	\$651,216		(\$0.00995)	(\$429,906)	\$221,311	(\$155,186)
Feb	34,107,493	36,538,178	2,430,685	\$0.09490	\$230,672	\$0	(\$74,362)		\$0.00218	\$79,653	\$5,291	\$310,325
Mar	27,859,794	33,592,746	5,732,952	\$0.09487	\$543,885	\$0	\$496,031		(\$0.00995)	(\$334,248)	\$161,783	\$209,637
Apr	14,056,558	17,551,841	3,495,283	\$0.04861	\$169,906	\$2	\$235,963		(\$0.01215)	(\$213,255)	\$22,708	(\$43,347)
May	8,725,593	10,229,246	1,503,653	\$0.04896	\$73,619	\$2	\$705,668		(\$0.01224)	(\$125,206)	\$580,462	(\$51,585)
Jun	4,582,493	4,863,918	281,425	\$0.04896	\$13,779	\$2	\$192,616					\$13,781
Tot	213,819,573	239,502,315	25,682,742		\$2,033,023					(\$1,172,549)		\$860,481

Total Firm Demand Cost Recovery Revenue (Net)	\$5,428,033	(\$2,896,906)	\$2,531,146
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Note that Col (g) for Oct reflects the total of Jul and Aug, not just Aug.

Note that Col (h) is adjusted to have the opposite sign of Col (g).

* The "cap" is determined by:

Summer -- 0.25 * Dmd Unit Cost/Thm, Annual (from PGA Sch A, p. 3, Line 10)

Winter -- 1.25 * Levelized Demand - Dmd Unit Cost/Thm, Total (from PGA Sch. A, p. 3, Line 10);

Levelized Demand = (Non-Demand Billed Allocation, Annual + Non-Demand Billed Allocation, Winter)/MN Firm Therm Sales, Annual (from PGA Sch. A, p. 3, Lines 7 & 9)

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Corrected Schedule I
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Corrected
PGA CALCULATED SALES CALCULATION

	(a)	(b)	(c)	(d)	(e)	(f)
	Monthly % of Annual	Annual PGA Forecasted Sales	Residential	Residential Calculated	Non-Demand Billed Commercial	Commercial Calculated
2018 - 2019	Budgeted Sales	Per MN Rule	PGA Sales %	PGA Sales	PGA Sales %	PGA Sales
	(a * Annual Sales)		(d / b)	(thm)	(f / b)	(thm)
July	1.81%	10,569,039	60.9%	6,436,761	39.1%	4,132,278
August	1.88%	10,971,948	60.3%	6,611,941	39.7%	4,360,007
September	2.44%	14,224,409	61.2%	8,703,047	38.8%	5,521,362
October	5.20%	30,387,448	62.3%	18,925,070	37.7%	11,462,378
November	10.86%	63,425,915	64.1%	40,683,015	35.9%	22,742,900
December	16.95%	98,981,098	63.7%	63,024,149	36.3%	35,956,949
January	19.20%	112,090,210	64.0%	71,778,442	36.0%	40,311,768
February	16.16%	94,338,895	63.8%	60,231,402	36.2%	34,107,493
March	12.96%	75,647,462	63.2%	47,787,668	36.8%	27,859,794
April	6.80%	39,730,245	64.6%	25,673,687	35.4%	14,056,558
May	3.59%	20,945,384	58.3%	12,219,791	41.7%	8,725,593
June	2.16%	12,612,776	63.7%	8,030,283	36.3%	4,582,493
Annual	100.00%	583,924,829		370,105,256		213,819,573

Description	Actual Demand Recovery	Monthly Demand Recovery	Demand Recovery Absent Monthly True-up
Residential	\$31,861,377	(\$1,724,357)	\$33,585,734
Commercial	\$17,976,329	(\$1,172,549)	\$19,148,878
Demand-Billed	\$1,815,300	\$0	\$1,815,300
Total	\$51,653,006	(\$2,896,906)	\$54,549,911

Description	Actual Demand Over/(Under)	Monthly Demand Recovery	Demand Recovery Absent Monthly True-up
Residential	\$2,245,600	(\$1,724,357)	\$3,969,957
Commercial	\$809,112	(\$1,172,549)	\$1,981,660
Demand-Billed	\$43,749	\$0	\$43,749
Total	\$3,098,460	(\$2,896,906)	\$5,995,366

CAPACITY RELEASE ADJUSTMENT CALCULATION

	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)
	NSPM* Actual Capacity Release**	NSPM* Capacity Release in PGA	NSPM* Capacity Release not in PGA	MN-State Allocator	MN-state Capacity Release Not in PGA	MN-State Firm Demand Allocator	MN-State Firm Capacity Release Not in PGA	MN-State Residential Calendar Month Actual Sales	MN-State Commercial Calendar Month Actual Sales	MN-State Residential % of Firm Non-Demand Billed Sales	MN-State Commercial % of Firm Non-Demand Billed Sales	MN-State Residential Capacity Release Not in PGA	MN-State Commercial Capacity Release Not in PGA
2018 - 2019	Release**	in PGA	not in PGA	Allocator	Not in PGA	Allocator	Not in PGA	Page 1, col. (b)	Page 1, col. (b)	q / (q + r)	r / (q + r)	p * s	p * t
July	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	6,308,004	4,142,259	60.36%	39.64%	(\$0)	(\$0)
August	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	6,733,188	4,619,227	59.31%	40.69%	(\$0)	(\$0)
September	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	8,200,332	5,404,414	60.28%	39.72%	(\$0)	(\$0)
October	(\$22,776)	(\$22,776)	(\$0)	87.57%	(\$0)	96.65%	(\$0)	25,087,990	14,537,094	63.31%	36.69%	(\$0)	(\$0)
November	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	52,006,960	29,677,720	63.67%	36.33%	\$0	\$0
December	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	58,987,217	35,139,065	62.67%	37.33%	\$0	\$0
January	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	79,273,121	43,206,606	64.72%	35.28%	\$0	\$0
February	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	67,341,900	36,538,178	64.83%	35.17%	\$0	\$0
March	\$0	\$0	\$0	87.51%	\$0	96.67%	\$0	54,845,094	33,592,746	62.02%	37.98%	\$0	\$0
April	(\$25,840)	(\$25,833)	(\$7)	87.51%	(\$6)	96.67%	(\$6)	28,196,666	17,551,841	61.63%	38.37%	(\$4)	(\$2)
May	(\$25,840)	(\$25,833)	(\$7)	87.51%	(\$6)	96.67%	(\$6)	17,191,600	10,229,246	62.70%	37.30%	(\$4)	(\$2)
June	(\$25,840)	(\$25,833)	(\$7)	87.51%	(\$6)	96.67%	(\$6)	8,570,314	4,863,918	63.79%	36.21%	(\$4)	(\$2)
Annual	(\$168,623)	(\$168,601)	(\$22)		(\$19)		(\$18)	412,742,386	239,502,315			(\$12)	(\$7)

* NSPM includes service to Minnesota and North Dakota
** Actual Capacity Release data is lagged by two months.

True-up Year 2004 - 2005

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$41,129,545	\$2,245,875	\$38,883,670
<u>Commercial</u>	<u>\$20,065,334</u>	<u>\$820,868</u>	<u>\$19,244,466</u>
Total	\$61,194,879	\$3,066,743	\$58,128,136

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	(\$46,924)	\$2,245,875	(\$2,292,799)
<u>Commercial</u>	<u>(\$605,697)</u>	<u>\$820,868</u>	<u>(\$1,426,564)</u>
Total	(\$652,620)	\$3,066,743	(\$3,719,363)

True-up Year 2005 - 2006

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$32,687,287	\$1,894,498	\$30,792,789
<u>Commercial</u>	<u>\$17,345,586</u>	<u>\$1,241,722</u>	<u>\$16,103,864</u>
Total	\$50,032,873	\$3,136,220	\$46,896,653

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	(\$2,178,710)	\$1,894,498	(\$4,073,208)
<u>Commercial</u>	<u>(\$870,372)</u>	<u>\$1,241,722</u>	<u>(\$2,112,094)</u>
Total	(\$3,049,081)	\$3,136,220	(\$6,185,302)

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

True-up Year 2006 - 2007

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$37,580,455	\$2,499,618	\$35,080,837
<u>Commercial</u>	<u>\$19,342,886</u>	<u>\$1,147,611</u>	<u>\$18,195,275</u>
Total	\$56,923,341	\$3,647,229	\$53,276,112

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	\$2,979,472	\$2,499,618	\$479,854
<u>Commercial</u>	<u>\$1,371,334</u>	<u>\$1,147,611</u>	<u>\$223,723</u>
Total	\$4,350,806	\$3,647,229	\$703,577

True-up Year 2007 - 2008

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$30,305,484	(\$679,741)	\$30,985,225
<u>Commercial</u>	<u>\$15,585,642</u>	<u>(\$188,791)</u>	<u>\$15,774,433</u>
Total	\$45,891,126	(\$868,532)	\$46,759,658

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	\$1,695,007	(\$679,741)	\$2,374,748
<u>Commercial</u>	<u>\$933,287</u>	<u>(\$188,791)</u>	<u>\$1,122,078</u>
Total	\$2,628,293	(\$868,532)	\$3,496,825

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

True-up Year 2008 - 2009

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$29,249,553	(\$825,991)	\$30,075,544
<u>Commercial</u>	<u>\$15,168,652</u>	<u>(\$335,985)</u>	<u>\$15,504,637</u>
Total	\$44,418,205	(\$1,161,976)	\$45,580,181

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	\$1,612,385	(\$825,991)	\$2,438,376
<u>Commercial</u>	<u>\$821,091</u>	<u>(\$335,985)</u>	<u>\$1,157,076</u>
Total	\$2,433,476	(\$1,161,976)	\$3,595,452

True-up Year 2009 - 2010

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$29,462,232	\$387,555	\$29,074,677
<u>Commercial</u>	<u>\$15,193,714</u>	<u>\$117,087</u>	<u>\$15,076,627</u>
Total	\$44,655,946	\$504,642	\$44,151,304

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	(\$142,642)	\$387,555	(\$530,197)
<u>Commercial</u>	<u>(\$221,380)</u>	<u>\$117,087</u>	<u>(\$338,467)</u>
Total	(\$364,022)	\$504,642	(\$868,664)

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

True-up Year 2010 - 2011

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$31,900,539	(\$513,963)	\$32,414,502
<u>Commercial</u>	<u>\$16,582,262</u>	<u>(\$240,700)</u>	<u>\$16,822,962</u>
Total	\$48,482,801	(\$754,664)	\$49,237,465

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	\$1,243,740	(\$513,963)	\$1,757,703
<u>Commercial</u>	<u>\$503,531</u>	<u>(\$240,700)</u>	<u>\$744,231</u>
Total	\$1,747,270	(\$754,664)	\$2,501,934

True-up Year 2011 - 2012

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$28,374,616	\$1,723,494	\$30,098,110
<u>Commercial</u>	<u>\$15,005,944</u>	<u>\$842,302</u>	<u>\$15,848,246</u>
Total	\$43,380,560	\$2,565,796	\$40,814,764

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	(\$3,164,360)	\$1,723,494	(\$4,887,854)
<u>Commercial</u>	<u>(\$1,833,185)</u>	<u>\$842,302</u>	<u>(\$2,675,487)</u>
Total	(\$4,997,545)	\$2,565,796	(\$7,563,341)

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

True-up Year 2012 - 2013

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$33,502,197	\$301,661	\$33,803,858
<u>Commercial</u>	<u>\$17,603,132</u>	<u>\$5,242</u>	<u>\$17,608,374</u>
Total	\$51,105,329	\$306,903	\$50,798,426

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	\$1,735,764	\$301,661	\$1,434,103
<u>Commercial</u>	<u>\$618,234</u>	<u>\$5,242</u>	<u>\$612,992</u>
Total	\$2,353,998	\$306,903	\$2,047,095

True-up Year 2013 - 2014

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$35,748,577	(\$2,237,067)	\$33,511,510
<u>Commercial</u>	<u>\$19,098,544</u>	<u>(\$1,357,576)</u>	<u>\$17,740,968</u>
Total	\$54,847,121	(\$3,594,643)	\$58,441,764

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	\$4,987,531	(\$2,237,067)	\$7,224,598
<u>Commercial</u>	<u>\$2,385,201</u>	<u>(\$1,357,576)</u>	<u>\$3,742,777</u>
Total	\$7,372,733	(\$3,594,643)	\$10,967,375

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

True-up Year 2014 - 2015

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$30,628,662	(\$1,071,468)	\$31,700,130
<u>Commercial</u>	<u>\$16,481,371</u>	<u>(\$908,815)</u>	<u>\$17,390,186</u>
Total	\$47,110,033	(\$1,980,283)	\$49,090,316

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	\$1,905,031	(\$1,071,468)	\$2,976,499
<u>Commercial</u>	<u>\$620,648</u>	<u>(\$908,815)</u>	<u>\$1,529,463</u>
Total	\$2,525,679	(\$1,980,283)	\$4,505,962

True-up Year 2015 - 2016

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$28,198,338	\$1,982,683	\$26,215,655
<u>Commercial</u>	<u>\$15,565,823</u>	<u>\$909,297</u>	<u>\$14,656,526</u>
Total	\$43,764,161	\$2,891,981	\$40,872,180

<u>Class</u>	<u>Actual Demand Over(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Over(Under) Absent Monthly True-up</u>
Residential	(\$1,479,052)	\$1,982,683	(\$3,461,735)
<u>Commercial</u>	<u>(\$1,159,878)</u>	<u>\$909,297</u>	<u>(\$2,069,175)</u>
Total	(\$2,638,930)	\$2,891,981	(\$5,530,911)

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

True-up Year 2016 - 2017

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$28,585,733	\$1,187,052	\$27,398,681
Commercial	\$16,364,685	\$697,752	\$15,666,933
<u>Demand-Billed</u>	<u>\$1,647,101</u>	<u>\$0</u>	<u>\$1,647,101</u>
Total	\$46,597,519	\$1,884,804	\$44,712,715

<u>Class</u>	<u>Actual Demand Over/(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	(\$592,038)	\$1,187,052	(\$1,779,089)
Commercial	(\$441,640)	\$697,752	(\$1,139,393)
<u>Demand-Billed</u>	<u>\$36,762</u>	<u>\$0</u>	<u>\$36,762</u>
Total	(\$996,915)	\$1,884,804	(\$2,881,719)

True-up Year 2017 - 2018

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$31,874,122	(\$2,063,787)	\$33,937,909
Commercial	\$18,085,118	(\$1,394,238)	\$19,479,356
<u>Demand-Billed</u>	<u>\$1,708,701</u>	<u>\$0</u>	<u>\$1,708,701</u>
Total	\$51,667,941	(\$3,458,025)	\$55,125,967

<u>Class</u>	<u>Actual Demand Over/(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$2,847,038	(\$2,063,787)	\$4,910,825
Commercial	\$1,247,019	(\$1,394,238)	\$2,641,257
<u>Demand-Billed</u>	<u>\$73,428</u>	<u>\$0</u>	<u>\$73,428</u>
Total	\$4,167,484	(\$3,458,025)	\$7,625,510

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

True-up Year 2018 - 2019

<u>Class</u>	<u>Actual Demand Recovery</u>	<u>Monthly* Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$31,861,377	(\$2,158,080)	\$34,019,457
Commercial	\$17,976,329	(\$1,614,839)	\$19,591,168
<u>Demand-Billed</u>	<u>\$1,815,300</u>	<u>\$0</u>	<u>\$1,815,300</u>
Total	\$51,653,006	(\$3,772,919)	\$55,425,924

<u>Class</u>	<u>Actual Demand Over/(Under)</u>	<u>Monthly Demand Recovery</u>	<u>Demand Recovery Absent Monthly True-up</u>
Residential	\$2,245,600	(\$2,158,080)	\$4,403,680
Commercial	\$809,112	(\$1,614,839)	\$2,423,950
<u>Demand-Billed</u>	<u>\$43,749</u>	<u>\$0</u>	<u>\$43,749</u>
Total	\$3,098,460	(\$3,772,919)	\$6,871,379

*Due to the use of MN Company forecast sales instead of MN only sales to allocate the PGA annual sales to monthly, the demand cost over-recovery credit to customers was \$876,013 more than the \$2,896,906 actual over-recovery for this period.

The goal of the Monthly Demand True-up Mechanism is for the "Actual Demand Over(Under)" to be closer to zero than the "Demand Over(Under) Absent Monthly True-up."

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> \$6.50 + (a * b)	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> a * d	<u>True-up % of</u> <u>Bill</u> abs(e / c)
July-04	18	\$0.794250	\$20.55			
August-04	21	\$0.785850	\$23.27			
September-04	24	\$0.750100	\$24.63			
October-04	57	\$0.761050	\$49.53	(\$0.00366)	(\$0.21)	0.42%
November-04	95	\$1.052420	\$106.79	\$0.00199	\$0.19	0.18%
December-04	159	\$1.028790	\$170.23	\$0.00182	\$0.29	0.17%
January-05	189	\$0.945770	\$184.98	\$0.01407	\$2.66	1.44%
February-05	130	\$0.949410	\$130.10	\$0.01512	\$1.97	1.51%
March-05	125	\$0.935790	\$123.31	\$0.00173	\$0.22	0.18%
April-05	53	\$0.946540	\$57.00	\$0.01789	\$0.95	1.67%
May-05	39	\$0.930920	\$42.48	(\$0.00367)	(\$0.14)	0.33%
June-05	18	\$0.845770	\$21.68			
Annual - July-04 to June-05			\$954.55		\$5.92	0.62%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u>	<u>Total</u>		<u>Monthly Demand</u>	<u>Rate Adder</u>	
	<u>Typical</u>	<u>Distribution</u>		<u>True-up Rate</u>	<u>Effect on a</u>	<u>True-up % of</u>
	<u>Customer</u>	<u>Rate Charged</u>	<u>Total Typical</u>	<u>Adder (\$/therm)</u>	<u>Typical Bill</u>	<u>Bill</u>
	<u>(therms)</u>	<u>(\$/therm)</u>	<u>Bill</u>			
		Jul.-Nov.	$\$6.50 + (a * b)$		a * d	$\text{abs}(e / c)$
		Dec.-Jun.	$\$8.00 + (a * b)$			
July-05	20	\$0.910390	\$24.70			
August-05	19	\$0.933830	\$24.03			
September-05	24	\$1.144620	\$33.57			
October-05	49	\$1.333800	\$71.84	(\$0.00325)	(\$0.16)	0.22%
November-05	97	\$1.417080	\$144.12	\$0.00056	\$0.05	0.04%
December-05	168	\$1.284600	\$223.73	\$0.00289	\$0.49	0.22%
January-06	127	\$1.281290	\$170.56	\$0.01205	\$1.53	0.90%
February-06	144	\$1.167380	\$176.16	\$0.01096	\$1.58	0.90%
March-06	108	\$1.114720	\$128.78	\$0.01187	\$1.29	1.00%
April-06	45	\$0.858470	\$46.97	(\$0.00666)	(\$0.30)	0.64%
May-06	29	\$0.907250	\$34.63	\$0.01569	\$0.46	1.33%
June-06	20	\$0.796570	\$23.77			
Annual - July-05 to June-06			\$1,102.86		\$4.93	0.45%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$8.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-06	19	\$0.810200	\$23.48			
August-06	17	\$0.891290	\$23.28			
September-06	27	\$0.941710	\$33.37			
October-06	65	\$0.638630	\$49.35	\$0.00382	\$0.25	0.50%
November-06	94	\$1.013440	\$103.45	\$0.00024	\$0.02	0.02%
December-06	116	\$1.079210	\$132.74	(\$0.00401)	(\$0.46)	0.35%
January-07	165	\$0.974460	\$168.50	\$0.01174	\$1.93	1.15%
February-07	164	\$1.014590	\$174.51	\$0.01200	\$1.97	1.13%
March-07	101	\$1.050870	\$114.10	\$0.01200	\$1.21	1.06%
April-07	70	\$0.911960	\$71.69	\$0.01632	\$1.14	1.59%
May-07	21	\$0.989190	\$28.73	\$0.01632	\$0.34	1.19%
June-07	19	\$0.990460	\$26.63			
Annual - July-06 to June-07			\$949.84		\$6.40	0.67%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$8.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-07	19	\$0.895460	\$24.71			
August-07	18	\$0.803860	\$22.33			
September-07	15	\$0.722000	\$19.03			
October-07	43	\$0.777670	\$41.18	(\$0.01310)	(\$0.56)	1.36%
November-07	96	\$0.934490	\$97.32	(\$0.00031)	(\$0.03)	0.03%
December-07	166	\$0.994200	\$172.62	\$0.00260	\$0.43	0.25%
January-08	178	\$0.974290	\$181.11	\$0.00425	\$0.76	0.42%
February-08	162	\$1.031510	\$174.71	(\$0.00411)	(\$0.66)	0.38%
March-08	127	\$1.142070	\$153.11	(\$0.00555)	(\$0.71)	0.46%
April-08	69	\$1.091800	\$83.84	(\$0.00901)	(\$0.63)	0.75%
May-08	37	\$1.265870	\$55.34	(\$0.00893)	(\$0.33)	0.60%
June-08	23	\$1.271190	\$37.06			
Annual - July-07 to June-08			\$1,062.35		(\$1.73)	0.16%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$8.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-08	18	\$1.393780	\$33.03			
August-08	16	\$1.011110	\$24.60			
September-08	21	\$0.951970	\$28.33			
October-08	46	\$0.760390	\$43.09	\$0.00007	\$0.00	0.01%
November-08	100	\$0.917020	\$99.55	(\$0.00025)	(\$0.02)	0.03%
December-08	178	\$1.001941	\$186.00	\$0.00090	\$0.16	0.09%
January-09	196	\$1.008441	\$206.15	(\$0.00038)	(\$0.07)	0.04%
February-09	138	\$0.844551	\$124.77	(\$0.00556)	(\$0.77)	0.62%
March-09	106	\$0.777081	\$90.42	(\$0.00556)	(\$0.59)	0.65%
April-09	64	\$0.655741	\$49.94	(\$0.00897)	(\$0.57)	1.15%
May-09	24	\$0.611481	\$22.46	(\$0.00897)	(\$0.21)	0.94%
June-09	23	\$0.538671	\$20.18			
Annual - July-08 to June-09			\$928.52		(\$2.08)	0.22%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$8.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-09	18	\$0.576321	\$18.14			
August-09	18	\$0.570611	\$18.42			
September-09	20	\$0.489691	\$17.67			
October-09	63	\$0.620868	\$47.30	(\$0.00241)	(\$0.15)	0.32%
November-09	84	\$0.782578	\$74.09	\$0.00102	\$0.09	0.12%
December-09	148	\$0.755838	\$120.20	(\$0.00373)	(\$0.55)	0.46%
January-10	182	\$0.827038	\$158.21	\$0.00799	\$1.45	0.92%
February-10	136	\$0.804638	\$117.10	\$0.00249	\$0.34	0.29%
March-10	90	\$0.722258	\$72.92	(\$0.00799)	(\$0.72)	0.98%
April-10	33	\$0.658348	\$29.40	\$0.00614	\$0.20	0.68%
May-10	29	\$0.673453	\$27.74	\$0.01097	\$0.32	1.16%
June-10	18	\$0.651943	\$19.51			
Annual - July-09 to June-10			\$720.69		\$0.97	0.13%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c) W	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u>	<u>True-up % of</u> <u>Bill</u>
		Jul.-Apr. May-Jun.	\$8.00 + (a * b) \$9.00 + (a * b)		a * d	abs(e / c)
July-10	17	\$0.708363	\$20.28			
August-10	17	\$0.694963	\$19.61			
September-10	23	\$0.601693	\$21.80			
October-10	39	\$0.626126	\$32.65	(\$0.00232)	(\$0.09)	0.28%
November-10	95	\$0.717686	\$76.27	\$0.00010	\$0.01	0.01%
December-10	157	\$0.796304	\$133.00	\$0.00164	\$0.26	0.19%
January-11	177	\$0.778754	\$146.13	\$0.00113	\$0.20	0.14%
February-11	137	\$0.784654	\$115.81	(\$0.00321)	(\$0.44)	0.38%
March-11	127	\$0.768144	\$105.22	(\$0.00742)	(\$0.94)	0.89%
April-11	60	\$0.706324	\$50.03	\$0.00314	\$0.19	0.37%
May-11	39	\$0.694017	\$36.36	(\$0.01171)	(\$0.46)	1.27%
June-11	22	\$0.705717	\$24.54			
Annual - July-10 to June-11			\$781.70		(\$1.28)	0.16%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$9.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-11	16	\$0.706837	\$20.38			
August-11	15	\$0.713437	\$19.67			
September-11	22	\$0.666957	\$23.96			
October-11	40	\$0.661267	\$35.55	(\$0.00001)	(\$0.00)	0.00%
November-11	86	\$0.742977	\$73.02	\$0.00022	\$0.02	0.03%
December-11	120	\$0.747625	\$98.47	\$0.00231	\$0.28	0.28%
January-12	142	\$0.716627	\$110.42	\$0.00875	\$1.24	1.12%
February-12	124	\$0.699057	\$95.37	\$0.00970	\$1.20	1.26%
March-12	62	\$0.698127	\$52.32	\$0.00970	\$0.60	1.15%
April-12	52	\$0.543377	\$37.44	\$0.01234	\$0.65	1.73%
May-12	24	\$0.471617	\$20.21	\$0.01233	\$0.29	1.45%
June-12	15	\$0.513527	\$16.83			
Annual - July-11 to June-12			\$603.63		\$4.27	0.71%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$9.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-12	15	\$0.528467	\$16.98			
August-12	16	\$0.567204	\$17.91			
September-12	21	\$0.542824	\$20.45			
October-12	50	\$0.578734	\$38.17	\$0.00039	\$0.02	0.05%
November-12	90	\$0.699164	\$71.62	\$0.00185	\$0.17	0.23%
December-12	134	\$0.702684	\$102.86	(\$0.00134)	(\$0.18)	0.17%
January-13	164	\$0.663814	\$117.54	\$0.00118	\$0.19	0.16%
February-13	139	\$0.669754	\$102.08	\$0.00883	\$1.23	1.20%
March-13	128	\$0.671264	\$95.18	\$0.00323	\$0.41	0.44%
April-13	82	\$0.664814	\$63.20	(\$0.00699)	(\$0.57)	0.90%
May-13	43	\$0.681314	\$38.23	(\$0.01228)	(\$0.53)	1.38%
June-13	27	\$0.686824	\$27.57			
Annual - July-12 to June-13			\$711.79		\$0.74	0.10%

*includes base distribution rate, riders (CIP, SEP, Affordability), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$9.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-13	15	\$0.654635	\$18.90			
August-13	16	\$0.645655	\$19.50			
September-13	19	\$0.619095	\$20.48			
October-13	50	\$0.616845	\$39.69	(\$0.00409)	(\$0.20)	0.51%
November-13	101	\$0.698398	\$79.49	\$0.00016	\$0.02	0.02%
December-13	172	\$0.702508	\$129.64	(\$0.00122)	(\$0.21)	0.16%
January-14	191	\$0.754268	\$153.25	(\$0.00477)	(\$0.91)	0.60%
February-14	172	\$0.842048	\$153.59	(\$0.00885)	(\$1.52)	0.99%
March-14	136	\$1.030368	\$149.02	(\$0.00885)	(\$1.20)	0.81%
April-14	78	\$0.725708	\$65.25	(\$0.01172)	(\$0.91)	1.39%
May-14	45	\$0.726268	\$41.98	(\$0.01177)	(\$0.53)	1.27%
June-14	24	\$0.714578	\$26.42			
Annual - July-13 to June-14			\$897.21		(\$5.47)	0.61%

*includes base distribution rate, riders (CIP, SEP, Affordability, GUIC), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u>	<u>Total</u>		<u>Monthly Demand</u>	<u>Rate Adder</u>	
	<u>Typical</u>	<u>Distribution</u>	<u>Total Typical</u>	<u>True-up Rate</u>	<u>Effect on a</u>	<u>True-up % of</u>
	<u>Customer</u>	<u>Rate Charged</u>	<u>Bill</u>	<u>Adder (\$/therm)</u>	<u>Typical Bill</u>	<u>Bill</u>
	<u>(therms)</u>	<u>(\$/therm)</u>	<u>\$9.00 + (a * b)</u>		<u>a * d</u>	<u>abs(e / c)</u>
July-14	16	\$0.726150	\$20.74			
August-14	16	\$0.648620	\$19.60			
September-14	21	\$0.730920	\$24.02			
October-14	49	\$0.729870	\$44.74	(\$0.00315)	(\$0.15)	0.34%
November-14	122	\$0.796070	\$106.52	\$0.00004	\$0.00	0.00%
December-14	136	\$0.873360	\$127.35	(\$0.00056)	(\$0.08)	0.06%
January-15	158	\$0.762793	\$129.54	(\$0.00936)	(\$1.48)	1.14%
February-15	173	\$0.777374	\$143.12	\$0.00155	\$0.27	0.19%
March-15	103	\$0.775654	\$88.90	(\$0.00766)	(\$0.79)	0.89%
April-15	55	\$0.620944	\$43.22	(\$0.01259)	(\$0.69)	1.61%
May-15	26	\$0.624624	\$24.97	\$0.01259	\$0.32	1.29%
June-15	16	\$0.648394	\$19.20			
Annual - July-14 to June-15			\$791.94		(\$2.60)	0.33%

*includes base distribution rate, riders (CIP, SEP, Affordability, GUIC), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$9.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-15	16	\$0.643314	\$19.04			
August-15	16	\$0.653734	\$19.31			
September-15	19	\$0.573314	\$19.90			
October-15	39	\$0.581811	\$31.60	\$0.00121	\$0.05	0.15%
November-15	76	\$0.613171	\$55.61	\$0.00117	\$0.09	0.16%
December-15	116	\$0.620127	\$81.05	\$0.00338	\$0.39	0.48%
January-16	160	\$0.633637	\$110.13	\$0.00858	\$1.37	1.24%
February-16	130	\$0.628757	\$90.77	\$0.00857	\$1.11	1.23%
March-16	88	\$0.583907	\$60.62	\$0.00857	\$0.76	1.25%
April-16	60	\$0.503667	\$39.09	\$0.01192	\$0.71	1.82%
May-16	24	\$0.514497	\$21.29	\$0.01192	\$0.28	1.34%
June-16	18	\$0.500687	\$17.81			
Annual - July-15 to June-16			\$566.21		\$4.77	0.84%

*includes base distribution rate, riders (CIP, SEP, Affordability, GUIC), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$9.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-16	15	\$0.582071	\$17.75			
August-16	15	\$0.568821	\$17.66			
September-16	18	\$0.560452	\$19.18			
October-16	38	\$0.576416	\$31.00	\$0.00042	\$0.02	0.05%
November-16	69	\$0.618096	\$51.80	\$0.00132	\$0.09	0.18%
December-16	145	\$0.647466	\$102.71	\$0.00280	\$0.41	0.39%
January-17	167	\$0.701186	\$126.07	\$0.00883	\$1.47	1.17%
February-17	105	\$0.653526	\$77.85	(\$0.00293)	(\$0.31)	0.40%
March-17	109	\$0.621026	\$76.39	\$0.00437	\$0.47	0.62%
April-17	50	\$0.582116	\$38.18	\$0.01194	\$0.60	1.57%
May-17	30	\$0.553986	\$25.68	\$0.00264	\$0.08	0.31%
June-17	19	\$0.571706	\$20.05			
Annual - July-16 to June-17			\$604.31		\$2.83	0.47%

*includes base distribution rate, riders (CIP, SEP, Affordability, GUIC), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$9.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-17	15	\$0.555646	\$17.41			
August-17	16	\$0.550686	\$17.81			
September-17	19	\$0.550786	\$19.66			
October-17	41	\$0.545996	\$31.51	(\$0.00075)	(\$0.03)	0.10%
November-17	102	\$0.612010	\$71.41	\$0.00035	\$0.04	0.05%
December-17	155	\$0.640900	\$108.16	\$0.00125	\$0.19	0.18%
January-18	174	\$0.622760	\$117.19	(\$0.00659)	(\$1.14)	0.98%
February-18	153	\$0.658280	\$109.47	(\$0.00946)	(\$1.44)	1.32%
March-18	115	\$0.612212	\$79.32	(\$0.00946)	(\$1.09)	1.37%
April-18	88	\$0.526782	\$55.38	(\$0.01260)	(\$1.11)	2.00%
May-18	23	\$0.531862	\$21.27	(\$0.01260)	(\$0.29)	1.37%
June-18	18	\$0.567732	\$19.05			
Annual - July-17 to June-18			\$667.65		(\$4.88)	0.73%

*includes base distribution rate, riders (CIP, SEP, Affordability, GUIC), base cost of gas, Monthly Demand True-up, and PGA

	(a)	(b)*	(c)	(d)	(e)	
	<u>Usage for a</u> <u>Typical</u> <u>Customer</u> <u>(therms)</u>	<u>Total</u> <u>Distribution</u> <u>Rate Charged</u> <u>(\$/therm)</u>	<u>Total Typical</u> <u>Bill</u> <u>\$9.00 + (a * b)</u>	<u>Monthly Demand</u> <u>True-up Rate</u> <u>Adder (\$/therm)</u>	<u>Rate Adder</u> <u>Effect on a</u> <u>Typical Bill</u> <u>a * d</u>	<u>True-up % of</u> <u>Bill</u> <u>abs(e / c)</u>
July-18	15	\$0.573492	\$17.53			
August-18	16	\$0.568402	\$18.02			
September-18	19	\$0.564152	\$19.90			
October-18	59	\$0.571022	\$42.69	(\$0.00293)	(\$0.17)	0.40%
November-18	122	\$0.680789	\$92.16	(\$0.00013)	(\$0.02)	0.02%
December-18	138	\$0.756779	\$113.71	(\$0.00527)	(\$0.73)	0.64%
January-19	186	\$0.683557	\$135.94	(\$0.00995)	(\$1.85)	1.36%
February-19	158	\$0.645647	\$110.72	\$0.00179	\$0.28	0.25%
March-19	128	\$0.622767	\$88.82	(\$0.00995)	(\$1.28)	1.44%
April-19	66	\$0.512067	\$42.72	(\$0.01215)	(\$0.80)	1.87%
May-19	40	\$0.488657	\$28.62	(\$0.01224)	(\$0.49)	1.72%
June-19	20	\$0.486980	\$18.76			
Annual - July-18 to June-19			\$729.60		(\$5.05)	0.69%

*includes base distribution rate, riders (CIP, SEP, Affordability, GUIC), base cost of gas, Monthly Demand True-up, and PGA

CERTIFICATE OF SERVICE

I, Lynnette Sweet, hereby certify that I have this day served copies or summaries of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States Mail at Minneapolis, Minnesota

xx electronic filing

Xcel Energy's Miscellaneous Gas Service List

Dated this 14th day of February 2020

/s/

Lynnette Sweet
Regulatory Administrator

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Christopher	Anderson	canderson@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd. St. Louis, MO 63119-2044	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
George	Crocker	gwillc@nawo.org	North American Water Office	PO Box 174 Lake Elmo, MN 55042	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St Saint Paul, MN 55102-2617	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Todd J.	Guerrero	todd.guerrero@kutakrock.com	Kutak Rock LLP	Suite 1750 220 South Sixth Street Minneapolis, MN 554021425	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Annete	Henkel	mui@mnuilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Michael	Hoppe	il23@mtn.org	Local Union 23, I.B.E.W.	932 Payne Avenue St. Paul, MN 55130	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Linda	Jensen	linda.s.jensen@ag.state.mn.us	Office of the Attorney General-DOC	1800 BRM Tower 445 Minnesota Street St. Paul, MN 551012134	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Michael	Krikava	mkrikava@taftlaw.com	TAFT Stettinius & Hollister, LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Eric	Lipman	eric.lipman@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas

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