



414 Nicollet Mall
Minneapolis, Minnesota 55401

March 1, 2019

—VIA ELECTRONIC FILING—

Daniel P. Wolf
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, Minnesota 55101

RE: PETITION AND COMPLIANCE FILING
STATE ENERGY POLICY RIDER
DOCKET NO. G002/M-19-_____

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Petition for approval of an updated natural gas State Energy Policy (SEP) Rider rate factor and the annual SEP compliance filing.

Pursuant to Minn. Stat. § 216.17, subd. 3, we have electronically filed this document, and served copies on the parties on the attached service lists.

If you have any questions regarding this filing please contact Rebecca Eilers at rebecca.d.eilers@xcelenergy.com or (612) 330-5570, or me at (612) 330-7681 or lisa.r.peterson@xcelenergy.com.

Sincerely,

/s/

LISA R. PETERSON
MANAGER, REGULATORY ANALYSIS

Enclosures

c: Service List

**STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION**

Dan Lipschultz
Matthew Schuerger
Katie Sieben
John Tuma

Commissioner
Commissioner
Commissioner
Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF A MODIFICATION
TO OUR NATURAL GAS SEP TARIFF,
UPDATED SEP RATE FACTOR, AND
SEP COMPLIANCE FILING

DOCKET NO. G002/M-19-____

**PETITION AND
COMPLIANCE FILING**

OVERVIEW

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission Petition requesting approval of an updated natural gas State Energy Policy (SEP) Rider rate factor, our Annual SEP compliance filing, and our proposed customer notice and tariff update.

We submit this report pursuant to the Commission's April 6, 2004 Order Docket No. E,G002/M-03-1544, which established the SEP Rider and requires the Company to submit an annual SEP compliance report on March 1 of each year. The Commission's more recent August 24, 2017 Order in Docket No. G002/M-17-174 reiterated the requirement to file an annual SEP compliance report on March 1.

We propose to update the natural gas SEP rate factor by decreasing it to \$0.001287 per therm for the recovery of approximately \$1.3 million net revenue requirements for the 12-month period of July 2018 – June 2019. If approved as proposed, average natural gas residential customers using 72.68 therms per month would pay approximately \$1.12 per year, compared to \$1.37 under the current rate.

We submit this filing in accordance with the following statutory and rule provisions:

- Minn. Stat. § 216B.16, Subd. 1 (Rate Change Notice)
- Minn. Stat. § 216B.62, Subd. 3b. (Assessment for Department Regional and National Duties)
- Minn. R. 7829.1300 (Miscellaneous Tariff Filings)

- Minn. R. 7829.0100 (Definitions)

I. SUMMARY OF FILING

Pursuant to Minn. R. 7829.1300, subp. 1, a one-paragraph summary of the filing accompanies this Petition.

II. SERVICE ON OTHER PARTIES

Pursuant to Minn. R. 7829.1300, subp. 2, Xcel Energy has served a summary of the filing on all parties on the Xcel Energy miscellaneous natural gas service list and the service list from our 2018 SEP Rider filing.¹

III. GENERAL FILING INFORMATION

Pursuant to Minn. R. 7829.1300, subp. 3, the Company provides the following 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. Aschman
Senior Attorney
Xcel Energy Services Inc.
414 Nicollet Mall, 401 - 8th Floor
Minneapolis, MN 55401
(612) 215-4605

C. Date of Filing and Proposed Effective Date of Rates

The date of this filing is March 1, 2019. The Company proposes the updated natural gas SEP rate factor be included in the Resource Adjustment line on the Company's retail natural gas billing rates effective July 1, 2019, after the conclusion of the July 1,

¹ Docket No. G002/M-18-184

2018-June 30, 2019 SEP test period in compliance with Order Point No. 4 of the Commission's December 21, 2018 Order in Docket No. G002/M-18-184.

D. Statutes Controlling Schedule for Processing the Filing

This compliance report 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. Pursuant to Minn. R. 7829.1400, initial comments on a miscellaneous filing are due within 30 days of filing, with replies due 10 days thereafter.

E. Utility Employee Responsible for Filing

Lisa R. Peterson
Manager, Regulatory Analysis
Xcel Energy Services Inc.
414 Nicollet Mall, 401 - 7th Floor
Minneapolis, Minnesota 55401
(612) 330-7681

IV. MISCELLANEOUS INFORMATION

Pursuant to Minn. R. 7829.0700, subp. 2, 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, Minnesota 55401
mara.k.ascheman@xcelenergy.com

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

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

V. DESCRIPTION AND PURPOSE OF FILING

A. Background

The Commission first established the SEP Rider mechanism and approved recovery of eligible expenses in its April 6, 2004 Order in Docket No. E,G002/M-03-1544. Since that time, electric SEP expenses have moved into base rates. There are two

types of natural gas-related expenses currently authorized for recovery in the SEP Rider per Minnesota statutes and Commission Orders: Assessment for Department Regional and National Duties (ADRND) and Cast Iron Pipe Replacement Project expenses (also referred to as Greenhouse Gas Infrastructure costs). These two expense types are discussed in detail below. As described in more detail below, the Cast Iron Pipe Replacement Project expenses relate to a capital project that was completed several years ago. Accordingly, no new costs (only the continued recovery of the revenue requirements for the existing project and modest costs related to ADRND) are proposed to be recovered through the SEP Rider, per the Commission's August 24, 2017 Order in Docket No. G002/M-17-174.

The Commission's August 24, 2017 Order requires the Company's annual March 1 compliance filing to contain:

- the actual and forecasted information needed to determine any true-up amount to be recovered from or returned to ratepayers as a result of the operation of the SEP rider;
- amounts anticipated to be incurred and including any true-up amounts for the operation of the SEP rider during the current year; and
- a comparison between actual and budgeted monthly costs in its future SEP rider filings, including a discussion of reasons for deviations from budgeted amounts (both higher and lower).

The following attachments meet the specified requirements:

Attachment	Description
Attachment A1	Proposed revision to the tariff sheet.
Attachment A2	Our SEP projected net revenue requirements for the 12 month period July 2018 through June 2019 and rate factor applicable to all natural gas customers, including demand billed Commercial and Industrial customers under this rider.
Attachment B	SEP Tracker
Attachment C	A comparison by month for the past twelve months of actual natural gas revenue requirements and revenue collections versus forecasted revenue requirements and revenue collections.
Attachment D1	Detailed Assessment for Department Regional and National Duties expenses.
Attachment D2	Detailed Cast Iron Replacement Project revenue requirements.
Attachment D3	Cast Iron Replacement Project O&M credit.
Attachment D4	Revenue collections (Actual and Forecast).
Attachment E	Base assumptions used to calculate the cast iron pipe revenue requirements.
Attachment F	Bridge Schedule from our most recent natural gas rate case, reflecting the 2010 test year, as filed.
Attachment G	Description of revenue requirements categories.
Attachment H	Summary report to the EPA on Greenhouse Gas Emissions

B. SEP Eligible Expenses

The Commission's August 24, 2017 Order allowed the Company to continue to recover two types of expenses through the natural gas SEP Rider: Assessment for Department Regional and National Duties and Cast Iron Pipe Replacement Project expenses. These expense types are discussed below.

1. Assessment for Department Regional and National Duties (ADRND)

ADRND costs are related to the expenses incurred by the Minnesota Department of Commerce, Division of Energy Resources, for services to the Commission and the public on reliability issues and other proceedings, analyses, or projects.

The April 6, 2004 Order approved recovery of Reliability Administrator (RA) expenses through the SEP Rider. The original statute authorizing the Reliability Administrator (Minn. Stat. § 216C.052, Subd. 2) was repealed by 2011 Minn. Laws Ch. 97 § 34. In the same legislative session, Minn. Stat. § 216B.62, Subd. 3b. was passed, authorizing the ADRND through June 30, 2015. The 2017 legislative session extended the ADRND through June 30, 2018. The tracker shown in Attachment D1 includes the final true-up of costs incurred prior to the June 30, 2018 extension of the ADRND. We do not forecast any ADRND costs after the expiration date of the statute.

2. Cast Iron Pipe Replacement Project

The Commission first approved recovery of the Cast Iron Pipe Replacement Project costs through the SEP Rider under Minn. Stat. § 216B.1637 (Recovery of Certain Greenhouse Gas Infrastructure Costs) in its November 25, 2008 Order in Docket No. E,G002/M-08-261. After all of the Cast Iron Pipe Replacement Project costs were incurred, approved for rider recovery, and placed in-service, this statute was repealed. Currently the SEP Rider is recovering the revenue requirements for project constructed and costs incurred before the statute was repealed in July 2013. Since the project is no longer incurring new costs, we anticipate proposing the remaining depreciation expenses for the project be moved into base rates at the time the Company next files a natural gas rate case.

The November 25, 2008 Order required that we credit through the SEP Rider any proceeds received from the sale of carbon offsets or credits associated with the cast iron replacement program. To date we have made no such sales.

VI. 2018-2019 SEP REVENUE REQUIREMENTS AND PROPOSED RATE FACTOR

Order Point No. 4 of the Commission's December 21, 2018 Order in Docket No. G002/M-18-184 requires the Company to file future SEP Rider filings using a historical test period. However, the SEP Rider is unique because nearly all of the costs relate to a completed capital project, and therefore the revenue requirement decreases annually as the project continues to depreciate. As a result, we have calculated the updated natural gas SEP rate factor based on the July 1, 2018-June 30, 2019 test period, and request that the updated rate factor not be effective until July 1, 2019 once the test period is complete. The net revenue requirement also includes the projected over-collected tracker balance as of June 2019. The Company's proposal decreases the SEP rate factor as compared to the currently approved SEP rate factor.

We provide an overview of the 2018-2019 SEP Period revenue requirement calculations below. Attachment G provides additional description of the SEP Rider revenue requirement categories that comprise the revenue requirements.

A. Natural Gas SEP Rider Tracker Balance

Our proposed updated natural gas SEP rate factor compared to the current rate factor approved in Docket No. G002/M-18-184 is as follows:

Table 1		
Proposed Rate Factor		
Gas	2017-2018 Approved	2018-2019 Proposed
Revenue Requirement	\$1,567,571	\$1,420,542
Test Year Under/(Over) Collection		<u>(\$118,742)</u>
Net Revenue Requirement	<u>\$1,567,571</u>	<u>\$1,301,800</u>
Rate/Therm	\$0.001576	\$0.001287

If approved as proposed, an average natural gas residential customer using 72.68 therms per month² would pay approximately \$1.12 per year, compared to \$1.37 currently, based on July 2019-June 2020 forecasted sales and customer counts. We discuss the specific inputs to the natural gas rate factor calculations below.

A summary of 2019 SEP forecasted costs proposed for recovery and the calculation of our proposed natural gas SEP rate factor compared to the current rate are follows:

² 872 therms per year

Table 2			
SEP Costs and Rate Factor			
Gas	2017-2018 Approved	2018-2019 Proposed*	Difference
ADRND	\$27,030	\$7,089	\$(19,941)
Cast Iron	\$1,567,571	\$1,450,900	\$(116,671)
Cast Iron O&M Credit	\$(72,310)	\$(72,310)	-
Prior Year Carryover	\$8,483	\$34,863	\$26,380
Test Year Carryover		<u>\$(118,742)</u>	<u>\$(118,742)</u>
Revenue Requirement	\$1,530,774	\$1,301,800	\$(228,974)
Therm Sales*	971,043,548	1,011,582,014	40,538,466
Factor	\$0.001576	\$0.001287	\$(0.000029)

*The Sales Forecast information in Table 2 is annualized to provide a comparison of our projected factor and our approved factor.

**The 2018-2019 Forecast amount includes 6 months of actuals and 6 months of forecast.

The monthly breakdown of our natural gas SEP Rider costs, sales, projected revenues, and anticipated Tracker balance is provided in Attachment B.³ In addition, we provide the projected revenue collections based on the gas sales forecast as Attachment D4 to this filing.⁴ These attachments provide period transactions, as well as beginning and ending Tracker balances, as specified in the Commission's September 23, 2010 Order in Docket No. E,G002/M-10-210.

We provide as Attachment F to this filing, the Bridge Schedule from our most recent natural gas rate case, reflecting the 2010 test year. Please refer to Attachment F, column (5), page 1 of 3, which shows that the SEP rate base was removed from the test year rate base; Attachment F, column (5), page 2 of 3, shows that the SEP revenues and expenses were removed from the test year operating income. The costs and revenues included in the natural gas SEP rider revenue requirements are not included for recovery under any other tariff rate or base rate.

For a breakdown of the actual ADRND costs, please see Attachment D1.

B. Natural Gas Cast Iron Pipe Replacement Project

We completed the Cast Iron Pipe Replacement Project in 2012, replacing 25 miles of cast iron pipe, though revenue requirements continue until the capitalized costs are fully depreciated. No additional cast iron renewal is planned. The June 3, 2013 Order in Docket No. E002/M-13-161 discontinued reporting requirements associated with specific cast iron replacement projects.

³ Includes interdepartmental sales.

⁴ Summer 2018 sales forecast.

The Minnesota jurisdictional total revenue requirements associated with this project for the 2018-2019 SEP Period is approximately \$1.5 million. See Attachment D2 for the detailed calculation of the cast iron revenue requirements. Attachment E shows the base assumptions used to calculate the cast iron pipe revenue requirements.

C. O&M Credit Calculation

The September 23, 2010 Order requires that we adjust our O&M credit in this filing to reflect the outcome of our natural gas rate case in Docket No. G002/GR-09-1153.

We provide the calculation of the O&M credit calculation as Attachment D3 to this filing. Consistent with our 2012 filing and subsequent filings, we have credited the overall O&M level to reflect the portion of cast iron pipe replaced through the 2010 test year as that amount is reflected in base rates.

D. Rate of Return

Ordering Point No. 5 of the August 24, 2017 Order requires the Company to use the capital structure authorized in the Company's 2013 electric rate case (Docket No. E002/GR-13-868) to calculate the revenue requirement. Attachment E – Base Assumptions – shows the 2017 and 2018 capital structure as approved in the 2013 electric rate case. We have used this capital structure to calculate the revenue requirements for the 2018-2019 SEP Period. We note that the table at the bottom of page 5 of the August 24, 2017 Order misstates the long-term debt approved in the 2013 rate case. We have used 45.61 percent as approved in the rate case instead of the 45.01 percent shown on the table in the Order, in compliance with Ordering Point No. 5.

Ordering Point No. 5 also requires that the Company use a 9.04 percent Return on Equity (ROE) to calculate the SEP revenue requirement, which is the ROE recommended by the Department in the Company's Gas Utility Infrastructure Cost (GUIC) Rider in Docket No. G002/M-16-891 and later approved in the Commission's February 8, 2018 Order. We have used the 9.04 ROE to calculate the SEP Rider revenue requirements for the 2018-2019 SEP Period. See Attachment E.

Beginning with January 2018, the 21 percent federal tax rate was incorporated into all SEP Rider revenue requirement calculations.

E. Accumulated Deferred Income Taxes (ADIT)

Order Point No. 3 of the August 24, 2017 Order states that the Company shall not prorate its ADIT in the SEP Rider. As the Company discussed in our last SEP Rider Petition, whenever a given rate is set, the months prior to that date can be treated as actuals, without proration.⁵ Since we propose to implement a new rate factor July 1, 2019 after the test period ends on June 30, 2019, the revenue requirement calculation excludes proration for the 2018-2019 SEP Period months.

F. Proposed Tariff and Customer Notice

Our proposed SEP Rider tariff provides that the SEP rate factor be included on each natural gas customer's monthly bill effective July 1, 2019, which is done as part of the Resource Adjustment charge on monthly bill statements.

We provide as Attachment A1 to this filing proposed changes to our Natural Gas Rate Book, Section No. 5, 16th Revised Sheet No. 63 in both redline and clean versions.

We will submit a compliance filing in this docket containing the final updated natural gas SEP rate factor calculations and corresponding tariff pages within 10 days of receiving the Commission's Order approving this Petition.

We propose to implement the following bill message, effective the first month the updated natural gas SEP rate factor takes effect, notifying customers of the change in their monthly bills:

We have updated the Resource Adjustment line item on your bill to reflect changes in the State Energy Policy (SEP) portion of the Resource Adjustment, which recovers costs for cast iron pipe replacement and to support State energy efficiency and conservation policy. The natural gas SEP portion of the Resource Adjustment decreased to \$0.001287 per therm.

In compliance with Ordering Point No. 10 of the August 24, 2017 Order, the proposed customer notice reflects the customer notice approved in the last SEP proceeding, Docket No. G002/M-18-184.⁶ We will work with Commission Staff regarding this proposed customer notice in advance of implementation.

⁵ See the Company's March 1, 2018 Petition in Docket No. G002/M-18-184 and the referenced IRS Private Letter Ruling (PLR) #201717008.

⁶ The Commission did not take specific action on the customer notice language in the December 21, 2018 order, therefore the customer notice was implemented as proposed, updating only the final rate approved.

VII. SEP COMPLIANCE INFORMATION AND TRUE-UP

A. Tracker Balance Adjustments

The estimated over-recovered amount in the 2018-2019 SEP Tracker is \$118,742. This estimate is based on the actual revenue collections through December 2018 and forecasted revenue collections (forecasted sales times current factor) for January through June 2019. To calculate the proposed rate factor, we reduced the 2018-2019 SEP Period revenue requirements by this projected over-collection.

Please see Attachment B for the supporting calculations.

B. Budget Deviations

The August 24, 2017 Order requires that we provide a comparison between actual and budgeted monthly costs, including a discussion of reasons for deviations from budgeted amounts (both higher and lower). See Attachment C for the comparison by month for the past twelve months (January 2018 – December 2018) of actual natural gas costs (revenue requirements) to the budgeted (forecast) costs excluding carryover balances. Specific deviations are explained below.

Two main factors contributed to the differences between the 2018 monthly actuals and budgeted natural gas costs. First, the ADRND costs were \$18,672 lower than forecasted due to the 2018 forecast including estimated quarterly payments based on historical trends, while actual billing only occurred in March and December, and thus understated the costs assessed for 2018 relative to the budget. Second, cast iron pipe replacement costs were \$5,169 less than forecasted due primarily to lower property tax rates compared to the forecasted rates. In summary, total actual costs for the past twelve months were \$23,841 lower than forecasted:

Table 3	
Budget Deviations for Past 12 Months	
ADRND	\$(18,672)
Cast Iron	<u>\$(5,169)</u>
Net variance	\$(23,841)

In this same twelve-month period, revenue collections were \$139,003 higher than forecasted. Higher actuals sales levels across all classes during the twelve-month period contributed to the increased revenue collection.

VIII. CARBON OFFSETS

Order Point No. 1.B of the November 25, 2008 Order requires the Company to report and credit the SEP Tracker with any proceeds received from the sale of carbon offsets or credits associated with the Cast Iron Pipe Replacement project.

We have not sold any carbon offsets or credits for greenhouse gas emissions associated with the natural gas project under the SEP Rider to-date. As a result, there are no carbon offsets and/or credits to report, nor are there proceeds to credit to the SEP Rider tracker account.

In 2012, we began to report annually to the U.S. Environmental Protection Agency (EPA) on greenhouse gas emissions for all types of natural gas pipe material.⁷ In previous SEP proceedings, we committed to provide this report as an attachment in future SEP Petitions. Because we submit the data to the EPA website via electronic form, we include as Attachment H the summary report print-out of the Company's data for 2017 as reported to the EPA in March 2018.

CONCLUSION

We respectfully request that the Commission approve our updated natural gas SEP Rider rate factor as proposed in this Petition, our annual SEP compliance filing, and our proposed customer notice and tariff update.

Dated: March 1, 2019

Respectfully submitted by:

Northern States Power Company

⁷ 40 C.F.R. Part 98, Subparts A and W, provide the regulatory framework for the Greenhouse Gas (GHG) Reporting Program (November 10, 2010). The GHG calculation methodologies used in the rule generally include the use of engineering estimates, emissions modeling software, and emission factors, or, when other methods are not feasible, direct measurement of emissions. The established emission factor for cast iron main is 27.67 scf/hour/mile.

**STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION**

Dan Lipschultz
Matthew Schuerger
Katie Sieben
John Tuma

Commissioner
Commissioner
Commissioner
Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF A MODIFICATION
TO OUR NATURAL GAS SEP TARIFF,
UPDATED SEP RATE FACTOR, AND
SEP COMPLIANCE FILING

DOCKET No. G002/M-19-____

**PETITION AND
COMPLIANCE REPORT**

SUMMARY

Please take notice that on March 1, 2019, Northern States Power Company, doing business as Xcel Energy, filed with the Minnesota Public Utilities Commission a Petition for approval of an updated natural gas State Energy Policy (SEP) Rider rate factor, pursuant to Minn. Stat. §§ 216B.16, subd. 1 and 216B.62 subd. 3b, Minn. R. 7829.1300 and 7829.0100, and previous Commission Orders in our SEP Rider filings. The Petition includes the Company's annual SEP compliance filing.

State Energy Policy Rider Petition

Attachment Table of Contents

SEP Tariff Sheets and Rate

Attachment A1 – Tariff

Attachment A2 – Rate Factor

Cost Recovery and SEP Rate Calculations

Attachment B – Tracker

Attachment C – Budget Deviation Analysis

Gas Tracker Detail

Attachment D1 – Tracker Detail – Assessment of Department Regional and National Duties

Attachment D2 – Tracker Detail – Cast Iron Replacement Revenue Requirement

Attachment D3 – Tracker Detail – Cast Iron O&M Credit

Attachment D4 – Tracker Detail – Revenue Collections

Compliance

Attachment E – Base Assumptions – Cast Iron Pipe

Attachment F – Rate Case Bridge Schedule

Attachment G – Revenue Requirement Category Descriptions

Attachment H – Reporting to the U.S. Environmental Protection Agency re. Greenhouse Gas Emissions

Redline

MINNESOTA GAS RATE BOOK - MPUC NO. 2

STATE ENERGY POLICY RATE RIDER

Section No. 5

~~15th~~16th Revised Sheet No. 63

APPLICATION

Applicable to bills for gas service provided under the Company's retail rate schedules.

DETERMINATION OF CHARGES UNDER THIS RIDER

Customer bills under this rate will include the specific charges listed below.

RIDER

There shall be included on each customer's monthly bill a State Energy Policy Rate Rider which shall be the applicable State Energy Policy Rate Rider factor multiplied by the customer's monthly therm gas consumption.

DETERMINATION OF STATE ENERGY POLICY RATE FACTOR

The applicable State Energy Policy Rate Rider shall be the quotient obtained by dividing the annual State Energy Policy Tracker amount by the annual forecasted therm sales. The factor may be adjusted annually with approval of the Minnesota Public Utilities Commission.

Residential	\$0.001576 <u>\$0.001287</u> per therm
Commercial	\$0.001576 <u>\$0.001287</u> per therm

R
R

Recoverable State Energy Policy Rate Expense

All costs appropriately charged to the State Energy Policy Tracker account shall be eligible for recovery through this Rider, and all revenues received from the State Energy Policy adjustment portion of the Resource Adjustment shall be credited to the State Energy Policy Tracker account.

Date Filed: ~~03-01-18~~03-01-19

By: Christopher B. Clark

Effective Date: ~~01-01-19~~

President, Northern States Power Company, a Minnesota corporation

Docket No. G002/M-~~18-184~~19-

Order Date: ~~12-21-18~~

Clean

MINNESOTA GAS RATE BOOK - MPUC NO. 2

STATE ENERGY POLICY RATE RIDER

Section No. 5
16th Revised Sheet No. 63

APPLICATION

Applicable to bills for gas service provided under the Company's retail rate schedules.

DETERMINATION OF CHARGES UNDER THIS RIDER

Customer bills under this rate will include the specific charges listed below.

RIDER

There shall be included on each customer's monthly bill a State Energy Policy Rate Rider which shall be the applicable State Energy Policy Rate Rider factor multiplied by the customer's monthly therm gas consumption.

DETERMINATION OF STATE ENERGY POLICY RATE FACTOR

The applicable State Energy Policy Rate Rider shall be the quotient obtained by dividing the annual State Energy Policy Tracker amount by the annual forecasted therm sales. The factor may be adjusted annually with approval of the Minnesota Public Utilities Commission.

Residential	\$0.001287 per therm
Commercial	\$0.001287 per therm

R
R

Recoverable State Energy Policy Rate Expense

All costs appropriately charged to the State Energy Policy Tracker account shall be eligible for recovery through this Rider, and all revenues received from the State Energy Policy adjustment portion of the Resource Adjustment shall be credited to the State Energy Policy Tracker account.

Date Filed: 03-01-19

By: Christopher B. Clark
President, Northern States Power Company, a Minnesota corporation

Effective Date:

Docket No. G002/M-19-

Order Date:

Gas Rate Factor			
	note	2017-2018 Ordered (3)	2018-2019 Projected (4)
Test Year Revenue Requirement			\$ 1,420,542
Projected Under/(Over) Collection			\$ (118,742)
Net Revenue Requirement	1	\$ 1,530,774	\$ 1,301,800
Therms for Rate	1	971,043,548	1,011,582,014
Gas Rate/therm	1	0.001576	0.001287
Implemented Rate/therm		0.001576	0.001287
Residential bill impact / Month	2	\$ 0.11	\$ 0.09
Residential bill impact / Year	2	\$ 1.37	\$ 1.12

Notes:

- (1) Revenue Requirement, Rate and Sales as ordered in Docket No. G002/M-18-184
- (2) Assumes 872 therms per year, which equates to 72.68 therms per month.
- (3) Rate effective January 1, 2019.
- (4) Rate requested to be effective July 1, 2019.

Beginning with the 2019 Test Period the Company is requesting to include the projected over/under estimate for the test year in the rate calculation.

Gas Tracker															
	Reference Attachment	Carryover Balance	Jul-16 Actual	Aug-16 Actual	Sep-16 Actual	Oct-16 Actual	Nov-16 Actual	Dec-16 Actual	Jan-17 Actual	Feb-17 Actual	Mar-17 Actual	Apr-17 Actual	May-17 Actual	Jun-17 Actual	Total - 16/17 Actual
ADRND (1)	D1		\$ -	\$ -	\$ 10,336	\$ -	\$ -	\$ (16,871)	\$ -	\$ -	\$ 13,781	\$ -	\$ -	\$ 6,095	\$ 13,341
Cast Iron	D2		\$ 153,160	\$ 152,766	\$ 152,372	\$ 151,978	\$ 151,584	\$ 151,190	\$ 148,917	\$ 148,540	\$ 148,164	\$ 147,787	\$ 147,410	\$ 147,033	\$ 1,800,904
Cast Iron O&M Credit	D3		\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (72,310)
Carryover from Prev Yr (2)		\$ (490,768)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (40,897)	\$ (490,768)
Revenue Requirements (3)			\$ 106,237	\$ 105,843	\$ 115,785	\$ 105,055	\$ 104,661	\$ 87,396	\$ 101,994	\$ 101,617	\$ 115,022	\$ 100,864	\$ 100,487	\$ 106,205	\$ 1,251,167
Revenue Collections (4)	D4		\$ 53,363	\$ 72,224	\$ 46,484	\$ 55,752	\$ 81,501	\$ 126,152	\$ 216,830	\$ 158,142	\$ 166,519	\$ 112,783	\$ 87,220	\$ 65,716	\$ 1,242,685
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ 52,875	\$ 86,494	\$ 155,796	\$ 205,099	\$ 228,259	\$ 189,503	\$ 74,668	\$ 18,143	\$ (33,354)	\$ (45,273)	\$ (32,006)	\$ 8,483	\$ 8,483

	Reference Attachment	Carryover Balance	Jul-17 Actual	Aug-17 Actual	Sep-17 Actual	Oct-17 Actual	Nov-17 Actual	Dec-17 Actual	Jan-18 Actual	Feb-18 Actual	Mar-18 Actual	Apr-18 Actual	May-18 Actual	Jun-18 Actual	Total - 17/18 Actual
ADRND (1)	D1		\$ -	\$ -	\$ 5,884	\$ -	\$ -	\$ 1,269	\$ -	\$ -	\$ 5,884	\$ -	\$ -	\$ -	\$ 13,038
Cast Iron	D2		\$ 138,464	\$ 138,119	\$ 137,774	\$ 137,429	\$ 137,084	\$ 136,739	\$ 123,944	\$ 123,679	\$ 123,414	\$ 123,149	\$ 122,884	\$ 122,619	\$ 1,563,300
Cast Iron O&M Credit	D3		\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (72,310)
Carryover from Prev Yr (2)		\$ 8,483	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707	\$ 8,483
Revenue Requirements (3)			\$ 133,146	\$ 132,800	\$ 138,340	\$ 132,110	\$ 131,765	\$ 132,690	\$ 118,625	\$ 118,360	\$ 123,979	\$ 117,830	\$ 117,565	\$ 117,300	\$ 1,514,511
Revenue Collections (4)	D4		\$ 66,869	\$ 49,669	\$ 52,454	\$ 58,662	\$ 108,577	\$ 156,722	\$ 240,078	\$ 193,599	\$ 195,710	\$ 152,712	\$ 128,566	\$ 76,031	\$ 1,479,648
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ 66,277	\$ 149,408	\$ 235,294	\$ 308,742	\$ 331,931	\$ 307,899	\$ 186,446	\$ 111,207	\$ 39,477	\$ 4,595	\$ (6,406)	\$ 34,863	\$ 34,863

	Reference Attachment	Carryover Balance	Jul-18 Actual	Aug-18 Actual	Sep-18 Actual	Oct-18 Actual	Nov-18 Actual	Dec-18 Actual	Jan-19 Forecast	Feb-19 Forecast	Mar-19 Forecast	Apr-19 Forecast	May-19 Forecast	Jun-19 Forecast	Total - 18/19 Forecast	Net Revenue Requirement
ADRND (1)	D1		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,088	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,088	
Cast Iron	D2		\$ 122,354	\$ 122,089	\$ 121,824	\$ 121,559	\$ 121,294	\$ 121,029	\$ 120,779	\$ 120,518	\$ 120,256	\$ 119,994	\$ 119,733	\$ 119,471	\$ 1,450,900	
Cast Iron O&M Credit	D3		\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (72,310)	
Carryover from Prev Yr (2)		\$ 34,863	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 2,905	\$ 34,863	
Revenue Requirements (3)			\$ 119,233	\$ 118,968	\$ 118,703	\$ 118,438	\$ 118,173	\$ 124,997	\$ 117,659	\$ 117,397	\$ 117,135	\$ 116,874	\$ 116,612	\$ 116,350	\$ 1,420,542	\$ 1,420,542
Revenue Collections (4)	D4		\$ 91,840	\$ 85,252	\$ 69,296	\$ 73,778	\$ 114,719	\$ 170,880	\$ 255,706	\$ 196,994	\$ 179,702	\$ 125,313	\$ 88,505	\$ 87,297	\$ 1,539,284	
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Current Under/(Over) collection			\$ 27,393	\$ 61,109	\$ 110,517	\$ 155,177	\$ 158,631	\$ 112,748	\$ (25,300)	\$ (104,897)	\$ (167,463)	\$ (175,903)	\$ (147,795)	\$ (118,742)	\$ (118,742)	\$ (118,742)
Net Revenue Requirement for Rate (8)																\$ 1,301,800

	Reference Attachment	Carryover Balance	Jul-19 Forecast	Aug-19 Forecast	Sep-19 Forecast	Oct-19 Forecast	Nov-19 Forecast	Dec-19 Forecast	Jan-20 Forecast	Feb-20 Forecast	Mar-20 Forecast	Apr-20 Forecast	May-20 Forecast	Jun-20 Forecast	Total - 19/20 Forecast	Net Revenue Requirement
ADRND (1)	D1		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Cast Iron	D2		\$ 119,209	\$ 118,948	\$ 118,686	\$ 118,424	\$ 118,163	\$ 117,901	\$ 117,642	\$ 117,381	\$ 117,119	\$ 116,858	\$ 116,597	\$ 116,336	\$ 1,413,265	
Cast Iron O&M Credit	D3		\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (6,026)	\$ (72,310)	
Carryover from Prev Yr (2)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Revenue Requirements (3)			\$ 113,184	\$ 112,922	\$ 112,660	\$ 112,399	\$ 112,137	\$ 111,875	\$ 111,616	\$ 111,355	\$ 111,094	\$ 110,833	\$ 110,571	\$ 110,310	\$ 1,340,955	\$ 1,340,955
Revenue Collections (4)	D4		\$ 72,126	\$ 74,067	\$ 57,029	\$ 96,680	\$ 122,016	\$ 171,743	\$ 194,613	\$ 163,878	\$ 138,222	\$ 85,834	\$ 59,025	\$ 66,671	\$ 1,301,906	
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Current Under/(Over) collection			\$ 41,057	\$ 79,913	\$ 135,543	\$ 151,262	\$ 141,383	\$ 81,514	\$ (1,483)	\$ (54,006)	\$ (81,134)	\$ (56,136)	\$ (4,590)	\$ 39,049	\$ 39,049	\$ 39,049
Net Revenue Requirement for Rate (8)																\$ 1,380,004

Notes:

- (1) ADRND actual expenses are for invoiced amounts.
- (2) The Carryover from Previous Year is the Balance (Revenue Requirements minus Revenue Collections) from the preceeding year. That total is divided by 12 to spread the Carryover evenly throughout the year.
- (3) Revenue Requirements are the total SEP revenue requirements for the year plus the Carryover from the previous year.
- (4) Revenue Collections are actual through December 2018 and forecasts thereafter.
- (5) The Company does not forecast any carbon offset payments related to the gas cast iron pipe project.
- (6) Balance is the amount (over) under collected or the difference between the total revenue requirements and the amount of revenue received from customers under this Rider.

Northern States Power Company
State Energy Policy (SEP) Rider
Comparison by month of actual revenue requirements versus as ordered revenue requirements

Docket No. G002/M-19-____
2019 SEP Petition
Attachment C
Page 1 of 1

Gas Tracker

	2017-2018 SEP Period						2018-2019 SEP Period						
	Jan-18 <u>Projected</u>	Feb-18 <u>Projected</u>	Mar-18 <u>Projected</u>	Apr-18 <u>Projected</u>	May-18 <u>Projected</u>	Jun-18 <u>Projected</u>	Jul-18 <u>Projected</u>	Aug-18 <u>Projected</u>	Sep-18 <u>Projected</u>	Oct-18 <u>Projected</u>	Nov-18 <u>Projected</u>	Dec-18 <u>Projected</u>	Total
Natural Gas Revenue Requirements (calculation from Docket 18-184 as filed)	118,296	118,031	131,548	117,502	117,237	123,066	116,721	116,487	122,141	116,030	115,808	121,474	1,434,341
	Jan-18 <u>Actual</u>	Feb-18 <u>Actual</u>	Mar-18 <u>Actual</u>	Apr-18 <u>Actual</u>	May-18 <u>Actual</u>	Jun-18 <u>Actual</u>	Jul-18 <u>Actual</u>	Aug-18 <u>Actual</u>	Sep-18 <u>Actual</u>	Oct-18 <u>Actual</u>	Nov-18 <u>Actual</u>	Dec-18 <u>Actual</u>	Total
Natural Gas Revenue Requirements	117,918	117,653	123,272	117,123	116,858	116,593	116,328	116,063	115,798	115,533	115,268	122,092	1,410,500
Variance Ordered vs. actual-Gas Revenue Requirements	378	378	8,276	379	379	6,473	393	423	6,342	497	540	-617	23,841

	2017-2018 SEP Period						2018-2019 SEP Period						
	Jan-18 <u>Projected</u>	Feb-18 <u>Projected</u>	Mar-18 <u>Projected</u>	Apr-18 <u>Projected</u>	May-18 <u>Projected</u>	Jun-18 <u>Projected</u>	Jul-18 <u>Projected</u>	Aug-18 <u>Projected</u>	Sep-18 <u>Projected</u>	Oct-18 <u>Projected</u>	Nov-18 <u>Projected</u>	Dec-18 <u>Projected</u>	Total
Natural Gas Revenue (calculation from Docket 18-184 as filed)	192,409	160,607	133,775	82,127	65,516	52,121	89,421	81,057	75,222	97,689	169,673	253,842	1,453,459
	Jan-18 <u>Actual</u>	Feb-18 <u>Actual</u>	Mar-18 <u>Actual</u>	Apr-18 <u>Actual</u>	May-18 <u>Actual</u>	Jun-18 <u>Actual</u>	Jul-18 <u>Actual</u>	Aug-18 <u>Actual</u>	Sep-18 <u>Actual</u>	Oct-18 <u>Actual</u>	Nov-18 <u>Actual</u>	Dec-18 <u>Actual</u>	Total
Natural Gas Revenue	240,078	193,599	195,710	152,712	128,566	76,031	91,840	85,252	69,296	73,778	114,719	170,880	1,592,461
Variance Forecast vs. actual-Gas Revenues	-47,669	-32,991	-61,935	-70,585	-63,050	-23,911	-2,419	-4,195	5,926	23,911	54,954	82,962	-139,003

Net Result -162,843

The revenue requirements data has been adjusted to exclude the carryover balance to better compare the monthly actual costs to the equivalent forecasted costs.

Gas Tracker Detail ADRND		
		ADRND Invoice
Jan-17	Actual	\$ -
Feb-17	Actual	\$ -
Mar-17	Actual	\$ 13,781
Apr-17	Actual	\$ -
May-17	Actual	\$ -
Jun-17	Actual	\$ 6,095
Jul-17	Actual	\$ -
Aug-17	Actual	\$ -
Sep-17	Actual	\$ 5,884
Oct-17	Actual	\$ -
Nov-17	Actual	\$ -
Dec-17	Actual	\$ 1,269
Annual		\$ 27,030
Jan-18	Actual	\$ -
Feb-18	Actual	\$ -
Mar-18	Actual	\$ 5,884
Apr-18	Actual	\$ -
May-18	Actual	\$ -
Jun-18	Actual	\$ -
Jul-18	Actual	\$ -
Aug-18	Actual	\$ -
Sep-18	Actual	\$ -
Oct-18	Actual	\$ -
Nov-18	Actual	\$ -
Dec-18	Actual	\$ 7,088
Annual		\$ 12,973

Gas Tracker Detail													
Cast Iron Replacement Revenue Requirement by Month													
Rate Base	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Annual-16/17
Plus CWIP Ending Balance	0	0	0	0	0	0	0	0	0	0	0	0	0
Plus Plant In-Service	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108
Less Book Depreciation Reserve	1,783,032	1,812,285	1,841,538	1,870,790	1,900,043	1,929,296	1,958,549	1,987,802	2,017,055	2,046,307	2,075,560	2,104,813	2,104,813
Less Accum Deferred Taxes	1,113,217	1,125,889	1,138,562	1,151,234	1,163,907	1,176,579	1,187,554	1,198,529	1,209,504	1,220,479	1,231,454	1,242,429	1,242,429
End Of Month Rate Base	10,839,860	10,797,934	10,756,009	10,714,084	10,672,158	10,630,233	10,590,005	10,549,778	10,509,550	10,469,322	10,429,094	10,388,867	10,388,867
Average Rate Base (BOM/EOM)	10,860,822	10,818,897	10,776,972	10,735,046	10,693,121	10,651,196	10,610,119	10,569,892	10,529,664	10,489,436	10,449,208	10,408,981	10,632,779
Calculation of Return													
Plus Debt Return	20,093	20,015	19,937	19,860	19,782	19,705	19,452	19,378	19,304	19,231	19,157	19,083	234,997
Plus Equity Return	48,059	47,874	47,688	47,503	47,317	47,132	46,861	46,684	46,506	46,328	46,151	45,973	564,075
Total Return	68,152	67,889	67,625	67,362	67,099	66,836	66,313	66,062	65,810	65,559	65,308	65,056	799,072
Income Statement Items													
Plus Property Taxes	22,122	22,122	22,122	22,122	22,122	22,122	20,525	20,525	20,525	20,525	20,525	20,525	255,880
Plus Book Depreciation	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	351,034
Plus Deferred Taxes	12,672	12,672	12,672	12,672	12,672	12,672	10,975	10,975	10,975	10,975	10,975	10,975	141,884
Plus Current Taxes	20,962	20,831	20,700	20,569	20,438	20,307	21,851	21,726	21,600	21,475	21,350	21,224	253,034
Total Income Statement Expense	85,009	84,878	84,747	84,616	84,485	84,354	82,604	82,479	82,353	82,228	82,103	81,977	1,001,832
Total Revenue Requirements	153,160	152,766	152,372	151,978	151,584	151,190	148,917	148,540	148,164	147,787	147,410	147,033	1,800,904
Jurisdictional Revenue Requirement	153,160	152,766	152,372	151,978	151,584	151,190	148,917	148,540	148,164	147,787	147,410	147,033	1,800,904

Rate Base	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Annual-17/18
Plus CWIP Ending Balance	0	0	0	0	0	0	0	0	0	0	0	0	0
Plus Plant In-Service	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108
Less Book Depreciation Reserve	2,134,066	2,163,319	2,192,572	2,221,824	2,251,077	2,280,330	2,309,583	2,338,836	2,368,088	2,397,341	2,426,594	2,455,847	2,455,847
Less Accum Deferred Taxes	1,253,404	1,264,378	1,275,353	1,286,328	1,297,303	901,256	907,909	914,561	921,214	927,867	934,520	941,172	941,172
Less Excess Deferred Taxes						407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022
End Of Month Rate Base	10,348,639	10,308,411	10,268,183	10,227,956	10,187,728	10,147,500	10,111,595	10,075,689	10,039,784	10,003,878	9,967,973	9,932,067	9,932,067
Average Rate Base (BOM/EOM)	10,368,753	10,328,525	10,288,297	10,248,070	10,207,842	10,167,614	10,129,547	10,093,642	10,057,736	10,021,831	9,985,925	9,950,020	10,153,984
Calculation of Return													
Plus Debt Return	18,923	18,850	18,776	18,703	18,629	18,556	18,486	18,421	18,355	18,290	18,224	18,159	222,372
Plus Equity Return	41,043	40,884	40,725	40,565	40,406	40,247	40,096	39,954	39,812	39,670	39,528	39,385	482,314
Total Return	59,966	59,733	59,501	59,268	59,035	58,803	58,583	58,375	58,167	57,960	57,752	57,544	704,686
Income Statement Items													
Plus Property Taxes	20,525	20,525	20,525	20,525	20,525	20,525	20,137	20,137	20,137	20,137	20,137	20,137	243,974
Plus Book Depreciation	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	351,034
Plus Deferred Taxes	10,975	10,975	10,975	10,975	10,975	10,975	6,653	6,653	6,653	6,653	6,653	6,653	105,766
Plus Excess Deferred Taxes Flowback	0	0	0	0	0	0	0	0	0	0	0	0	0
Plus Current Taxes	17,746	17,633	17,521	17,409	17,296	17,184	9,319	9,261	9,204	9,147	9,089	9,032	159,840
Total Income Statement Expense	78,498	78,386	78,274	78,161	78,049	77,937	65,361	65,304	65,247	65,189	65,132	65,075	860,613
Total Revenue Requirements	138,464	138,119	137,774	137,429	137,084	136,739	123,944	123,679	123,414	123,149	122,884	122,619	1,565,300
Jurisdictional Revenue Requirement	138,464	138,119	137,774	137,429	137,084	136,739	123,944	123,679	123,414	123,149	122,884	122,619	1,565,300

Rate Base	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Annual-18/19
Plus CWIP Ending Balance	0	0	0	0	0	0	0	0	0	0	0	0	0
Plus Plant In-Service	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108
Less Book Depreciation Reserve	2,485,100	2,514,353	2,543,605	2,572,858	2,602,111	2,631,364	2,660,617	2,689,869	2,719,122	2,748,375	2,777,628	2,806,881	2,806,881
Less Accum Deferred Taxes	947,825	954,478	961,130	967,783	974,436	981,088	987,291	993,494	999,696	1,005,899	1,012,102	1,018,304	1,018,304
Less Excess Deferred Taxes	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022
End Of Month Rate Base	9,896,162	9,860,256	9,824,351	9,788,445	9,752,540	9,716,634	9,681,179	9,645,723	9,610,268	9,574,812	9,539,357	9,503,901	9,503,901
Average Rate Base (BOM/EOM)	9,914,114	9,878,209	9,842,303	9,806,398	9,770,492	9,734,587	9,698,906	9,663,451	9,627,995	9,592,540	9,557,085	9,521,629	9,717,309
Calculation of Return													
Plus Debt Return	18,093	18,028	17,962	17,897	17,831	17,766	17,701	17,636	17,571	17,506	17,442	17,377	212,809
Plus Equity Return	39,243	39,101	38,959	38,817	38,675	38,533	38,392	38,251	38,111	37,970	37,830	37,690	461,572
Total Return	57,337	57,129	56,921	56,714	56,506	56,298	56,092	55,887	55,682	55,477	55,272	55,067	674,381
Income Statement Items													
Plus Property Taxes	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	241,647
Plus Book Depreciation	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	351,034
Plus Deferred Taxes	6,653	6,653	6,653	6,653	6,653	6,653	6,203	6,203	6,203	6,203	6,203	6,203	77,132
Plus Excess Deferred Taxes Flowback	0	0	0	0	0	0	0	0	0	0	0	0	0
Plus Current Taxes	8,975	8,917	8,860	8,803	8,745	8,688	9,095	9,038	8,981	8,925	8,868	8,812	106,706
Total Income Statement Expense	65,017	64,960	64,903	64,845	64,788	64,731	64,687	64,631	64,574	64,518	64,461	64,404	776,519
Total Revenue Requirements	122,354	122,089	121,824	121,559	121,294	121,029	120,779	120,518	120,256	119,994	119,733	119,471	1,450,900
Jurisdictional Revenue Requirement	122,354	122,089	121,824	121,559	121,294	121,029	120,779	120,518	120,256	119,994	119,733	119,471	1,450,900

	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Annual-19/20
<u>Rate Base</u>													
Plus CWIP Ending Balance	0	0	0	0	0	0	0	0	0	0	0	0	0
Plus Plant In-Service	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108
Less Book Depreciation Reserve	2,836,134	2,865,386	2,894,639	2,923,892	2,953,145	2,982,398	3,011,651	3,040,903	3,070,156	3,099,409	3,128,662	3,157,915	3,157,915
Less Accum Deferred Taxes	1,024,507	1,030,709	1,036,912	1,043,115	1,049,317	1,055,520	1,061,654	1,067,789	1,073,923	1,080,057	1,086,191	1,092,326	1,092,326
Less Excess Deferred Taxes	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022	407,022
End Of Month Rate Base	9,468,446	9,432,990	9,397,535	9,362,079	9,326,624	9,291,169	9,255,781	9,220,394	9,185,007	9,149,620	9,114,233	9,078,846	9,078,846
Average Rate Base (BOM/EOM)	9,486,174	9,450,718	9,415,263	9,379,807	9,344,352	9,308,896	9,273,475	9,238,088	9,202,701	9,167,314	9,131,927	9,096,539	9,291,271
<u>Calculation of Return</u>													
Plus Debt Return	17,312	17,248	17,183	17,118	17,053	16,989	16,924	16,860	16,795	16,730	16,666	16,601	203,479
Plus Equity Return	37,549	37,409	37,269	37,128	36,988	36,848	36,708	36,567	36,427	36,287	36,147	36,007	441,335
Total Return	54,862	54,657	54,452	54,247	54,042	53,836	53,632	53,427	53,222	53,018	52,813	52,608	644,814
<u>Income Statement Items</u>													
Plus Property Taxes	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	20,137	241,647
Plus Book Depreciation	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	29,253	351,034
Plus Deferred Taxes	6,203	6,203	6,203	6,203	6,203	6,203	6,134	6,134	6,134	6,134	6,134	6,134	74,022
Plus Excess Deferred Taxes Flowback	0	0	0	0	0	0	0	0	0	0	0	0	0
Plus Current Taxes	8,755	8,698	8,642	8,585	8,529	8,472	8,486	8,429	8,373	8,316	8,260	8,203	101,748
Total Income Statement Expense	64,348	64,291	64,234	64,178	64,121	64,065	64,010	63,954	63,897	63,841	63,784	63,727	768,451
Total Revenue Requirements	119,209	118,948	118,686	118,424	118,163	117,901	117,642	117,381	117,119	116,858	116,597	116,336	1,413,265
Jurisdictional Revenue Requirement	119,209	118,948	118,686	118,424	118,163	117,901	117,642	117,381	117,119	116,858	116,597	116,336	1,413,265

Notes

Updates to 2017 balances included in Docket No. G002/M-17-174 (2017 Compliance Filing) result from Composite Tax rate and Property Tax rate updates effective 1/1/2018.

Gas Tracker Detail												
Cast Iron Replacement Revenue Requirement by Year (July - June)												
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Rate Base												
Plus CWIP Ending Balance	0	0	0	0	0	0	0	0	0	0	0	0
Plus Plant In-Service	74,612	1,642,890	6,204,585	10,782,150	13,736,109	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108	13,736,108
Less Book Depreciation Reserve	79	32,575	141,240	367,414	700,678	1,051,711	1,402,745	1,753,779	2,104,813	2,455,847	2,806,881	3,157,915
Less Accum Deferred Taxes	104	31,775	117,324	296,641	531,982	747,645	936,573	1,100,544	1,242,429	941,172	1,018,304	1,092,326
Less Excess Deferred Taxes										407,022	407,022	407,022
End Of Month Rate Base	74,429	1,578,540	5,946,022	10,118,095	12,503,449	11,936,752	11,396,790	10,881,785	10,388,867	9,932,067	9,503,901	9,078,846
Average Rate Base (BOM/EOM)	3,101	1,241,969	4,103,512	8,400,586	12,097,994	12,216,681	11,663,507	11,136,312	10,632,779	10,153,984	9,717,309	9,291,271
Calculation of Return												
Plus Debt Return	103	38,829	120,101	233,763	303,346	278,611	261,249	248,916	234,997	222,372	212,809	203,479
Plus Equity Return	157	64,177	216,849	446,979	642,934	649,295	621,089	591,901	564,075	482,314	461,572	441,335
Total Return	260	103,005	336,950	680,742	946,280	927,907	882,338	840,817	799,072	704,686	674,381	644,814
Income Statement Items												
Plus Property Taxes	0	11,491	44,887	117,456	228,825	288,830	279,257	267,922	255,880	243,974	241,647	241,647
Plus Book Depreciation	79	32,496	108,665	226,174	333,264	351,034	351,034	351,034	351,034	351,034	351,034	351,034
Plus Deferred Taxes	104	31,672	85,548	179,317	235,341	215,663	188,928	163,971	141,884	105,766	77,132	74,022
Plus Excess Deferred Taxes Flowback	0	0	0	0	0	0	0	0	0	0	0	0
Plus Current Taxes	5	12,955	65,757	132,542	213,293	237,495	244,716	249,811	253,034	159,840	106,706	101,748
Total Income Statement Expense	188	88,613	304,858	655,489	1,010,722	1,093,022	1,063,935	1,032,738	1,001,832	860,613	776,519	768,451
Total Revenue Requirements	447	191,619	641,808	1,336,231	1,957,002	2,020,928	1,946,272	1,873,555	1,800,904	1,565,300	1,450,900	1,413,265
MN Jurisdictional Revenue Requirement	447	191,619	641,808	1,336,231	1,957,002	2,020,928	1,946,272	1,873,555	1,800,904	1,565,300	1,450,900	1,413,265

Notes

Updates to 2017 balances included in Docket No. G002/M-17-174 (2017 Compliance Filing) result from Composite Tax rate and Property Tax rate updates effective 1/1/2018.

Gas Tracker Detail
Cast Iron O&M Credit

Part A: Derivation of the Annual Credit Amount		
1	Overall O&M Expenses (1)	\$ 39,980,000
2	Total Gas Distribution Main in Minnesota (miles)	8,864
3	Average Test Year O&M Expenses per Mile of Gas Distribution Main (Line 1/Line 2)	\$ 4,510
4	Potential Percentage Reduction in O&M Expenses Associated with Gas Cast Iron (2)	93.48%
5	Potential O&M Expense Associated with Gas Cast Iron Pipe to be Replaced per Mile (Line 3*Line 4)	\$ 4,216
6	Gas Cast Iron Pipe to be Replaced (miles)	25
7	Potential Annual O&M Expenses Reduction due to Gas Cast Iron Replacement (Line 5*Line 6)	\$ 105,408
Part B: Derivation of the Recovery in Base Rates		
8	Miles replaced in 2009	5.0
9	Miles replaced in 2010	5.7
10	Total Miles reflected in reduced O&M in base rates (Line 8 + Line 9*50%)	7.9
11	Expense Reduction per line mile (Line 5)	\$ 4,216
12	Annual Credit reflected in base rates (Line 10*Line 11)	\$ 33,098
Part C: Derivation of 2012 Credit		
13	Miles to be replaced in 2010	5.7
14	Miles to be replaced in 2011	7.6
15	Miles to be replaced in 2012	6.7
16	Total Miles included in 2012 SEP O&M Credit (Lines 13*50% + Line 14 + Line 15)	17.2
17	Expense Reduction per line mile (Line 5)	\$ 4,216
18	SEP O&M Credit in 2012 (Line 16*Line 17)	\$ 72,310
Part D: Reconciliation		
19	Credit reflected in base rates (Line 12)	\$ 33,098
20	SEP O&M Credit in 2012 (Line 18)	\$ 72,310
21	Potential Expense Reduction (Line 7) = Recovery in Base Rates (Line 12) + 2012 Credit (18)	\$ 105,408

Notes:

- (1) Docket No. G002/GR-09-1153
- (2) Average of 0.28571 leaks per mile associated with the gas cast iron minus an average of 0.01986 leaks per mile for overall gas distribution system piping. $(0.28571 - 0.01986) / 0.28571 = 93.48\%$. As of 2012, all cast iron had been removed and the leak rate cannot be reported. The average leak rate for the overall system was 0.01421 leaks/mile. The O&M credit approved in Docket No. E,G002/M-13-161 is assumed in 2013 and beyond, since all replacement work has been completed.

Gas Tracker Detail
Revenue Collections (SEP Rider Fiscal Period July - June)
Actual Revenues Through December 2018 and Forecast Revenues (Therm Sales * Gas Factor) through June 2019

2015 Rider Year	Jul-15 Actual	Aug-15 Actual	Sep-15 Actual	Oct-15 Actual	Nov-15 Actual	Dec-15 Actual	Jan-16 Actual	Feb-16 Actual	Mar-16 Actual	Apr-16 Actual	May-16 Actual	Jun-16 Actual	Total-15/16
Revenue Collections	\$ 97,466	\$ 85,412	\$ 88,900	\$ 90,860	\$ 132,683	\$ 161,745	\$ 95,779	\$ 97,468	\$ 90,171	\$ 61,438	\$ 43,498	\$ 33,357	\$ 1,078,776

2016 Rider Year	Jul-16 Actual	Aug-16 Actual	Sep-16 Actual	Oct-16 Actual	Nov-16 Actual	Dec-16 Actual	Jan-17 Actual	Feb-17 Actual	Mar-17 Actual	Apr-17 Actual	May-17 Actual	Jun-17 Actual	Total-16/17
Revenue Collections	\$ 53,363	\$ 72,224	\$ 46,484	\$ 55,752	\$ 81,501	\$ 126,152	\$ 216,830	\$ 158,142	\$ 166,519	\$ 112,783	\$ 87,220	\$ 65,716	\$ 1,242,685

2017 Rider Year	Jul-17 Actual	Aug-17 Actual	Sep-17 Actual	Oct-17 Actual	Nov-17 Actual	Dec-17 Actual	Jan-18 Actual	Feb-18 Actual	Mar-18 Actual	Apr-18 Actual	May-18 Actual	Jun-18 Actual	Total-17/18
Revenue Collections	\$ 66,869	\$ 49,669	\$ 52,454	\$ 58,662	\$ 108,577	\$ 156,722	\$ 240,078	\$ 193,599	\$ 195,710	\$ 152,712	\$ 128,566	\$ 76,031	\$ 1,479,648

2018 Rider Year	Jul-18 Actual	Aug-18 Actual	Sep-18 Actual	Oct-18 Actual	Nov-18 Actual	Dec-18 Actual	Jan-19 Forecast	Feb-19 Forecast	Mar-19 Forecast	Apr-19 Forecast	May-19 Forecast	Jun-19 Forecast	Total-18/19
Forecast Sales Rate							162,249,985 0.001576	124,996,370 0.001576	114,024,138 0.001576	79,513,375 0.001576	56,157,907 0.001576	55,391,496 0.001576	592,333,270
Revenue Collections	\$ 91,840	\$ 85,252	\$ 69,296	\$ 73,778	\$ 114,719	\$ 170,880	\$ 255,706	\$ 196,994	\$ 179,702	\$ 125,313	\$ 88,505	\$ 87,297	\$ 1,539,284

Base Assumptions - Gas Cast Iron Pipe

Capital Structure	2017 *			2018 *			2019 *		
	Percent	Cost	Weighted Cost	Percent	Cost	Weighted Cost	Percent	Cost	Weighted Cost
Long Term Debt %	45.61%	4.71%	2.15%	45.61%	4.71%	2.15%	45.61%	4.71%	2.15%
Short Term Debt %	1.89%	1.91%	0.04%	1.89%	1.91%	0.04%	1.89%	1.91%	0.04%
Preferred Stock %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Common Stock %	52.50%	9.04%	4.75%	52.50%	9.04%	4.75%	52.50%	9.04%	4.75%
	100.00%		6.94%	100.00%		6.94%	100.00%		6.94%

* Capital Structure as ordered in Docket No. G002/M-17-174

Income Tax Rates		2017	2018	2019		2017	2018**	2019
Income Tax Rates	MN Jur	9.8000%	9.8000%	9.8000%	Federal	35.0000%	21.0000%	21.0000%
MN Composite Income Tax Rate	MN Jur	41.3700%	28.7420%	28.7420%	MN Co	40.8468%	28.1344%	28.1344%

** Federal Tax Rate effective 1/1/2018

Property Tax Rates		2017	2018	2019
Property Tax Rate = Goodhue	100.00 % Taxable	1.701%	1.662%	1.662%
Property Tax Rate = Ramsey	100.00 % Taxable	1.826%	1.798%	1.798%
Property Tax Rate = Rice	100.00 % Taxable	1.634%	1.586%	1.586%
Property Tax Rate = Stearns	100.00 % Taxable	1.792%	1.716%	1.716%
Property Tax Rate = Washington	100.00 % Taxable	1.680%	1.588%	1.588%
Property Tax Rate = Winona	100.00 % Taxable	1.525%	1.443%	1.443%

State of MN Allocator			
Gas Distribution		Minnesota	Minnesota
	Total	Company	Minnesota
Direct Assigned - Minnesota	100.000%	100.000%	100.000%

Northern States Power Company, a Minnesota corporation
Gas Operations - State of Minnesota
RATE BASE SCHEDULES
RATE BASE ADJUSTMENT SCHEDULES
2010 Unadjusted Test Year versus 2010 Adjusted Test Year
(\$000's)

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Line No.	Description	Unadjusted	Projected Gas Storage (1)	CIAC 2004 Rate Case Adjustment (2)	CIAC 2007 Rate Case Adjustment (3)	CIAC 2010 Rate Case Adjustment (4)	SEP Rider Adjustment (5)	New Area Surcharge (6)	Income Statement (7)	Adjusted
	Gas Plant as Booked									
1	Production	\$15,537								\$15,537
2	Storage	\$30,880								\$30,880
3	Transmission	\$63,410								\$63,410
4	Distribution	\$739,803		(\$2,366)	(\$82)	(\$105)	(\$3,261)			\$733,991
5	General	\$33,543								\$33,543
6	Common	\$62,221								\$62,221
7	TBT Investment	\$0								\$0
8	TOTAL Utility Plant in Service	\$945,395		(\$2,366)	(\$82)	(\$105)	(\$3,261)	\$0		\$939,582
	Reserve for Depreciation									
9	Production	\$11,942								\$11,942
10	Storage	\$23,142								\$23,142
11	Transmission	\$24,423								\$24,423
12	Distribution	\$333,684		(\$465)	(\$10)	(\$2)	(\$48)	(\$1,036)		\$332,123
13	General	\$12,567								\$12,567
14	Common	\$41,876								\$41,876
15	TOTAL Reserve for Depreciation	\$447,634		(\$465)	(\$10)	(\$2)	(\$48)	(\$1,036)		\$446,074
	Net Utility Plant in Service									
16	Production	\$3,595								\$3,595
17	Storage	\$7,738								\$7,738
18	Transmission	\$38,987								\$38,987
19	Distribution	\$406,119		(\$1,901)	(\$72)	(\$103)	(\$3,213)	\$1,036		\$401,867
20	General	\$20,976								\$20,976
21	Common	\$20,345								\$20,345
22	TBT Investment	\$0								\$0
23	Net Utility Plant in Service	\$497,760		(\$1,901)	(\$72)	(\$103)	(\$3,213)	\$1,036		\$493,508
24	Utility Plant Held for Future Use	\$0								\$0
25	Construction Work in Progress	\$4,337								\$4,337
26	Less: Accumulated Deferred Income Tax	\$92,687		(\$473)	(\$4)	(\$1)	(\$52)	(\$26)		\$92,132
27	Cash Working Capital	(\$4,321)							\$379	(\$3,942)
	Other Rate Base Items:									
28	Materials and Supplies	\$1,037								\$1,037
29	Gas In Storage	\$40,566	\$2,133							\$42,699
30	Non-Plant Assets & Liabilities	(\$9,805)								(\$9,805)
31	Prepayments	\$5,651								\$5,651
32	Customer Advances	(\$1,653)								(\$1,653)
33	Other Working Capital	\$897								\$897
34	Total Other Rate Base Items	\$36,693	\$2,133	\$0	\$0	\$0	\$0	\$0	\$0	\$38,826
35	Total Average Rate Base	\$441,783	\$2,133	(\$1,428)	(\$69)	(\$102)	(\$3,161)	\$1,062	\$379	\$440,597

Northern States Power Company, a Minnesota corporation
Gas Operations - State of Minnesota
INCOME STATEMENT SCHEDULES
INCOME STATEMENT ADJUSTMENT SCHEDULES
2010 Unadjusted Test Year versus 2010 Adjusted Test Year
(\$000's)

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Line No.	Description	2010 Unadjusted(1)	Projected Gas Storage Adjustment 1	CIAC 2004 Rate Case Adjustment 2	CIAC 2007 Rate Case Adjustment 3	CIAC 2010 Rate Case Adjustment 4	SEP Rider Adjustment 5	New Area Surcharge Adjustment 6	Charitable Contributions Adjustment 7	Interest on Customer Deposits Adjustment 8	Advertising Adjustment 9	Professional & Association Dues Adjustment 10
Operating Revenues												
1	Retail	\$580,760					(\$269)					
2	Weather Impact Net Margin Adjustment	0										
3	Interdepartmental & Transportation	9,050										
4	Other Operating	5,382										
5	Gross Earnings Tax	0										
6	Total Operating Revenues	\$595,192	\$0	\$0	\$0	\$0	(\$269)	\$0	\$0	\$0	\$0	\$0
Expenses												
Operating Expenses:												
7	Purchased Gas	\$426,919										
8	Other Production	4,305										
9	Transmission	1,261										
10	Distribution	28,447										
11	Customer Accounting	15,700										
12	Customer Service & Information	14,896										
13	Administrative & General	17,213							153	16	(254)	(2)
14	Sales, Econ Dvlp & Other	47									(19)	
15	Total Operating Expenses	\$508,787	\$0	\$0	\$0	\$0	\$0	\$0	\$153	\$16	(\$273)	(\$2)
16	Depreciation	\$32,877		(\$72)	(\$3)	(\$3)	(\$70)	\$128				
17	Amortizations	(99)					99					
Taxes:												
18	Property	\$12,798					(\$22)					
19	Gross Earnings	0										
20	Deferred Income Tax & ITC	2,764		6	(1)	(1)	(70)	(52)				
21	Federal & State Income Tax	6,511	(27)	42	3	4	(4)	(13)	(63)	(7)	113	1
22	Payroll & Other	1,946										
23	Total Taxes	\$24,019	(\$27)	\$48	\$2	\$3	(\$96)	(\$65)	(\$63)	(\$7)	\$113	\$1
24	Total Expenses	\$565,584	(\$27)	(\$24)	(\$1)	\$0	(\$67)	\$63	\$90	\$9	(\$160)	(\$1)
25	Allowance for Funds Used During Construction	\$414										
26	Total Operating Income	\$30,022	\$27	\$24	\$1	\$0	(\$202)	(\$63)	(\$90)	(\$9)	\$160	\$1
Revenue Requirement												
27	Total Rate Base	\$441,783	\$2,133	(\$1,428)	(\$69)	(\$102)	(\$3,161)	\$1,062	\$0	\$0	\$0	\$0
28	Require Operating Inc (RB * Req Return)	\$38,877	\$188	(\$126)	(\$6)	(\$9)	(\$278)	\$93	\$0	\$0	\$0	\$0
29	Operating Income	\$30,022	\$27	\$24	\$1	\$0	(\$202)	(\$63)	(\$90)	(\$9)	\$160	\$1
30	Operating Income Deficiency	\$8,855	\$161	(\$150)	(\$7)	(\$9)	(\$76)	\$156	\$90	\$9	(\$160)	(\$1)
31	Revenue Requirement	\$15,103	\$275	(\$256)	(\$12)	(\$16)	(\$130)	\$266	\$153	\$16	(\$273)	(\$2)
Schedule M Items												
		42,771	-	(58)	(5)	(6)	(240)	-	-	-	-	-
Tax Additions												
		136	-	-	-	-	-	-	-	-	-	-
Rate Base Adjustment												
		441,783	2,133	(1,428)	(69)	(102)	(3,161)	1,062	-	-	-	-
Cost of Debt												
		3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%
Tax Rate												
		0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137
Calculation of Federal And State Income Tax												
	Operating Revenue	595,192	0	0	0	0	(269)	0	0	0	0	0
	Less Operating Expenses	508,787	0	0	0	0	0	0	153	16	(273)	(2)
	Operating Income before Adjustments	86,405	0	0	0	0	(269)	0	(153)	(16)	273	2
	Additions to Income	136	0	0	0	0	0	0	0	0	0	0
	Deductions from Income	57,416	0	(58)	(5)	(6)	(163)	0	0	0	0	0
	Debt Synchronization	13,386	65	(43)	(2)	(3)	(96)	32	0	0	0	0
	Operating Income After Adjustments	15,739	(65)	101	7	9	(10)	(32)	(153)	(16)	273	2
	Federal & State Income Tax	6,511	(27)	42	3	4	(4)	(13)	(63)	(7)	113	1

Northern States Power Company, a Minnesota corporation
Gas Operations - State of Minnesota
INCOME STATEMENT SCHEDULES
INCOME STATEMENT ADJUSTMENT SCHEDULES
2010 Unadjusted Test Year versus 2010 Adjusted Test Year
(\$000's)

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Line No.	Description	Incentive Compensation Adjustment 11	Employee Expense Adjustment 12	2009 Wage Increase Adjustment 13	Gas Affordability Program Adjustment 14	CIP Adjustment 15	CIP Incentive Bonus Removal 16	Economic Development Adjustment 17	Rate Case Expense Amortization 18	CWC 19	2010 Adjusted(1)
Operating Revenues											
1	Retail					(9,286)					\$571,205
2	Weather Impact Net Margin Adjustment										0
3	Interdepartmental & Transportation										9,050
4	Other Operating						(1,027)				4,355
5	Gross Earnings Tax										0
6	Total Operating Revenues	\$0	\$0	\$0	\$0	(\$9,286)	(\$1,027)	\$0	\$0	\$0	\$584,610
Expenses											
Operating Expenses:											
7	Purchased Gas										\$426,919
8	Other Production										4,305
9	Transmission										1,261
10	Distribution										28,447
11	Customer Accounting				(20)						15,680
12	Customer Service & Information					(9,286)					5,610
13	Administrative & General	(625)	(108)	236							16,629
14	Sales, Econ Dvlp & Other							3			31
15	Total Operating Expenses	(\$625)	(\$108)	\$236	(\$20)	(\$9,286)	\$0	\$3	\$0	\$0	\$498,882
16	Depreciation										\$32,857
17	Amortizations								532		532
Taxes:											
18	Property										\$12,776
19	Gross Earnings										0
20	Deferred Income Tax & ITC			(98)	8	0	(425)	(1)	(220)	(5)	2,646
21	Federal & State Income Tax										6,122
22	Payroll & Other	259	45								1,946
23	Total Taxes	\$259	\$45	(\$98)	\$8	\$0	(\$425)	(\$1)	(\$220)	(\$5)	\$23,490
24	Total Expenses	(\$366)	(\$63)	\$138	(\$12)	(\$9,286)	(\$425)	\$2	\$312	(\$5)	\$555,761
25	Allowance for Funds Used During Construction										\$414
26	Total Operating Income	<u>\$366</u>	<u>\$63</u>	<u>(\$138)</u>	<u>\$12</u>	<u>\$0</u>	<u>(\$602)</u>	<u>(\$2)</u>	<u>(\$312)</u>	<u>\$5</u>	<u>\$29,263</u>
Revenue Requirement											
27	Total Rate Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$379	\$440,597
28	Require Operating Inc (RB * Req Return)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33	\$38,773
29	Operating Income	\$366	\$63	(\$138)	\$12	\$0	(\$602)	(\$2)	(\$312)	\$5	\$29,263
30	Operating Income Deficiency	(\$366)	(\$63)	\$138	(\$12)	\$0	\$602	\$2	\$312	\$28	\$9,510
31	Revenue Requirement	<u>(\$625)</u>	<u>(\$108)</u>	<u>\$236</u>	<u>(\$20)</u>	<u>\$0</u>	<u>\$1,027</u>	<u>\$3</u>	<u>\$532</u>	<u>\$48</u>	<u>\$16,220</u>
Schedule M Items											
		-	-	-	-	-	-	-	-	-	-
Tax Additions											
		-	-	-	-	-	-	-	-	-	-
Rate Base Adjustment											
		-	-	-	-	-	-	-	-	379	440,597
Cost of Debt											
		3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%	3.03%
Tax Rate											
		0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137	0.4137
Calculation of Federal And State Income Tax											
	Operating Revenue	0	0	0	0	(9,286)	(1,027)	0	0	0	584,610
	Less Operating Expenses	(625)	(108)	236	(20)	(9,286)	0	3	0	0	498,882
	Operating Income before Adjustments	625	108	(236)	20	0	(1,027)	(3)	0	0	85,728
	Additions to Income	0	0	0	0	0	0	0	0	0	0
	Deductions from Income	0	0	0	0	0	0	0	532	0	14,722
	Debt Synchronization	0	0	0	0	0	0	0	0	11	13,350
	Operating Income After Adjustments	<u>625</u>	<u>108</u>	<u>(236)</u>	<u>20</u>	<u>0</u>	<u>(1,027)</u>	<u>(3)</u>	<u>(532)</u>	<u>(11)</u>	<u>57,656</u>
	Federal & State Income Tax	259	45	(98)	8	0	(425)	(1)	(220)	(5)	6,122

Revenue Requirements Category Descriptions

This attachment explains the three categories (Rate Base, Calculation of Return and Income Statement Items) and each component of these categories used to determine the Revenue Requirement. The calculation of the Revenue Requirement for the Cast Iron Replacement project is shown on Attachment D2.

I. Rate Base

The following section explains each component of the Rate Base category and the rationale for including or excluding the cost.

Plant in Service - This is an addition to rate base. This category reflects the original cost of gas plant that has been put into service. In the specific case of the annual 2018-2019 Test Year plant in service for the natural gas Cast Iron Pipe Replacement project, the \$13,736,108 shown on Attachment D2 of this filing reflects the dollar value portion of the project in service as of June 30, 2019. Standard ratemaking methodology calls for the inclusion of this item in the determination of rate base.

Book Depreciation Reserve - This is a reduction to rate base. It reflects the accumulated recovery of the amount invested in plant in service. In the specific case of the 2018-2019 Test Year, book depreciation reserve for the natural gas Cast Iron Pipe Replacement project, the \$2,806,881 shown on Attachment D2 of this filing reflects the amount of the plant in service that has been recovered as of June 30, 2019, which results in a decrease to rate base. Standard ratemaking methodology calls for the inclusion of this credit balance (contra-asset) as a reduction in the determination of rate base.

Accumulated Deferred Taxes - This is a reduction to rate base. It reflects the tax timing differences between book and tax depreciation lives and other non-plant book/tax timing differences, multiplied by the tax rate. Over the life of an asset, the Accumulated Deferred Tax is zero. In the specific case of the 2018-2019 Test Year accumulated deferred taxes for the natural gas Cast Iron Pipe Replacement project, the \$1,018,304 shown on Attachment D2 of this filing reflects the accumulation of tax timing differences between book and tax depreciation through June 2019, which results in a decrease to rate base. Standard ratemaking methodology calls for the inclusion of this timing-related credit balance (contra-asset) as a reduction in the determination of rate base.

Excess Accumulated Deferred Taxes – This is a reduction to rate base and resulted from the Tax Cut and Jobs Act (TCJA) legislation that changed the Federal Income Tax rate from 35% to 21% effective January 1, 2018. This balance represents the level of Accumulated Deferred Income Taxes that need to be returned to rate payers as a result of the tax rate change. Separation of this ratepayer liability from the deferred income tax liability to the government was made effective December 2017. The TCJA's normalization requirements require utilities to return the excess Accumulated Deferred Income Taxes to ratepayers over the remaining life of the underlying asset using the Average Rate Assumption Method. Standard ratemaking methodology calls for the inclusion of this timing-related credit balance (contra-asset) as a reduction in the determination of rate base.

II. Calculation of Return

The following section explains both components of the Calculation of Return category. Note that for both items below, standard ratemaking methodology calls for the inclusion of these items in the calculation of revenue requirements.

Debt Return - This category reflects the return the Company is allowed in order to recover its weighted cost of debt for financing its capital investments. In the specific case of the annual 2018-2019 Test Year, the debt return for the natural gas Cast Iron Pipe Replacement project, the \$212,809 shown on Attachment D2 of this filing reflect the amount of debt return the Company is allowed based on the overall weighted cost of debt.

Equity Return - This category reflects the return the Company is allowed in order to recover its weighted cost of equity for financing its capital investments. In the specific case of the annual 2018-2019 Test Year, the equity return for the natural gas Cast Iron Pipe Replacement project, the \$461,572 shown on Attachment D2 of this filing reflects the amount of return on equity the Company is allowed based on the overall weighted cost of equity.¹

III. Income Statement Items

The following section explains each component of the Income Statement Items category. Note that for each item below, standard ratemaking methodology calls for the inclusion of these items in the calculation of revenue requirements.

¹ In the August 24, 2017 Order in Docket No. G002/M-17-174, we were ordered to use the return on equity approved in the Gas Utility Infrastructure Costs (GUIC) Rider (Docket No. G002/M-16-891) and the weighted cost of debt approved in the 2013 electric rate case (Docket No. E002/GR-13-868).

Property Taxes - This category reflects the estimated property taxes billed from local taxing authorities that the Company must pay based on the original cost of the Company's assets. Property taxes accrued are based on the original cost at December 31 from the prior year, and then are paid the following year. In the specific case of the annual 2018-2019 Test Year property tax amount for the natural gas Cast Iron Pipe Replacement project, the \$241,647 shown on Attachment D2 of this filing reflect one half of the amount of property taxes the Company is anticipating to accrue in calendar year 2018 for the plant in service as of December 31, 2018, plus one-half of calendar year 2019. We reflect one-half of each year, since the 2018-2019 SEP Test Year period is split evenly across both calendar periods.

Book Depreciation - This category reflects the monthly/annual depreciation expense that is accumulated in the book depreciation reserve defined in part a) subsection ii). In the specific case of the annual 2018-2019 Test Year, book depreciation for the natural gas Cast Iron Pipe Replacement project, the \$351,034 shown on Attachment D2 reflects the amount of plant in service that is being recovered through depreciation expense from July 2018 - June 2019 and included in the annual revenue requirement.

Deferred Taxes - This category reflects the monthly/annual deferred tax expense that is accumulated in the accumulated deferred reserve defined in part a) subsection iii). In the specific case of the annual 2018-2019 Test Year, deferred taxes for the natural gas Cast Iron Pipe Replacement project, the \$77,132 shown on Attachment D2 reflects the July 2018 - June 2019 tax timing difference when book expense differs from tax expense and is included in the annual revenue requirement.

Current Taxes - This category reflects the current income taxes the Company is anticipated to pay based on its taxable income. In the specific case of the annual 2018-2019 Test Year, current taxes for the natural gas Cast Iron Pipe Replacement project, the \$106,706 shown on Attachment D2 reflects the amount of current income taxes the Company is anticipating to pay as a result of the taxable income being generated by the Cast Iron Pipe Replacement project.

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: Northern States Power Company, A Minnesota Corporation

Facility Identifier: 524615

Facility Reporting Year: 2017

Facility Location:

Address: 414 Nicollet Mall

City: Minneapolis

State: MN

Postal Code: 55401

Facility Site Details:

CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):
55,733.7

CO2 equivalent emissions from supplier subparts LL-QQ (metric tons): 3,601,473.1

Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2017-01-01

GHG Report End Date: 2017-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Plant Code Indicator: N

Primary NAICS Code: 221210

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: XCEL ENERGY

Address: 414 Nicollet Mall, Minneapolis, MN 55401

Percent Ownership Interest: 100

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity	510.4 (Metric Tons)
Own Result?	

Gas Name	Methane
Gas Quantity	2,208.93 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity	0 (Metric Tons)

Own Result?	
--------------------	--

SubpartWSummaryDetails:

Industry Segment Number	8
Industry Segment Name	Natural gas distribution [98.230(a)(8)]
Total Reported CO2 Emissions (mt CO2)	510.4
Total CO2e Emissions (mt CO2e)	55733.7
Total Reported CH4 Emissions (mt CH4)	2208.93
Total Reported N2O Emissions (mt N2O)	0.000

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Onshore Production [98.236(aa)(1)]
Required for Selected Industry Segment	No
Source Reporting Form	Facility Overview [98.236(aa)(2-11)]
Required for Selected Industry Segment	Yes
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(b)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Source Reporting Form	Acid Gas Removal Units [98.236(d)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Source Reporting Form	Dehydrators [98.236(e)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Well Venting for Liquids Unloading [98.236(f)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Source Reporting Form	Completions and Workovers with Hydraulic Fracturing [98.236(g)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Completions and Workovers without Hydraulic Fracturing [98.236(h)]

Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Blowdown Vent Stacks [98.236(i)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Source Reporting Form	Atmospheric Storage Tanks [98.236(j)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Transmission Storage Tanks [98.236(k)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Well Testing [98.236(l)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Associated Gas Venting and Flaring [98.236(m)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Flare Stacks [98.236(n)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Centrifugal Compressors [98.236(o)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Reciprocating Compressors [98.236(p)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	

	Equipment Leaks Surveys and Population Counts [98.236(q,r)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	66.4
Total Reported CH4 Emissions (mt CH4)	2208.93
Source Reporting Form	Offshore Petroleum and Natural Gas Production [98.236(s)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000
Source Reporting Form	Enhanced Oil Recovery Injection Pumps [98.236(w)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids [98.236(x)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Source Reporting Form	Combustion Equipment at Onshore Petroleum and Natural Gas Production Facilities, Onshore Petroleum and Natural Gas Gathering and Boosting Facilities, and Natural gas Distribution Facilities [98.236(z)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	444.0
Total Reported CH4 Emissions (mt CH4)	0.00
Total Reported N2O Emissions (mt N2O)	0.000

FacilityOverviewDetails:

FacilityOverviewNaturalGasDistributionRowDetails:

Quantity of natural gas received at all custody transfer stations in the calendar year (thousand standard cubic feet) [98.236(aa)(9)(i)]	93517889
Quantity of natural gas withdrawn from in-system storage in the calendar year (thousand standard cubic feet) [98.236(aa)(9)(ii)]	401277
Quantity of natural gas added to in-system storage in the calendar year (thousand standard cubic feet) [98.236(aa)(9)(iii)]	99008
Quantity of natural gas delivered to end users (thousand standard cubic feet) [98.236(aa)(9)(iv)]	94405608
Quantity of natural gas transferred to third parties such as other LDCs or pipelines (thousand standard cubic feet) [98.236(aa)(9)(v)]	0
	43269.77

Quantity of natural gas consumed by the LDC for operational purposes (thousand standard cubic feet) [98.236(aa)(9)(vi)]	
Estimated quantity of gas stolen in the calendar year (thousand standard cubic feet) [98.236(aa)(9)(vii)]	31051.8

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	66.4
mt CH4	2208.93
Did this facility use leak surveys to calculate emissions from equipment leaks in accordance with 98.232 [per 98.236(q)]?	Yes
Did this facility use population counts to calculate emissions from equipment leaks in accordance with 98.232 [per 98.236(r)]?	Yes
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Number of complete equipment leak surveys performed during the calendar year [98.236(q)(1)(i)]	1
For Natural gas distribution facilities conducting multi-year surveys, number of years in the leak survey cycle [98.236(q)(1)(ii)]	1
Optical gas imaging instrument as specified in §60.18 [98.234(a)(1)]	No
Method 21 [98.234(a)(2)]	Yes
Infrared laser beam illuminated instrument [98.234(a)(3)]	No
Acoustic leak detection device [98.234(a)(5)]	No
Optical gas imaging instrument as specified in §60.5397a [98.234(a)(6)]	No
Method 21 as specified in §60.5397a [98.234(a)(7)]	No
Total number of above grade T-D transfer stations surveyed in the calendar year [98.236(q)(3)(i)]	43
Number of meter/regulator runs at above grade T-D transfer stations surveyed in the calendar year, CountMR,y [98.236(q)(3)(ii)]	56
Average time meter/regulator runs surveyed in calendar year were operational, Average of calendar year Tw,y (hours) [98.236(q)(3)(iii)]	8760
Number of above grade T-D transfer stations surveyed in current leak survey cycle [98.236(q)(3)(iv)]	43
Number of meter/regulator runs at above grade T-D transfer stations surveyed in current leak survey cycle, Sum of CountMR,y [98.236(q)(3)(v)]	56
Average time that meter/regulator runs surveyed in the current leak survey cycle were operational, Average of current survey Tw,y (hours) [98.236(q)(3)(vi)]	8760
Meter/regulator run CO2 emission factor based on all surveyed T-D transfer stations in current leak cycle, Average of current survey EFS,MR,i (standard cubic feet	0.00015

per operational hour of all meter/regulator runs) [98.236(q)(3)(vii)]	
Meter/regulator run CH4 emission factor based on all surveyed T-D transfer stations in current leak cycle, Average of current survey EFS,MR,i (standard cubic feet per operational hour of all meter/regulator runs) [98.236(q)(3)(viii)]	0.01379
Does the facility perform equipment leak surveys across a multiple year leak survey cycle (Yes/No) [98.236(q)(3)(ix)]	No
Number of above grade T-D transfer stations at the facility [98.236(r)(2)(i)]	43
Number of above grade metering-regulating stations that are not T-D transfer stations [98.236(r)(2)(ii)]	199
Total number of meter/regulator runs at above grade metering-regulating stations that are not above grade T-D transfer stations, CountMR [98.236(r)(2)(iii)]	216
Average estimated time that each meter/regulator run at above grade metering-regulating stations that are not above grade T-D transfer stations was operational in the calendar year, Tw,avg (hours) [98.236(r)(2)(iv)]	8760
Annual CO2 emissions from above grade metering-regulating stations that are not above grade T-D transfer stations (mt CO2) [98.236(r)(2)(v)(A)]	0
Annual CH4 emissions from above grade metering-regulating stations that are not above grade T-D transfer stations (mt CH4) [98.236(r)(2)(v)(B)]	0.5

GasDistributionEmissionsFactorsRowDetails:

Component Type [98.236(q)(2)(i)]	Transmission-Distribution Transfer Station Components, Gas Service - Connector
Total number of surveyed component type identified as leaking, xp [98.236(q)(2)(ii)]	0
Average time the surveyed components are assumed to be leaking and operational, Tp,z (hours) [98.236(q)(2)(iii)]	0
CO2 Emissions (surveyed components identified as leaking only) (mt CO2) [98.236(q)(2)(iv)]	0
CH4 Emissions (surveyed components identified as leaking only) (mt CH4) [98.236(q)(2)(v)]	0
Component Type [98.236(q)(2)(i)]	Transmission-Distribution Transfer Station Components, Gas Service - Block Valve
Total number of surveyed component type identified as leaking, xp [98.236(q)(2)(ii)]	0
Average time the surveyed components are assumed to be leaking and operational, Tp,z (hours) [98.236(q)(2)(iii)]	0
CO2 Emissions (surveyed components identified as leaking only) (mt CO2) [98.236(q)(2)(iv)]	0

CH4 Emissions (surveyed components identified as leaking only) (mt CH4) [98.236(q)(2)(v)]	0
Component Type [98.236(q)(2)(i)]	Transmission-Distribution Transfer Station Components, Gas Service - Control Valve
Total number of surveyed component type identified as leaking, xp [98.236(q)(2)(ii)]	0
Average time the surveyed components are assumed to be leaking and operational, Tp,z (hours) [98.236(q)(2)(iii)]	0
CO2 Emissions (surveyed components identified as leaking only) (mt CO2) [98.236(q)(2)(iv)]	0
CH4 Emissions (surveyed components identified as leaking only) (mt CH4) [98.236(q)(2)(v)]	0
Component Type [98.236(q)(2)(i)]	Transmission-Distribution Transfer Station Components, Gas Service - Pressure Relief Valve
Total number of surveyed component type identified as leaking, xp [98.236(q)(2)(ii)]	0
Average time the surveyed components are assumed to be leaking and operational, Tp,z (hours) [98.236(q)(2)(iii)]	0
CO2 Emissions (surveyed components identified as leaking only) (mt CO2) [98.236(q)(2)(iv)]	0
CH4 Emissions (surveyed components identified as leaking only) (mt CH4) [98.236(q)(2)(v)]	0
Component Type [98.236(q)(2)(i)]	Transmission-Distribution Transfer Station Components, Gas Service - Orifice Meter
Total number of surveyed component type identified as leaking, xp [98.236(q)(2)(ii)]	0
Average time the surveyed components are assumed to be leaking and operational, Tp,z (hours) [98.236(q)(2)(iii)]	0
CO2 Emissions (surveyed components identified as leaking only) (mt CO2) [98.236(q)(2)(iv)]	0
CH4 Emissions (surveyed components identified as leaking only) (mt CH4) [98.236(q)(2)(v)]	0
Component Type [98.236(q)(2)(i)]	Transmission-Distribution Transfer Station Components, Gas Service - Regulator
Total number of surveyed component type identified as leaking, xp [98.236(q)(2)(ii)]	1
Average time the surveyed components are assumed to be leaking and operational, Tp,z (hours) [98.236(q)(2)(iii)]	8760
CO2 Emissions (surveyed components identified as leaking only) (mt CO2) [98.236(q)(2)(iv)]	0
CH4 Emissions (surveyed components identified as leaking only) (mt CH4) [98.236(q)(2)(v)]	0.13
Component Type [98.236(q)(2)(i)]	

	Transmission-Distribution Transfer Station Components, Gas Service - Open-ended line
Total number of surveyed component type identified as leaking, xp [98.236(q)(2)(ii)]	0
Average time the surveyed components are assumed to be leaking and operational, Tp,z (hours) [98.236(q)(2)(iii)]	0
CO2 Emissions (surveyed components identified as leaking only) (mt CO2) [98.236(q)(2)(iv)]	0
CH4 Emissions (surveyed components identified as leaking only) (mt CH4) [98.236(q)(2)(v)]	0

GasDistributionTDEstimatingEmissionsRowDetails:

Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Below Grade T-D Station, Gas Service, Inlet Pressure > 300 psig
Total number of emission source type, Counte [98.236(r)(1)(ii)]	0
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	0
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Below Grade T-D Station, Gas Service, Inlet Pressure 100 to 300 psig
Total number of emission source type, Counte [98.236(r)(1)(ii)]	6
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	0.2
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Below Grade T-D Station, Gas Service, Inlet Pressure < 100 psig
Total number of emission source type, Counte [98.236(r)(1)(ii)]	0
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	0

GasDistributionMREstimatingEmissionsRowDetails:

Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Below Grade M-R Station, Gas Service, Inlet Pressure > 300 psig
Total number of emission source type, Counte [98.236(r)(1)(ii)]	0
	8760

Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	0
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Below Grade M-R Station, Gas Service, Inlet Pressure 100 to 300 psig
Total number of emission source type, Counte [98.236(r)(1)(ii)]	31
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	1
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Below Grade M-R Station, Gas Service, Inlet Pressure < 100 psig
Total number of emission source type, Counte [98.236(r)(1)(ii)]	30
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	0.5

MainGasDistributionEstimatingEmissionsRowDetails:

Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Mains, Gas Service - Unprotected Steel
Total number of emission source type, Counte [98.236(r)(1)(ii)]	97
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	6.2
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	205.7
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Mains, Gas Service - Protected Steel
Total number of emission source type, Counte [98.236(r)(1)(ii)]	849
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	1.5
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	50
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Mains, Gas Service - Plastic
Total number of emission source type, Counte [98.236(r)(1)(ii)]	8353
	8760

Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	47.8
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	1587.6
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Mains, Gas Service - Cast Iron
Total number of emission source type, Counte [98.236(r)(1)(ii)]	0
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	0

ServicesGasDistributionEstimatingEmissionsRowDetails:

Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Services, Gas Service - Unprotected Steel
Total number of emission source type, Counte [98.236(r)(1)(ii)]	8271
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	8
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	264.3
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Services, Gas Service - Protected Steel
Total number of emission source type, Counte [98.236(r)(1)(ii)]	7243
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0.7
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	24.4
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Services, Gas Service - Plastic
Total number of emission source type, Counte [98.236(r)(1)(ii)]	420717
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760
CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	2.1
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	70.8
Emission Source Type (Eq. W-32A) [98.232] [98.233(r)(1)]	Distribution Services, Gas Service - Copper
Total number of emission source type, Counte [98.236(r)(1)(ii)]	749
Average estimated time that the emission source type was operational in the calendar year, Te (hours) [98.236(r)(1)(iii)]	8760

CO2 Emissions (mt CO2) [98.236(r)(1)(iv)]	0.1
CH4 Emissions (mt CH4) [98.236(r)(1)(v)]	3.8

CombustionEmissionsDetails:

mt CO2	444.0
mt CH4	0.00
mt N2O	0.000
Does the Facility have combustion units subject to reporting under 98.232?	Yes
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Are there external fuel combustion units with a rated heat capacity less than or equal to 5 mmBtu/hr? [98.236(z)(1)(i)]	Yes
Are there internal fuel combustion units that are not compressor-drivers, with a rated heat capacity less than or equal to 1 mmBtu/hr? [98.236(z)(1)(i)]	No
Total number of combustion units meeting 98.236(z)(1) descriptions	6
Are there external fuel combustion units with a rated heat capacity greater than 5 mmBtu/hr? [98.236(z)(2)(i)]	Yes
Are there internal fuel combustion units that are not compressor-drivers, with a rated heat capacity greater than 1 mmBtu/hr? [98.236(z)(2)(i)]	No
Are there Internal fuel combustion units of any heat capacity that are compressor-drivers? [98.236(z)(2)(i)]	No

LargeCombustionUnitEmissionsRowDetails:

Type of combustion unit [98.236(z)(2)(i)]	External fuel combustion units with a rated heat capacity greater than 5 mmBtu/hr
Type of fuel combusted [98.236(z)(2)(ii)]	Natural gas
Quantity of fuel combusted in calendar year [98.236(z)(2)(iii)]	10134
Unit of measure [98.236(z)(2)(iii)]	thousand standard cubic feet
CO2 Emissions (mt CO2) [98.236(z)(2)(iv)]	444
CH4 Emissions (mt CH4) [98.236(z)(2)(v)]	0
N2O Emissions (mt N2O) [98.236(z)(2)(vi)]	0

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Gas Information Details

Gas Name	Gas Quantity	Own Result?

Carbon Dioxide	3601473.1 (Metric Tons)	
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US State or Territory Covered	MN
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Name	Value	Times Substituted
AnnualVolumeGasReceived	93517889 (Mscf)	0
Industry Standard for Volume: ANSI standard		
Other Industry Standard for Volume:		

Name	Value	Times Substituted
AnnualVolumeGasStored	99008 (Mscf)	0

Name	Value	Times Substituted
AnnualVolumeLNGforDelivery	401277 (Mscf)	0

Name	Value	Times Substituted
AnnualVolumeGasfromStorageforDelivery	0 (Mscf)	0

Name	Value	Times Substituted
AnnualVolumeGasDeliveredtoOtherLDC/Pipe	0 (Mscf)	0

Name	Value	Times Substituted
AnnualVolumeGasBypassedCityGate	0 (Mscf)	0

Name	Value	Own Result?
NN1CO2MassTotal	5091072.7 (Metric Tons)	N

Name	Value	Own Result?
NN3CO2MassTotal	0 (Metric Tons)	N

Name	Value	Own Result?
NN4CO2MassTotal	1506043.0 (Metric Tons)	N

Name	Value	Own Result?
NN5aCO2MassTotal	-16443.4 (Metric Tons)	N

Name	Value	Own Result?
NN5bCO2MassTotal	0 (Metric Tons)	N

NN1 Equation Details:

Name	Value	Times Substituted
DevelopedHHV	1.026 (MMBtu/Mscf)	

Name	Value	Times Substituted
DevelopedEF	53.06 (kg CO2/MMBtu)	

Industry Standard for HHV: Other Industry Standard for HHV:

Industry Standard for EF: Other Industry Standard for EF:

NN3 Equation Details:

Name	Value	Times Substituted
DevelopedEF	0.0544 (MT CO2/Mscf)	

Industry Standard for EF:

NN4 Equation Details:

Name	Value	Times Substituted
DevelopedEF	0.0544 (MT CO2/Mscf)	

Industry Standard for EF:

NN5a Equation Details:

Name	Value	Times Substituted
DevelopedEF	0.0544 (MT CO2/Mscf)	

Industry Standard for EF:

NN5b Equation Details:

Name	Value	Times Substituted
DevelopedEF	0.0544 (MT CO2/Mscf)	

Industry Standard for EF:

Large End-User Details

Name: St Paul Park Refining Co LLC

Address: 360 3rd Ave W, Saint Paul Park, MN, 55071

Meter Number: 10007438, 711401, 712496

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	5795323 (Mscf)

Name: Waldorf Corporation/Rock-Tenn

Address: 2241 Wabash Ave, St. Paul, MN, 55114

Meter Number: 477095

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	2259551 (Mscf)

Name: American Crystal Sugar

Address: 2500 11th St N, Moorhead, MN, 56560

Meter Number: 684836

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	583647 (Mscf)

Name: High Bridge Combined Cycle Plant

Address: 155 Randolph Ave, St. Paul, MN, 55102

Meter Number: 925955, 684727

EIA Number: 1912

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	12825246 (Mscf)

Name: Mom Brands Company LLC

Address: 705 5th St W, Northfield, MN, 55057

Meter Number: 711058, 10011686

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	692302 (Mscf)

Name: 3M - MN

Address: 2400 Conway St, Maplewood, MN, 55119

Meter Number: 492363

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	1259105 (Mscf)

Name: District Energy of St Paul

Address: 76 Kellogg Blvd, St. Paul, MN, 55102

Meter Number: 1821905, 5125591, 5125592, 1309798

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	1964691 (Mscf)

Name: Gerdeau Ameristeel US Inc - MN

Address: 1678 Red Rock Road, St. Paul, MN, 55119

Meter Number: 1460104, 4635956

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	693997 (Mscf)

Name: American Crystal Sugar

Address: 1000 Business Highway 2, East Grand Forks, MN, 56721

Meter Number: 4617506

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	677339 (Mscf)

Name: University of Minnesota

Address: 1952 Commonwealth Ave, Falcon Heights, MN, 55108

Meter Number: 457488, 628573

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	473168 (Mscf)

Name: Busch Agri Resources Inc.

Address: 2101 26th St, Moorhead, MN, 56560

Meter Number: 000000520585

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Specific meter located at the facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	460245 (Mscf)

NG Delivery Details

Name: Residential consumers

Name	Value
VolumeofNaturalGas	34302118 (Mscf)

Name: Commercial consumers

Name	Value
VolumeofNaturalGas	19808250 (Mscf)

Name: Industrial consumers

Name	Value
VolumeofNaturalGas	25317330 (Mscf)

Name: Electricity generating facilities

Name	Value
VolumeofNaturalGas	14997910 (Mscf)

CERTIFICATE OF SERVICE

I, Paget Pengelly, hereby certify that I have this day served copies 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

DOCKET NO. G002/M-18-184
Miscellaneous Natural Gas Service List

Dated this 1st day of March 2019

/s/

Paget Pengelly

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 1800 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Corey	Conover	corey.conover@minneapolismn.gov	Minneapolis City Attorney	350 S. Fifth Street City Hall, Room 210 Minneapolis, MN 554022453	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
George	Crocker	gwillic@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
Ian	Dobson	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012130	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@mutilityinvestors.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

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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
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@briggs.com	Briggs And Morgan, P.A.	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
Peter	Madsen	peter.madsen@ag.state.mn.us	Office of the Attorney General-DOC	Bremer Tower, Suite 1800 445 Minnesota Street St. Paul, Minnesota 55101	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

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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
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Zev	Simpser	simpser.zev@dorsey.com	Dorsey	50 South Sixth Street Suite 1500 Minneapolis, MN 55402-1498	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
James M.	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	470 U.S. Bank Plaza 200 South Sixth Street Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Daniel P	Wolf	dan.wolf@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 551012147	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas

[illegible]

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_18-184_M-18-184
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_18-184_M-18-184

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Eric	Lipman	eric.lipman@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	No	OFF_SL_18-184_M-18-184
Peter	Madsen	peter.madsen@ag.state.mn.us	Office of the Attorney General-DOC	Bremer Tower, Suite 1800 445 Minnesota Street St. Paul, Minnesota 55101	Electronic Service	No	OFF_SL_18-184_M-18-184
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	OFF_SL_18-184_M-18-184
David	Moeller	dmoeller@allte.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_18-184_M-18-184
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_18-184_M-18-184

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Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.	76 W Kellogg Blvd St. Paul, MN 55102	Electronic Service	No	OFF_SL_18-184_M-18-184
Byron E.	Starns	byron.starns@stinson.com	Stinson Leonard Street LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_18-184_M-18-184
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Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_18-184_M-18-184
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_18-184_M-18-184
Lisa	Veith	lisa.veith@ci.stpaul.mn.us	City of St. Paul	400 City Hall and Courthouse 15 West Kellogg Blvd. St. Paul, MN 55102	Electronic Service	No	OFF_SL_18-184_M-18-184
Daniel P	Wolf	dan.wolf@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 551012147	Electronic Service	Yes	OFF_SL_18-184_M-18-184