



414 Nicollet Mall
Minneapolis, Minnesota 55401

March 1, 2016

—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-16-_____

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Petition and Compliance filing for approval of our July 2016-June 2017 State Energy Policy (SEP) Rider natural gas rate factor.

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) 330-6613 or amy.a.liberkowski@xcelenergy.com.

Sincerely,

/s/

AMY LIBERKOWSKI
MANAGER, REGULATORY ANALYSIS

Enclosures

c: Service List

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

Beverly Jones Heydinger	Chair
Nancy Lange	Commissioner
Dan Lipschultz	Commissioner
Matthew Schuerger	Commissioner
John Tuma	Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF A MODIFICATION
TO OUR NATURAL GAS SEP TARIFF,
2016 SEP RATE FACTOR, AND 2015
SEP COMPLIANCE FILING

DOCKET NO. G002/M-16-___

**PETITION AND
COMPLIANCE FILING**

OVERVIEW

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition requesting approval of our 2016 natural gas State Energy Policy (SEP) Rider rate factor, our 2015 Annual SEP compliance filing, and our proposed Customer Notice and Tariff update.

We propose a 2016 natural gas SEP rate factor of \$0.001368 per therm for the recovery of approximately \$1.3 million for the 12 month period of July 2016 – June 2017. If approved as proposed, average natural gas residential customers using 73.67 therms per month would pay approximately \$1.21 per year, compared to \$0.64 in the current 2015 SEP Period.

Historically, the three primary components of our SEP rate factor have been:

1. Expenses for the state Reliability Administrator (RA) and the development of State Building Guidelines (SBG) for the construction of new public facilities;
2. Expenses associated with the Company's natural gas Cast Iron Pipe Replacement program (applied to natural gas customers only); and
3. Mandated payments to the Prairie Island Indian Community (PIIC) in conjunction with the Company's Prairie Island nuclear generating facility.

This filing continues to reflect items 1 and 2 above. As a result of our recently concluded electric rate case (Docket No. E002/GR-13-868) revenue requirements associated with item 3 were rolled into base rates at the time final rates were

implemented. Therefore, this Petition does not include revenue requirements relating to mandated payments to the PIIC.

I. DESCRIPTION OF FILING

We provide the following information in this filing:

- Background Information;
- SEP Eligible Expenses;
- 2016 Natural Gas SEP Rate Factor;
- 2015 SEP True-Up; and
- Carbon Offsets.

In addition, we provide the following attachments to support our request.

Attachment	Description
Attachment A1	Proposed revision to the appropriate tariff sheet.
Attachment A2	Our 24-month forecast of SEP costs and rate factors 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 costs versus forecasted costs.
Attachment D1	Detailed Reliability Administrator and Sustainable Building Guidelines costs.
Attachment D2	Detailed cast iron replacement revenue requirements.
Attachment D3	Cast iron replacement 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 of the Company's 2014 data as reported to the EPA in March 2015.

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

- Minn. Stat. § 16B.325 (Sustainable Building Guidelines)
- Minn. Stat. § 216B.16, Subd. 1 (Rate Change Notice)
- Minn. Stat. § 216B.62, Subd. 3b. (Reliability Administrator)¹

¹ The original statute authorizing the Reliability Administrator (§ 216C.052, Subd. 2) was repealed by 2011 Minn. Laws Ch. 97 § 34. In the same legislative session, § 216B.62, Subd. 3b. was passed, authorizing the Assessment for Department Regional and National Duties through June 30, 2015. The assessment was renewed through June 30, 2017 during the 2015 legislative session. For consistency, we have continued to label these Reliability Administrator (RA) expenses.

- Minn. R. 7829.1300 (Miscellaneous Tariff Filings)
- Minn. R. 7829.0100 (Definitions)

II. SUMMARY OF FILING

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

III. 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 2015 SEP Rider filing.²

IV. 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

Alison C. Archer
Assistant General Counsel
Xcel Energy Services Inc.
414 Nicollet Mall – 5th Floor
Minneapolis, MN 55401
(612) 215-4662

² Docket No. G002/M-15-194.

C. Date of Filing and Proposed Effective Date of Rates

The date of this filing is March 1, 2016. The Company proposes the 2016 natural gas SEP rate factor be included in the Resource Adjustment line on the Company's retail natural gas billing rates effective July 1, 2016.

D. Statutes Controlling Schedule for Processing the Filing

The tariff change proposed in this Petition falls within the definition of a "Miscellaneous Tariff 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 tariff filing are due within 30 days of filing, with replies due 10 days thereafter.

E. Utility Employee Responsible for Filing

Amy Liberkowski
Manager, Regulatory Analysis
Xcel Energy Services Inc.
414 Nicollet Mall – 7th Floor
Minneapolis, Minnesota 55401
(612) 330-6613

V. BACKGROUND INFORMATION

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.

The Commission first approved recovery of costs associated with the replacement of remaining natural gas cast iron pipe on our system through the SEP rate factor in its November 25, 2008 Order in Docket No. E,G002/M-08-261 (November 25, 2008 Order).

The Commission subsequently directed the Company to provide the following information in future annual filings:³

- A comparison by month for the past twelve months of actual costs (revenue requirements) versus forecasted costs. (See Attachment C.)
- A discussion of reasons for deviations from budgeted amounts (both higher and lower).

³ September 23, 2010 Order, Docket No. E,G002/M-10-210 (September 23, 2010 Order).

- Specific cast iron project costs and related information.⁴
- Updated SEP Tracker schedules that identify beginning balances, current period transactions, and subsequent ending balances.

We provide a bridging schedule from our last natural gas rate case, and we confirm that our calculations in this filing reflect the rate of return approved by the Commission in that case.⁵ (See Attachment F.)

VI. SEP ELIGIBLE EXPENSES

There are three types of expenses currently included for recovery in the SEP Rider as eligible according to Minnesota statutes and Commission orders. They are discussed below.

A. Reliability Administrator (RA)

RA 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, analysis, or projects.

B. Sustainable Building Guidelines (SBG)

SBG costs result from the development of guidelines for the design of all new state buildings as defined in Minn. Stat. § 16B.325, with responsibility for the design guidelines shared by the Minnesota Department of Commerce, Division of Energy Resources and the Minnesota Department of Administration.

C. Greenhouse Gas Infrastructure Costs

In its November 25, 2008 Order, the Commission approved our proposed recovery of costs associated with replacement of cast iron pipe through the natural gas SEP rate factor.

VII. 2016 SEP RATE FACTOR AND CUSTOMER NOTICE

In this Section, we present our 2016 natural gas SEP Rider tariff and customer notice language, and we summarize the contents of our 2016 SEP rate factor.

⁴ This reporting requirement was discontinued by the Commission's June 3, 2013 Order in Docket No. E,G002/M-13-161 since construction is complete and there are no new projects to discuss.

⁵ Docket No. G002/GR-09-1153.

A. Proposed 2016 Rider 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, 2016, 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, 14th Revised Sheet No. 63 in both redline and clean versions.

We will submit a compliance filing in this docket containing the final 2016 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 2016 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 the costs of State energy-related mandates and greenhouse gas emissions reductions. The natural gas SEP portion of the Resource Adjustment increased to \$0.001368 per therm.

We will work with Commission Staff regarding this proposed customer notice in advance of implementation.

B. Proposed 2016 Natural Gas SEP Factor

Our proposed 2016 natural gas SEP rate factor compared to 2016 is as follows:

Gas	2015 Approved	2016 Forecast
Revenue Requirement	\$693,437	\$1,315,002
Rate/therm	0.000724	0.001368

If approved as proposed, average natural gas residential customers using 73.67 therms per month would pay approximately \$1.21 per year, compared to \$0.64 in the current

2015 SEP Period. We discuss the specific inputs to the natural gas rate factor calculations below.

A summary of 2016 SEP forecasted costs proposed for recovery and the calculation of our proposed natural gas SEP rate factor compared to our approved 2015 SEP costs are follows:

Table 2			
SEP Costs and Rate Factor			
Gas	2015 Approved	2016 Forecast	Difference
RA/SBG	33,524	31,557	(1,967)
Cast Iron	1,901,501	1,821,962	(79,539)
Cast Iron O&M Credit	(72,310)	(72,310)	0
Carryover	(1,169,279)	(466,208)	703,071
Revenue Requirement	693,437	1,315,002	621,565
Therms Sales	957,634,516	961,310,996	3,676,481
Factor	.000724	.001368	.000644

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

The monthly breakdown of our proposed 2016 natural gas SEP rate factor costs, sales, projected revenues, and anticipated Tracker balance is provided in Attachment B.⁶ In addition, we provide the projected revenue collections based on the gas sales forecast as Attachment D4 to this filing.⁷ These attachments provide period transactions, as well as beginning and ending Tracker balances, as specified in the Commission’s September 23, 2010 Order.

The costs and revenues included in the proposed natural gas 2016 SEP rate factor are not included for recovery under any other tariff rate or base rate.

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.

We have calculated our proposed natural gas SEP rate factor assuming all components are approved for eligibility, and are implemented effective July 1, 2016 to June 30, 2017. If actual implementation occurs after July 1, 2016, we propose that the

⁶ Includes interdepartmental sales.

⁷ Fall 2015 sales forecast.

2016 SEP Rider rate factor be adjusted to recover the approved program costs over the remaining months of the period, through June 30, 2017. This approach ensures that the cost recovery matches the approved eligible costs.

For a breakdown of the RA/SBG costs, please see Attachment D1.

C. Natural Gas Cast Iron Pipe Replacement Project

We completed replacement of 25 miles of cast iron pipe, and the replacement program concluded in 2012, 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.

The Minnesota jurisdictional total revenue requirements associated with this project for the 2016 SEP period is \$1.8 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. We additionally provide Attachment G, which describes the revenue requirements categories.

D. 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, 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.

An external consultant has reviewed and verified the accuracy of our filing through: (1) calculation of our revenue requirements and trackers; (2) reviewing the compliance of these calculations with corresponding Minnesota Statutes and Rules, and previous Commission Orders and Company filings; and (3) verifying that costs proposed to be recovered through the SEP rate factor are not being recovered under any other cost recovery mechanism.

VIII. 2015 SEP COMPLIANCE INFORMATION AND TRUE-UP

A. Tracker Balance Adjustments

The estimated true-up amount from the 2015-2016 SEP Tracker is \$(466,208). The primary driver of the true-up amount is the adjustment made for interdepartmental sales revenue collections and the implementation date of the 2014-2015 SEP rate, which was five months later than the implementation date used in the rate calculation.⁸

We note that this true-up adjustment is estimated, as we have used actual revenue, costs, and sales through December 2015, and forecasted the January through June 2016 period. Please see Attachment B to this filing for the supporting calculations.

B. Budget Deviations

The Commission's September 23, 2010 Order requires we provide a comparison by month for the past twelve months of actual natural gas costs versus forecasted costs as well as 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 2015 – December 2015) of actual natural gas costs (revenue requirements) to the budgeted (forecast) costs excluding carryover balances. Specific deviations are explained below.

The drivers of the differences between the past twelve months' actual and budgeted natural gas costs is that the RA/SBG costs were \$1,967 lower than forecasted. Cast iron pipe replacement costs were \$23,085 lower than forecasted. In summary, total actual costs for the past twelve month were \$25,052 lower than forecasted:

RA/SBG	(1,967)
Cast Iron	<u>(23,085)</u>
Net variance	(25,052)

In this same twelve-month period, revenue collections were \$425,508 higher than forecasted, which can also be attributed to the adjustment made for interdepartmental

⁸ We submitted Reply Comments on May 26, 2015 in Docket No. G002/M-15-194 which calculated the natural gas SEP rate with a July 1, 2015 implementation date. The rate was implemented on December 1, 2015 after receipt of the Commission's November 25, 2015 Order.

sales revenue collections and the implementation date of the 2014-2015 SEP rate, which was five months later than the implementation date used in the rate calculation.

IX. 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 Project.

We have not sold any carbon offsets or credits for greenhouse gas emissions associated with the natural gas Cast Iron Pipe Replacement project under the SEP Rider to-date. As a result, there are no carbon offsets and/or credits to report, or proceeds to credit to the SEP Rider tracker account.

In 2012, we began annual reporting to the U.S. Environmental Protection Agency (EPA) greenhouse gas emissions for all types of natural gas pipe material.⁹ 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 2014 as reported to the EPA in March 2015.

X. 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:

Alison C. Archer
Assistant General Counsel
Xcel Energy
414 Nicollet Mall, 5th floor
Minneapolis, Minnesota 55401
alison.c.archer@xcelenergy.com

SaGonna Thompson
Regulatory Administrator
Xcel Energy
414 Nicollet Mall, 7th Floor
Minneapolis, Minnesota 55401
regulatory.records@xcelenergy.com

Any information requests in this proceeding should be submitted to Ms. Thompson.

⁹ 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.

CONCLUSION

We respectfully request that the Commission approve our 2016 natural gas SEP Rate Rider rate factor as proposed in this Petition, our 2015 Annual SEP compliance filing, and our proposed Customer Notice and Tariff update.

Dated: March 1, 2016

Respectfully submitted by:

Northern States Power Company

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

Beverly Jones Heydinger
Nancy Lange
Dan Lipschultz
Matthew Schuerger
John Tuma

Chair
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,
2016 SEP RATE FACTOR, AND 2015
SEP COMPLIANCE FILING

DOCKET No. G002/M-16-____

**PETITION AND
COMPLIANCE FILING**

SUMMARY

Please take notice that on March 1, 2016, Northern States Power Company, doing business as Xcel Energy, filed with the Minnesota Public Utilities Commission a Petition for approval of our July 2016-June 2017 natural gas State Energy Policy (SEP) Rider rate factor, pursuant to Minn. Stat. §§ 16B.325, 216B.16, subd. 1, 216B.62 subd. 3b, and Minn. R. 7829.1300 and 7829.0100, and previous Commission Orders in our SEP Rider filings. The Company also submitted its Annual 2015 SEP Compliance Filing, including the calculation of the preliminary 2015 True-Up of costs and revenues recorded in the SEP Tracker Accounts as required in the November 25, 2008 ORDER ACCEPTING AND MODIFYING PETITION REGARDING STATE ENERGY POLICY RIDER in Docket No. E,G002/M-08-261.

State Energy Policy Rider 2016 Attachment Table of Contents

SEP Tariff Sheets and Rates

Attachment A1 – Tariff

Attachment A2 – Rate Factor: 2015-2017

Cost Recovery and SEP Rate Calculations

Attachment B – Tracker

Attachment C – Budget Deviation Analysis

Gas Tracker Detail

Attachment D1 – Tracker Detail - RA/SBG

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

~~13th~~14th 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	\$0.000724 <u>\$0.001368</u> per therm
Commercial	\$0.000724 <u>\$0.001368</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.

Clean

MINNESOTA GAS RATE BOOK - MPUC NO. 2

STATE ENERGY POLICY RATE RIDER

Section No. 5
14th 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	\$0.001368 per therm
Commercial	\$0.001368 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: 03-01-16

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

Effective Date:

Docket No. G002/M-16-

Order Date:

Gas Rate Factor				
	note	2015 Approved	2016 Forecast	2017 Forecast
Revenue Requirement	1	\$ 693,437	\$ 1,315,002	\$ 1,727,584
Forecasted Therms	2	957,634,516	961,310,996	939,378,616
Gas Rate/therm	3	0.000724	0.001368	0.001839
Implemented Rate/therm		0.000724	TBD	TBD
Residential bill impact / Month	4	\$ 0.05	\$ 0.10	\$ 0.14
Residential bill impact / Year	4	\$ 0.64	\$ 1.21	\$ 1.63

Notes:

- (1) For 2016 and 2017, refer to Gas Tracker (Attachment B) for supporting detail. For 2015, refer to Docket No. G002/M-15-194.
- (2) For 2016 and 2017, refer to Gas Tracker Detail: Revenue Collections (Attachment D4) for supporting detail. For 2015, refer to the Commission Order for Docket No. G002/M-15-194.
- (3) 2015 rate approved in Docket No. G002/M-15-194. For 2016 and 2017, rates are forecasted.
- (4) Assumes 884 therms per year which equates to 73.67 therms per month.

Gas Tracker

	Reference Attachment	Carryover Balance	Jul-12 Actual	Aug-12 Actual	Sep-12 Actual	Oct-12 Actual	Nov-12 Actual	Dec-12 Actual	Jan-13 Actual	Feb-13 Actual	Mar-13 Actual	Apr-13 Actual	May-13 Actual	Jun-13 Actual	Total-12 Actual
RA/SBG (1)	D1		\$ -	\$ -	\$ 6,008	\$ -	\$ -	\$ (8,212)	\$ -	\$ -	\$ 11,216	\$ -	\$ -	\$ 8,313	\$ 17,325
Cast Iron	D2		\$ 137,870	\$ 143,743	\$ 151,969	\$ 159,006	\$ 164,320	\$ 167,114	\$ 172,683	\$ 172,318	\$ 172,167	\$ 172,115	\$ 172,068	\$ 171,629	\$ 1,957,002
Cast Iron O&M Credit	D3		\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (6,063)	\$ (72,753)
Carryover from Prev Yr (2)		\$ 475,877	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 39,656	\$ 475,877
Revenue Requirements (3)			\$ 171,463	\$ 177,336	\$ 191,571	\$ 192,599	\$ 197,914	\$ 192,496	\$ 206,277	\$ 205,912	\$ 216,977	\$ 205,709	\$ 205,662	\$ 213,536	\$ 2,377,452
Revenue Collections (4)	D4		\$ 39,293	\$ 44,992	\$ 66,987	\$ 96,256	\$ 153,203	\$ 212,903	\$ 333,863	\$ 333,863	\$ 283,629	\$ 247,073	\$ 147,947	\$ 82,831	\$ 2,042,839
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ 132,170	\$ 204,515	\$ 389,099	\$ 485,442	\$ 530,152	\$ 509,746	\$ 382,160	\$ 254,209	\$ 187,556	\$ 146,193	\$ 203,908	\$ 334,613	\$ 334,613

	Reference Attachment	Carryover Balance	Jul-13 Actual	Aug-13 Actual	Sep-13 Actual	Oct-13 Actual	Nov-13 Actual	Dec-13 Actual	Jan-14 Actual	Feb-14 Actual	Mar-14 Actual	Apr-14 Actual	May-14 Actual	Jun-14 Actual	Total-13 Actual
RA/SBG (1)	D1		\$ -	\$ -	\$ 6,471	\$ -	\$ -	\$ (5,380)	\$ -	\$ -	\$ 8,089	\$ -	\$ -	\$ 11,548	\$ 20,729
Cast Iron	D2		\$ 171,186	\$ 170,727	\$ 170,269	\$ 169,811	\$ 169,353	\$ 168,894	\$ 167,868	\$ 167,433	\$ 166,999	\$ 166,564	\$ 166,129	\$ 165,694	\$ 2,020,928
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)		\$ 334,613	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 27,884	\$ 334,613
Revenue Requirements (3)			\$ 193,044	\$ 192,586	\$ 198,599	\$ 191,670	\$ 191,211	\$ 185,373	\$ 189,727	\$ 189,292	\$ 196,947	\$ 188,423	\$ 187,988	\$ 199,101	\$ 2,303,960
Revenue Collections (4)	D4		\$ 67,245	\$ 70,319	\$ 68,984	\$ 91,239	\$ 169,389	\$ 302,187	\$ 438,757	\$ 364,328	\$ 363,797	\$ 242,391	\$ 155,596	\$ 90,149	\$ 2,424,380
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ 125,799	\$ 122,267	\$ 129,615	\$ 100,430	\$ 21,823	\$ (116,814)	\$ (249,030)	\$ (175,036)	\$ (166,851)	\$ (53,968)	\$ 32,392	\$ 108,953	\$ (120,420)

	Reference Attachment	Carryover Balance	Jul-14 Actual	Aug-14 Actual	Sep-14 Actual	Oct-14 Actual	Nov-14 Actual	Dec-14 Actual	Jan-15 Actual	Feb-15 Actual	Mar-15 Actual	Apr-15 Actual	May-15 Actual	Jun-15 Actual	Total-14 Actual
RA/SBG (1)	D1		\$ -	\$ -	\$ 10,926	\$ -	\$ -	\$ 2,960	\$ -	\$ -	\$ 3,642	\$ -	\$ -	\$ 13,137	\$ 30,665
Cast Iron	D2		\$ 165,260	\$ 164,825	\$ 164,390	\$ 163,955	\$ 163,521	\$ 163,086	\$ 161,259	\$ 160,845	\$ 160,430	\$ 160,016	\$ 159,601	\$ 159,187	\$ 1,946,375
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)		\$ (120,420)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (10,035)	\$ (120,420)
Revenue Requirements (3)			\$ 149,199	\$ 148,764	\$ 159,256	\$ 147,895	\$ 147,460	\$ 149,985	\$ 145,198	\$ 144,784	\$ 148,012	\$ 143,955	\$ 143,541	\$ 156,263	\$ 1,784,311
Revenue Collections (4)	D4		\$ 71,882	\$ 56,922	\$ 59,361	\$ 82,810	\$ 130,778	\$ 1,385,934	\$ 296,717	\$ 255,530	\$ 292,994	\$ 189,378	\$ 109,266	\$ 97,752	\$ 3,029,325
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ 77,317	\$ 91,842	\$ 99,895	\$ 65,085	\$ 16,682	\$ (1,235,949)	\$ (151,519)	\$ (110,740)	\$ (144,983)	\$ (45,422)	\$ 34,275	\$ 58,511	\$ (1,245,014)

	Reference Attachment	Carryover Balance	Jul-15 Actual	Aug-15 Actual	Sep-15 Actual	Oct-15 Actual	Nov-15 Actual	Dec-15 Actual	Jan-16 Forecast	Feb-16 Forecast	Mar-16 Forecast	Apr-16 Forecast	May-16 Forecast	Jun-16 Forecast	Total-15 Act/Fest
RA/SBG (1)	D1		\$ -	\$ -	\$ 12,911	\$ -	\$ -	\$ 1,868	\$ -	\$ -	\$ 2,568	\$ -	\$ -	\$ 9,264	\$ 26,611
Cast Iron	D2		\$ 158,773	\$ 158,358	\$ 157,944	\$ 157,529	\$ 157,115	\$ 156,700	\$ 155,940	\$ 155,561	\$ 155,191	\$ 154,832	\$ 154,482	\$ 154,142	\$ 1,876,566
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)		\$ (1,245,014)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (103,751)	\$ (1,245,014)
Revenue Requirements (3)			\$ 48,996	\$ 48,581	\$ 61,078	\$ 47,752	\$ 47,338	\$ 48,791	\$ 46,163	\$ 45,794	\$ 47,983	\$ 45,055	\$ 44,705	\$ 53,629	\$ 585,854
Revenue Collections (4)	D4		\$ 97,466	\$ 85,412	\$ 88,900	\$ 90,860	\$ 132,683	\$ 161,745	\$ 109,576	\$ 92,383	\$ 72,567	\$ 54,122	\$ 33,946	\$ 32,403	\$ 1,052,062
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ (48,470)	\$ (36,831)	\$ (27,822)	\$ (43,107)	\$ (85,345)	\$ (112,954)	\$ (63,413)	\$ (46,599)	\$ (24,584)	\$ (9,067)	\$ 10,759	\$ 21,226	\$ (466,208)

	Reference Attachment	Carryover Balance	Jul-16 Forecast	Aug-16 Forecast	Sep-16 Forecast	Oct-16 Forecast	Nov-16 Forecast	Dec-16 Forecast	Jan-17 Forecast	Feb-17 Forecast	Mar-17 Forecast	Apr-17 Forecast	May-17 Forecast	Jun-17 Forecast	Total-16 Forecast
RA/SBG (1)	D1		\$ -	\$ -	\$ 9,105	\$ -	\$ -	\$ 10,620	\$ -	\$ -	\$ 2,568	\$ -	\$ -	\$ 9,264	\$ 31,557
Cast Iron	D2		\$ 153,812	\$ 153,492	\$ 153,182	\$ 152,882	\$ 152,592	\$ 152,312	\$ 151,823	\$ 151,071	\$ 150,714	\$ 150,365	\$ 150,024	\$ 149,692	\$ 1,821,962
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)		\$ (466,208)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (38,851)	\$ (466,208)
Revenue Requirements (3)			\$ 108,936	\$ 108,616	\$ 117,411	\$ 108,006	\$ 107,716	\$ 118,056	\$ 106,946	\$ 106,195	\$ 108,406	\$ 105,488	\$ 105,148	\$ 114,080	\$ 1,315,002
Revenue Collections (4)	D4		\$ 66,924	\$ 63,188	\$ 53,361	\$ 87,157	\$ 126,232	\$ 176,655	\$ 201,458	\$ 172,245	\$ 142,463	\$ 91,789	\$ 71,422	\$ 62,179	\$ 1,315,073
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ 42,012	\$ 87,439	\$ 151,489	\$ 172,338	\$ 153,823	\$ 95,223	\$ 711	\$ (65,339)	\$ (99,397)	\$ (85,697)	\$ (51,972)	\$ (71)	\$ (71)

	Reference Attachment	Carryover Balance	Jul-17 Forecast	Aug-17 Forecast	Sep-17 Forecast	Oct-17 Forecast	Nov-17 Forecast	Dec-17 Forecast	Jan-18 Forecast	Feb-18 Forecast	Mar-18 Forecast	Apr-18 Forecast	May-18 Forecast	Jun-18 Forecast	Total-17 Forecast
RA/SBG (1)	D1		\$ -	\$ -	\$ 9,105	\$ -	\$ -	\$ 10,620	\$ -	\$ -	\$ 2,568	\$ -	\$ -	\$ 9,264	\$ 31,557
Cast Iron	D2		\$ 149,369	\$ 149,055	\$ 148,749	\$ 148,451	\$ 148,163	\$ 147,883	\$ 147,264	\$ 146,575	\$ 146,228	\$ 145,887	\$ 145,555	\$ 145,229	\$ 1,768,407
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)		\$ (71)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (6)	\$ (71)
Revenue Requirements (3)			\$ 143,337	\$ 143,023	\$ 151,822	\$ 142,420	\$ 142,131	\$ 152,471	\$ 141,232	\$ 140,543	\$ 142,764	\$ 139,856	\$ 139,523	\$ 148,462	\$ 1,727,584
Revenue Collections (4)	D4		\$ 83,151	\$ 89,035	\$ 70,161	\$ 111,651	\$ 163,117	\$ 238,324	\$ 268,584	\$ 226,194	\$ 194,746	\$ 115,054	\$ 88,175	\$ 79,325	\$ 1,727,517
Carbon Offset Payments (5)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance (6) (7)			\$ 60,187	\$ 53,988	\$ 81,661	\$ 30,769	\$ (20,986)	\$ (85,853)	\$ (127,352)	\$ (85,651)	\$ (51,982)	\$ 24,802	\$ 51,348	\$ 69,136	\$ 66

Notes:

- RA/SBG actual expenses are for invoiced amounts. Refer to Attachment D1 for supporting detail for amounts beginning in 2015.
- The Carryover from Previous Year is the Balance (Revenue Requirements minus Revenue Collections) from the preceding year. That total is divided by 12 to spread the Carryover evenly throughout the year.
- Revenue Requirements are the total SEP revenue requirements for the year plus the Carryover from the previous year.
- Revenue Collections are actual through December 2015 and forecasts thereafter.
- The Company does not forecast any carbon offset payments related to the gas cast iron pipe project.
- 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.

State Energy Policy (SEP) Rider

Comparison by month of actual revenue requirements versus forecasted revenue requirements

Docket No. G002/M-16-___

2016 SEP Petition

Attachment C

Page 1 of 1

Gas Tracker

	2014-2015 SEP Period						2015-2016 SEP Period						
	Jan-15 <u>Actual</u>	Feb-15 <u>Forecast</u>	Mar-15 <u>Forecast</u>	Apr-15 <u>Forecast</u>	May-15 <u>Forecast</u>	Jun-15 <u>Forecast</u>	Jul-15 <u>Forecast</u>	Aug-15 <u>Forecast</u>	Sep-15 <u>Forecast</u>	Oct-15 <u>Forecast</u>	Nov-15 <u>Forecast</u>	Dec-15 <u>Forecast</u>	Total
Natural Gas Revenue Requirement: (Docket 15-194)	157,167	156,751	160,012	155,918	155,502	160,337	154,670	154,254	158,805	153,421	153,005	172,217	1,892,058
	Jan-15 <u>Actual</u>	Feb-15 <u>Actual</u>	Mar-15 <u>Actual</u>	Apr-15 <u>Actual</u>	May-15 <u>Actual</u>	Jun-15 <u>Actual</u>	Jul-15 <u>Actual</u>	Aug-15 <u>Actual</u>	Sep-15 <u>Actual</u>	Oct-15 <u>Actual</u>	Nov-15 <u>Actual</u>	Dec-15 <u>Actual</u>	Total
Natural Gas Revenue Requirement: (Docket 16-___)	155,233	154,819	158,047	153,990	153,576	166,298	152,747	152,332	164,829	151,503	151,089	152,542	1,867,006
Variance Forecast vs. actual-Gas	<u>1,933</u>	<u>1,932</u>	<u>1,966</u>	<u>1,928</u>	<u>1,926</u>	<u>-5,962</u>	<u>1,923</u>	<u>1,921</u>	<u>-6,024</u>	<u>1,918</u>	<u>1,916</u>	<u>19,674</u>	<u>25,052</u>

	2014-2015 SEP Period						2015-2016 SEP Period						
	Jan-15 <u>Actual</u>	Feb-15 <u>Forecast</u>	Mar-15 <u>Forecast</u>	Apr-15 <u>Forecast</u>	May-15 <u>Forecast</u>	Jun-15 <u>Forecast</u>	Jul-15 <u>Forecast</u>	Aug-15 <u>Forecast</u>	Sep-15 <u>Forecast</u>	Oct-15 <u>Forecast</u>	Nov-15 <u>Forecast</u>	Dec-15 <u>Forecast</u>	Total
Gas Revenue (1) (Docket 15-194)	296,717	262,900	230,935	172,308	117,969	94,720	33,734	38,269	25,833	41,974	67,134	90,701	1,473,195
	Jan-15 <u>Actual</u>	Feb-15 <u>Actual</u>	Mar-15 <u>Actual</u>	Apr-15 <u>Actual</u>	May-15 <u>Actual</u>	Jun-15 <u>Actual</u>	Jul-15 <u>Actual</u>	Aug-15 <u>Actual</u>	Sep-15 <u>Actual</u>	Oct-15 <u>Actual</u>	Nov-15 <u>Actual</u>	Dec-15 <u>Actual</u>	Total
Gas Revenue (Docket 16-___)	296,717	255,530	292,994	189,378	109,266	97,752	97,466	85,412	88,900	90,860	132,683	161,745	1,898,703
Variance Forecast vs. actual-Gas Revenues	<u>0</u>	<u>7,370</u>	<u>-62,060</u>	<u>-17,070</u>	<u>8,703</u>	<u>-3,032</u>	<u>-63,731</u>	<u>-47,143</u>	<u>-63,067</u>	<u>-48,885</u>	<u>-65,549</u>	<u>-71,044</u>	<u>-425,508</u>

Net Result -450,561

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

(1) Based on updated Attachment B2 filed in May 26, 2015 Reply Comments in Docket No. G002/M-15-194.

Gas Tracker Detail				
RA/SBG				
Part A: Monthly % of RA/SBG costs AS IF adjustment hadn't been made				
		RA/SBG Invoice	RA/SBG w/o Adjustment (1)	Monthly % w/o Adjustment (2)
Jan-15	Actual	-	-	
Feb-15	Actual	-	-	
Mar-15	Actual	3,642	3,642	8%
Apr-15	Actual	-	-	
May-15	Actual	-	-	
Jun-15	Actual	13,137	13,137	29%
Jul-15	Actual	-	-	
Aug-15	Actual	-	-	
Sep-15	Actual	12,911	12,911	29%
Oct-15	Actual	-	-	
Nov-15	Actual	-	-	
Dec-15	Actual	1,868	15,060	34%
Annual		\$ 31,557	\$ 44,750	
Part B: Forecast of Monthly Payments based on previous year's Invoice total * Monthly % w/o Adjustment				
		Previous Annual Invoice	Monthly % w/o Adjustment (2)	Monthly Payment
Jan-16	Forecast	\$ 31,557	0%	\$ -
Feb-16	Forecast	\$ 31,557	0%	\$ -
Mar-16	Forecast	\$ 31,557	8%	\$ 2,568
Apr-16	Forecast	\$ 31,557	0%	\$ -
May-16	Forecast	\$ 31,557	0%	\$ -
Jun-16	Forecast	\$ 31,557	29%	\$ 9,264
Jul-16	Forecast	\$ 31,557	0%	\$ -
Aug-16	Forecast	\$ 31,557	0%	\$ -
Sep-16	Forecast	\$ 31,557	29%	\$ 9,105
Oct-16	Forecast	\$ 31,557	0%	\$ -
Nov-16	Forecast	\$ 31,557	0%	\$ -
Dec-16	Forecast	\$ 31,557	34%	\$ 10,620
Jan-17	Forecast	\$ 31,557	0%	\$ -
Feb-17	Forecast	\$ 31,557	0%	\$ -
Mar-17	Forecast	\$ 31,557	8%	\$ 2,568
Apr-17	Forecast	\$ 31,557	0%	\$ -
May-17	Forecast	\$ 31,557	0%	\$ -
Jun-17	Forecast	\$ 31,557	29%	\$ 9,264
Jul-17	Forecast	\$ 31,557	0%	\$ -
Aug-17	Forecast	\$ 31,557	0%	\$ -
Sep-17	Forecast	\$ 31,557	29%	\$ 9,105
Oct-17	Forecast	\$ 31,557	0%	\$ -
Nov-17	Forecast	\$ 31,557	0%	\$ -
Dec-17	Forecast	\$ 31,557	34%	\$ 10,620
Jan-18	Forecast	\$ 31,557	0%	\$ -
Feb-18	Forecast	\$ 31,557	0%	\$ -
Mar-18	Forecast	\$ 31,557	8%	\$ 2,568
Apr-18	Forecast	\$ 31,557	0%	\$ -
May-18	Forecast	\$ 31,557	0%	\$ -
Jun-18	Forecast	\$ 31,557	29%	\$ 9,264

Notes

(1) An adjustment is made each December by the Department of Commerce so that the Company is paying only its required portion of indirect costs.

(2) In order to smooth the forecast the Company calculates the percentage of costs AS IF an adjustment had not been made and then applies that percentage to the annual invoice.

Gas Tracker Detail													
Cast Iron Replacement Revenue Requirement by Month													
Rate Base	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Annual-14
Rate Base													
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	1,080,964	1,110,217	1,139,470	1,168,723	1,197,976	1,227,228	1,256,481	1,285,734	1,314,987	1,344,240	1,373,492	1,402,745	1,402,745
Less Accum Deferred Taxes	764,477	781,309	798,141	814,973	831,805	848,637	865,469	882,301	899,133	915,965	932,797	949,629	936,634
End Of Month Rate Base	11,890,667	11,844,583	11,798,498	11,752,413	11,706,328	11,660,243	11,614,158	11,568,073	11,521,988	11,475,903	11,429,818	11,383,733	11,396,729
Average Rate Base (BOM/EOM)	11,913,710	11,867,625	11,821,540	11,775,455	11,729,370	11,683,286	11,637,201	11,591,116	11,545,031	11,498,946	11,452,861	11,406,776	11,663,492
Calculation of Return													
Plus Debt Return	22,140	22,054	21,968	21,883	21,797	21,711	21,625	21,539	21,453	21,367	21,281	21,195	261,249
Plus Equity Return	52,917	52,712	52,507	52,303	52,098	51,893	51,688	51,483	51,278	51,073	50,868	50,663	621,088
Total Return	75,056	74,766	74,476	74,185	73,895	73,605	73,418	73,141	72,864	72,587	72,310	72,033	882,336
Income Statement Items													
Plus Property Taxes	24,011	24,011	24,011	24,011	24,011	24,011	22,532	22,532	22,532	22,532	22,532	22,532	279,257
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	16,832	16,832	16,832	16,832	16,832	16,832	14,666	14,666	14,666	14,666	14,666	14,666	188,990
Plus Current Taxes	20,108	19,963	19,819	19,674	19,530	19,385	21,390	21,253	21,115	20,978	20,840	20,703	244,759
Total Income Statement Expense	90,203	90,059	89,914	89,770	89,626	89,481	87,841	87,704	87,566	87,429	87,292	87,154	1,064,039
Total Revenue Requirements	165,260	164,825	164,390	163,955	163,520	163,085	161,259	160,845	160,430	160,016	159,601	159,187	1,946,375
Jurisdictional Revenue Requirement	165,260	164,825	164,390	163,955	163,520	163,085	161,259	160,845	160,430	160,016	159,601	159,187	1,946,375

Rate Base	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Annual-15
Rate Base													
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	1,431,998	1,461,251	1,490,504	1,519,757	1,549,009	1,578,262	1,607,515	1,636,768	1,666,021	1,695,274	1,724,526	1,753,779	1,753,779
Less Accum Deferred Taxes	951,301	965,967	980,633	995,299	1,009,966	1,024,632	1,039,298	1,053,964	1,068,630	1,083,296	1,097,962	1,112,628	1,078,616
End Of Month Rate Base	11,352,810	11,308,891	11,264,971	11,221,052	11,177,133	11,133,214	11,089,295	11,045,376	11,001,457	10,957,538	10,913,619	10,869,700	10,903,713
Average Rate Base (BOM/EOM)	11,374,769	11,330,850	11,286,931	11,243,012	11,199,093	11,155,174	11,111,255	11,067,336	11,023,417	10,979,498	10,935,579	10,891,660	11,140,189
Calculation of Return													
Plus Debt Return	21,328	21,245	21,163	21,081	20,998	20,916	20,834	20,752	20,670	20,588	20,506	20,424	250,103
Plus Equity Return	50,428	50,233	50,039	49,844	49,649	49,454	49,259	49,064	48,869	48,674	48,479	48,284	591,557
Total Return	71,756	71,479	71,202	70,925	70,648	70,371	70,094	69,817	69,540	69,263	68,986	68,709	841,660
Income Statement Items													
Plus Property Taxes	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	270,384
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	14,666	14,666	14,666	14,666	14,666	14,666	12,657	12,657	12,657	12,657	12,657	12,657	163,942
Plus Current Taxes	20,566	20,428	20,291	20,154	20,016	19,879	21,672	21,547	21,424	21,301	21,178	21,055	249,547
Total Income Statement Expense	87,017	86,879	86,742	86,605	86,467	86,330	86,115	85,899	85,686	85,473	85,260	85,047	1,034,906
Total Revenue Requirements	158,773	158,358	157,944	157,529	157,115	156,700	155,940	155,361	154,782	154,203	153,624	153,045	1,876,566
Jurisdictional Revenue Requirement	158,773	158,358	157,944	157,529	157,115	156,700	155,940	155,361	154,782	154,203	153,624	153,045	1,876,566

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
Rate Base													
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	1,870,791	1,900,044	1,929,297	1,958,550	1,987,803	2,017,056	2,046,309	2,075,562	2,104,815	2,104,815
Less Accum Deferred Taxes	1,083,942	1,088,195	1,092,448	1,096,701	1,100,954	1,105,207	1,109,460	1,113,713	1,117,966	1,122,219	1,126,472	1,130,725	1,122,340
End Of Month Rate Base	10,869,135	10,835,628	10,802,121	10,768,614	10,735,107	10,701,600	10,668,093	10,634,586	10,601,079	10,567,572	10,534,065	10,500,558	10,407,955
Average Rate Base (BOM/EOM)	10,886,424	10,852,382	10,818,340	10,784,298	10,750,256	10,716,214	10,682,172	10,648,130	10,614,088	10,580,046	10,546,004	10,511,962	10,660,988
Calculation of Return													
Plus Debt Return	20,321	20,258	20,196	20,134	20,072	20,010	19,948	19,886	19,824	19,762	19,700	19,638	239,928
Plus Equity Return	48,082	47,931	47,780	47,629	47,478	47,327	47,176	47,025	46,874	46,723	46,572	46,421	565,197
Total Return	68,403	68,189	67,982	67,781	67,580	67,379	67,178	66,977	66,776	66,575	66,374	66,173	805,125
Income Statement Items													
Plus Property Taxes	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	270,384
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	12,657	12,657	12,657	12,657	12,657	12,657	10,962	10,962	10,962	10,962	10,962	10,962	141,715
Plus Current Taxes	20,967	20,861	20,755	20,649	20,543	20,437	21,971	21,823	21,675	21,527	21,379	21,231	253,706
Total Income Statement Expense	85,409	85,303	85,200	85,101	85,005	84,912	84,718	84,524	84,330	84,136	83,942	83,748	1,016,838
Total Revenue Requirements	153,812	153,492	153,182	152,882	152,592	152,312	151,823	151,071	150,714	150,357	150,000	149,643	1,821,962
Jurisdictional Revenue Requirement	153,812	153,492	153,182	152,882	152,592	152,312	151,823	151,071	150,714	150,357	150,000	149,643	1,821,962

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
Rate Base													
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	1,227,965	1,231,659	1,235,353	1,239,047	1,242,741	1,246,435	1,250,129	1,253,823	1,257,517	1,261,211	1,264,905	1,268,599	1,268,599
End Of Month Rate Base	10,374,077	10,341,130	10,308,183	10,275,236	10,242,289	10,209,342	10,176,395	10,143,448	10,110,501	10,077,554	10,044,607	10,011,660	9,930,995
Average Rate Base (BOM/EOM)	10,391,016	10,357,604	10,324,192	10,290,780	10,257,368	10,223,956	10,190,544	10,157,132	10,123,720	10,090,308	10,056,896	10,023,484	10,176,751
Calculation of Return													
Plus Debt Return	19,570	19,507	19,444	19,381	19,318	19,255	19,192	19,129	19,066	19,003	18,940	18,877	229,995
Plus Equity Return	45,894	45,746	45,603	45,460	45,317	45,174	45,031	44,888	44,745	44,602	44,459	44,316	539,368
Total Return	65,463	65,253	65,048	64,849	64,656	64,463	64,270	64,077	63,884	63,691	63,498	63,305	769,363
Income Statement Items													
Plus Property Taxes	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	22,532	270,384
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	10,962	10,962	10,962	10,962	10,962	10,962	9,647	9,647	9,647	9,647	9,647	9,647	123,654
Plus Current Taxes	21,159	21,055	20,954	20,855	20,760	20,667	21,798	21,570	21,455	21,340	21,225	21,110	253,973
Total Income Statement Expense	83,906	83,802	83,700	83,602	83,507	83,414	83,230	83,046	82,86				

Gas Tracker Detail
Cast Iron Replacement Revenue Requirement by Year (July - June)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rate Base										
Plus CWIP Ending Balance	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
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
Less Accum Deferred Taxes	104	31,775	117,324	296,641	531,982	747,645	936,634	1,078,616	1,223,340	1,349,267
End Of Month Rate Base	74,429	1,578,540	5,946,022	10,118,095	12,503,449	11,936,752	11,396,729	10,903,713	10,407,955	9,930,995
Average Rate Base (BOM/EOM)	3,101	1,241,969	4,103,512	8,400,586	12,097,994	12,216,681	11,663,492	11,140,189	10,664,088	10,176,751
Calculation of Return										
Plus Debt Return	103	38,829	120,101	233,763	303,346	278,611	261,249	250,103	239,928	229,995
Plus Equity Return	157	64,177	216,849	446,979	642,934	649,295	621,088	591,557	565,197	539,368
Total Return	260	103,005	336,950	680,742	946,280	927,907	882,336	841,660	805,125	769,362
Income Statement Items										
Plus Property Taxes	0	11,491	44,887	117,456	228,825	288,830	279,257	270,384	270,384	270,384
Plus Book Depreciation	79	32,496	108,665	226,174	333,264	351,034	351,034	351,034	351,034	351,034
Plus Deferred Taxes	104	31,672	85,548	179,317	235,341	215,663	188,990	163,942	141,715	123,654
Plus Current Taxes	5	12,955	65,757	132,542	213,293	237,495	244,759	249,547	253,706	253,973
Total Income Statement Expense	188	88,613	304,858	655,489	1,010,722	1,093,022	1,064,039	1,034,906	1,016,838	999,045
Total Revenue Requirements	447	191,619	641,808	1,336,231	1,957,002	2,020,928	1,946,375	1,876,566	1,821,962	1,768,407
MN Jurisdictional Revenue Requirement	447	191,619	641,808	1,336,231	1,957,002	2,020,928	1,946,375	1,876,566	1,821,962	1,768,407

Notes

Updates to 2014-2015 balances approved in Docket No. G002/M-15-194 (2015 SEP Filing) result from (1) revised MN Composite Income Tax Rates based upon 2014 income tax returns, effective January 1, 2014 and (2) property tax update for 2015 based on ratio of actual paid taxes in 2015 and the value of property as of year end 2013.

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 2015 and Forecast Revenues (Therm Sales * Gas Factor) through June 2018

2011 Rider Year	Jul-11 Actual	Aug-11 Actual	Sep-11 Actual	Oct-11 Actual	Nov-11 Actual	Dec-11 Actual	Jan-12 Actual	Feb-12 Actual	Mar-12 Actual	Apr-12 Actual	May-12 Actual	Jun-12 Actual	Total-11
Revenue Collections	\$ 22,556	\$ 21,187	\$ 23,115	\$ 28,238	\$ 44,917	\$ 93,697	\$ 176,053	\$ 164,963	\$ 139,492	\$ 74,616	\$ 61,204	\$ 44,821	\$ 894,859
2012 Rider Year	Jul-12 Actual	Aug-12 Actual	Sep-12 Actual	Oct-12 Actual	Nov-12 Actual	Dec-12 Actual	Jan-13 Actual	Feb-13 Actual	Mar-13 Actual	Apr-13 Actual	May-13 Actual	Jun-13 Actual	Total-12
Revenue Collections	\$ 39,293	\$ 44,992	\$ 66,987	\$ 96,256	\$ 153,203	\$ 212,903	\$ 333,863	\$ 333,863	\$ 283,629	\$ 247,073	\$ 147,947	\$ 82,831	\$ 2,042,839
2013 Rider Year	Jul-13 Actual	Aug-13 Actual	Sep-13 Actual	Oct-13 Actual	Nov-13 Actual	Dec-13 Actual	Jan-14 Actual	Feb-14 Actual	Mar-14 Actual	Apr-14 Actual	May-14 Actual	Jun-14 Actual	Total-13
Revenue Collections	\$ 67,245	\$ 70,319	\$ 68,984	\$ 91,239	\$ 169,389	\$ 302,187	\$ 438,757	\$ 364,328	\$ 363,797	\$ 242,391	\$ 155,596	\$ 90,149	\$ 2,424,380
2014 Rider Year	Jul-14 Actual	Aug-14 Actual	Sep-14 Actual	Oct-14 Actual	Nov-14 Actual	Dec-14 Actual	Jan-15 Actual	Feb-15 Actual	Mar-15 Actual	Apr-15 Actual	May-15 Actual	Jun-15 Actual	Total-14
Revenue Collections	\$ 71,882	\$ 56,922	\$ 59,361	\$ 82,810	\$ 130,778	\$ 1,385,934	\$ 296,717	\$ 255,530	\$ 292,994	\$ 189,378	\$ 109,266	\$ 97,752	\$ 3,029,325
2015 Rider Year	Jul-15 Actual	Aug-15 Actual	Sep-15 Actual	Oct-15 Actual	Nov-15 Actual	Dec-15 Actual	Jan-16 Forecast	Feb-16 Forecast	Mar-16 Forecast	Apr-16 Forecast	May-16 Forecast	Jun-16 Forecast	Total-15
Forecast Sales Rate							151,347,521 0.000724	127,600,780 0.000724	100,230,036 0.000724	74,754,079 0.000724	46,886,782 0.000724	44,755,872 0.000724	
Revenue Collections	\$ 97,466	\$ 85,412	\$ 88,900	\$ 90,860	\$ 132,683	\$ 161,745	\$ 109,576	\$ 92,383	\$ 72,567	\$ 54,122	\$ 33,946	\$ 32,403	\$ 1,052,062
2016 Rider Year	Jul-16 Forecast	Aug-16 Forecast	Sep-16 Forecast	Oct-16 Forecast	Nov-16 Forecast	Dec-16 Forecast	Jan-17 Forecast	Feb-17 Forecast	Mar-17 Forecast	Apr-17 Forecast	May-17 Forecast	Jun-17 Forecast	Total-16
Forecast Sales Rate	48,921,048 0.001368	46,190,145 0.001368	39,006,343 0.001368	63,710,909 0.001368	92,274,518 0.001368	129,133,880 0.001368	147,264,864 0.001368	125,910,182 0.001368	104,139,841 0.001368	67,097,227 0.001368	52,209,232 0.001368	45,452,807 0.001368	961,310,996
Revenue Collections	\$ 66,924	\$ 63,188	\$ 53,361	\$ 87,157	\$ 126,232	\$ 176,655	\$ 201,458	\$ 172,245	\$ 142,463	\$ 91,789	\$ 71,422	\$ 62,179	\$ 1,315,073
2017 Rider Year	Jul-17 Forecast	Aug-17 Forecast	Sep-17 Forecast	Oct-17 Forecast	Nov-17 Forecast	Dec-17 Forecast	Jan-18 Forecast	Feb-18 Forecast	Mar-18 Forecast	Apr-18 Forecast	May-18 Forecast	Jun-18 Forecast	Total-17
Forecast Sales Rate	45,215,131 0.001839	48,414,825 0.001839	38,151,655 0.001839	60,712,719 0.001839	88,698,776 0.001839	129,594,549 0.001839	146,048,781 0.001839	122,998,575 0.001839	105,898,009 0.001839	62,563,185 0.001839	47,947,283 0.001839	43,135,126 0.001839	939,378,616
Revenue Collections	\$ 83,151	\$ 89,035	\$ 70,161	\$ 111,651	\$ 163,117	\$ 238,324	\$ 268,584	\$ 226,194	\$ 194,746	\$ 115,054	\$ 88,175	\$ 79,325	\$ 1,727,517

Base Assumptions - Gas Cast Iron Pipe

Capital Structure	Actual 2014			Actual 2015			Budget 2016		
	Percent	Cost	Weighted Cost	Percent	Cost	Weighted Cost	Percent	Cost	Weighted Cost
Long Term Debt %	45.47%	4.89%	2.22%	46.15%	4.85%	2.24%	46.24%	4.81%	2.22%
Short Term Debt %	1.66%	0.65%	0.01%	1.09%	0.93%	0.01%	1.26%	1.84%	0.02%
Preferred Stock %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Common Stock %	52.87%	10.09%	5.33%	52.76%	10.09%	5.32%	52.50%	10.09%	5.30%
	100.00%		7.56%	100.00%		7.57%	100.00%		7.54%

Income Tax Rates		2014	2015	2016		2014	2015	2016
Income Tax Rates	MN Jur	9.8000%	9.8000%	9.8000%	Federal	35.0000%	35.0000%	35.0000%
MN Composite Income Tax Rate	MN Jur	41.3700%	41.3700%	41.3700%	MN Co	40.8029%	40.7980%	40.7980%

Property Tax Rates		2014	2015	2016
Property Tax Rate = Goodhue	100.00 % Taxable	1.820%	1.743%	1.743%
Property Tax Rate = Ramsey	100.00 % Taxable	2.166%	2.027%	2.027%
Property Tax Rate = Rice	100.00 % Taxable	1.658%	1.715%	1.715%
Property Tax Rate = Stearns	100.00 % Taxable	1.839%	1.825%	1.825%
Property Tax Rate = Washington	100.00 % Taxable	1.911%	1.785%	1.785%
Property Tax Rate = Winona	100.00 % Taxable	1.545%	1.486%	1.486%

State of MN Allocator		Total	Minnesota Company	Minnesota
Gas Distribution				
Direct Assigned - Minnesota		100.00000%	100.0000%	100.0000%

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)

Docket No. G002/GR-09-1153
Exhibit____(AEH-1), Schedule 3A
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Line No.	Description	Unadjusted	Projected	CIAC 2004	CIAC 2007	CIAC 2010	SEP	New Area	Income	Adjusted
			Gas Storage	Rate Case Adjustment	Rate Case Adjustment	Rate Case Adjustment	Rider Adjustment			
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	
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)

Docket No. G002/GR-09-1153
 Exhibit (AEH-1), Schedule 3A
 Page 2 of 3

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 Dvp & 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)

Docket No. G002/GR-09-1153
 Exhibit (AEH-1), Schedule 3A
 Page 3 of 3

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										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	\$366	\$63	(\$138)	\$12	\$0	(\$602)	(\$2)	(\$312)	\$5	\$29,263
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	(\$625)	(\$108)	\$236	(\$20)	\$0	\$1,027	\$3	\$532	\$48	\$16,220
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	13,250
	Operating Income After Adjustments	625	108	(236)	20	0	(1,027)	(3)	(532)	(11)	57,656
	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 2016 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, 2017. 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 2016 book depreciation reserve for the natural gas Cast Iron Pipe Replacement project, the \$2,104,813 shown on Attachment D2 of this filing reflect the amount of the plant in service that has been recovered as of June 30, 2017, which results in a decrease to rate base. Standard ratemaking methodology calls for the exclusion of this credit balance in an asset account (contra-asset) from plant in service 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 2016 accumulated deferred taxes for the natural gas Cast Iron Pipe Replacement project, the \$1,223,340 shown on Attachment D2 of this filing reflects the accumulation of tax timing differences between book and tax depreciation through June 2017, which results in a decrease to rate base. The ADIT deduction from rate base has been developed in accordance with IRS tax regulation Sec. 1.167(l). The regulation requires the use of a pro-rate schedule for accumulated deferred income taxes used to reduce rate base to comply with

the tax normalization requirements of the Code when forecast information is used to set rates. Standard ratemaking methodology calls for the exclusion of this timing related asset 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 2016 debt return for the natural gas Cast Iron Pipe Replacement project, the \$239,928 shown on Attachment D2 of this filing reflect the amount of debt return the Company is allowed for July 2016 - June 2017 based on the overall cost of capital approved.

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 2016 equity return for the Gas natural gas Cast Iron Pipe Replacement project, the \$565,197 shown on Attachment D2 of this filing reflect the amount of return on equity the Company is allowed for July 2016 - June 2017 based on the overall cost of capital. The return on equity was approved in the most recent natural gas rate filing (Docket No. G002/GR-09-1153).

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 call for the inclusion of these items in the calculation of revenue requirements.

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, then paid the following year. In the specific case of the annual 2016 property tax amount for the natural gas Cast Iron Pipe Replacement project, the \$270,384 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 2016 for the plant in service as of December 31, 2016, plus one-half of calendar year 2017. We reflect one half of

each year, since the 2016-2017 SEP 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 2016 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 2016 - June 2017 and results in an increase to revenue requirements.

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 2016 deferred taxes for the natural gas Cast Iron Pipe Replacement project, the \$141,715 shown on Attachment D2 reflects the July 2016 - June 2017 tax timing difference when book expense differs from tax expense and results in an increase to revenue requirements.

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 2016 current taxes for the natural gas Cast Iron Pipe Replacement project, the \$ 253,706 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: 2014

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): 48339.4

CO2 equivalent emissions from supplier subparts LL-QQ (metric tons): 4205068.4

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

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2014-01-01

GHG Report End Date: 2014-12-31

Description of Changes to Calculation Methodology:

Did you use BAMB in this reporting year as a result of becoming newly subject to a Part 98 subpart due to amendments to global warming potentials (Table A-1 of Part 98) finalized on November 29, 2013? N

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 INC

Address: 414 Nicollet Mall, Minneapolis, MN 55401

Percent Ownership Interest: 100

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		1911.53 (Metric Tons)	
Nitrous Oxide		0.001 (Metric Tons)	
Carbon Dioxide		550.9 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	8
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Industry Segment Name	Natural gas distribution [98.230(a)(8)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	92853.534
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	550.9
Total Reported CH4 Emissions (mt CO2e)	47788.3
Total Reported N2O Emissions (mt CO2e)	0.3
Total Reported Emissions (mt CO2e)	48339.5

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0

Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	57.6
Total Reported CH4 Emissions (mt CO2e)	47788.1
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	47845.7
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas

	Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	493.3
Total Reported CH4 Emissions (mt CO2e)	0.2
Total Reported N2O Emissions (mt CO2e)	0.3
Total Reported Emissions (mt CO2e)	493.8
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the facility have any equipment leaks subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

ComponentCountMethodologyOneRowDetails:

Major Equipment Type [98.236(c)(15)(ii)(B)]	Wellheads
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Separators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Meters/piping
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Compressors
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	In-line heaters
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Dehydrators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Heater-treater

Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Header
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	

LocalDistributionCompaniesDetails:

mt CO2	57.6
mt CH4 (mt CO2e)	47788.1
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	47845.7
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	N/A
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of above grade T-D transfer stations [98.236(c)(16)(i)]	42
Number of years over which all T-D transfer stations will be monitored at least once [98.236(c)(16)(ii)]	2
Number of T-D stations monitored in calendar year [98.236(c)(16)(iii)]	39
Total number of below grade T-D transfer stations [98.236(c)(16)(iv)]	16
Total number of above grade metering-regulating stations (this count will include above grade T-D transfer stations) [98.236(c)(16)(v)]	232
Total number of below grade metering-regulating stations (this count will include below grade T-D transfer stations) [98.236(c)(16)(vi)]	74
Annual CO2 emissions from all above grade T-D transfer stations combined (mt CO2) [98.236(c)(16)(xvii)]	0.0
Annual CH4 emissions from all above grade T-D transfer stations combined (mt CO2e) [98.236(c)(16)(xvii)]	0.0
Annual CO2 emissions from all below grade T-D transfer stations combined (mt CO2) [98.236(c)(16)(xviii)]	0.0
Annual CH4 emissions from all below grade T-D transfer stations combined (mt CO2e) [98.236(c)(16)(xviii)]	13.5
Annual CO2 emissions from all above grade metering-regulating stations (including T-D transfer stations) combined (mt CO2) [98.236(c)(16)(xix)]	0.0
Annual CH4 emissions from all above grade metering-regulating stations (including T-D transfer stations) combined (mt CO2e) [98.236(c)(16)(xix)]	0.0
	0.1

Annual CO2 emissions from all below grade metering-regulating stations (including T-D transfer stations) combined (mt CO2) [98.236(c)(16)(xx)]	
Annual CH4 emissions from all below grade metering-regulating stations (including T-D transfer stations) combined (mt CO2e) [98.236(c)(16)(xx)]	47.5
Annual CO2 emissions from all distribution mains combined (mt CO2) [98.236(c)(16)(xxi)]	50.3
Annual CH4 emissions from all distribution mains combined (mt CO2e) [98.236(c)(16)(xxi)]	41753.8
Annual CO2 emissions from all distribution services combined (mt CO2) [98.236(c)(16)(xxii)]	7.2
Annual CH4 emissions from all distribution services combined (mt CO2e) [98.236(c)(16)(xxii)]	5986.8
Leak factor for meter/regulator run developed in Equation W-32 of §98.233 [98.236(c)(16)(viii)]	0
Number of miles of unprotected steel distribution mains (W-31) [98.236(c)(16)(ix)]	36
Number of miles of protected steel distribution mains (W-31) [98.236(c)(16)(x)]	952
Number of miles of plastic distribution mains (W-31) [98.236(c)(16)(xi)]	8092
Number of miles of cast iron distribution mains (W-31) [98.236(c)(16)(xii)]	0
Number of unprotected steel distribution services (W-31) [98.236(c)(16)(xiii)]	4716
Number of protected steel distribution services (W-31) [98.236(c)(16)(xiv)]	5848
Number of plastic distribution services (W-31) [98.236(c)(16)(xv)]	389841
Number of copper distribution services (W-31) [98.236(c)(16)(xvi)]	699

CombustionEmissionsDetails:

mt CO2	493.3
mt CH4 (mt CO2e)	0.2
mt N2O (mt CO2e)	0.3
Total Emissions (mt CO2e)	493.8
Does the Facility have combustion emissions subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	N/A
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

ExternalFuelHeatCapacityLessThanSpecifiedValueRowDetails:

Type of Unit [98.236(c)(19)(i)]	Process heaters
---------------------------------	-----------------

Number of Units [98.236(c)(19)(i)]	5
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ExternalFuelHeatCapacityGreaterThanSpecifiedValueRowDetails:

Type of Unit [98.236(c)(19)(ii)]	Process heaters
Number of Units [98.236(c)(19)(ii)]	1
CO2 Emissions (mt CO2) [98.236(c)(19)(iii)]	493.3
CH4 Emissions (mt CO2e) [98.236(c)(19)(iii)]	0.2
N2O Emissions (mt CO2e) [98.236(c)(19)(iii)]	0.3

ExternalFuelTypeHeatCapacityGreaterThanSpecifiedValueRowDetails:

Type of fuel combusted [98.236(c)(19)(iv)]	Pipeline gas
Cumulative volume of fuel combusted [98.236(c)(19)(iv)]	9062000
Fuel Volume Units [98.236(c)(19)(iv)]	std. cubic ft

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Gas Information Details

Gas Name	Gas Quantity	Own Result?
Carbon Dioxide	4205068.4 (Metric Tons)	

Name	Value	Times Substituted
AnnualVolumeGasReceived	92853534 (Mscf)	0
Industry Standard for Volume: Industry standard practices		
Other Industry Standard for Volume:		

Name	Value	Times Substituted
AnnualVolumeGasStored	858707 (Mscf)	0

Name	Value	Times Substituted
AnnualVolumeLNGforDelivery	1153864 (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	5054905.5 (Metric Tons)	N

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

Name	Value	Own Result?
NN4CO2MassTotal	865893.6 (Metric Tons)	N

Name	Value	Own Result?
NN5aCO2MassTotal	-16056.5 (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: Malt O Meal

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

Meter Number: 711058, 684369

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Large end-user's facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	695863 (Mscf)

Name: St Paul Park Refining Co

Address: 360 3rd Ave, St Paul Park, MN, 55071

Meter Number: 10007438, 711401, 712496

EIA Number:

Total quantity of natural gas reported is the total quantity delivered to: Large end-user's facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	4857267 (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	2256003 (Mscf)

Name: American Crystal Sugar

Address: 2500 11th St , 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	504578 (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: Large end-user's facility

Name	Value
AnnualVolumeGasDeliveredtoMeter	7130619.935 (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: Large end-user's facility

Name	Value

AnnualVolumeGasDeliveredtoMeter	472830 (Mscf)
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NG Delivery Details

Name: Residential consumers

Name	Value
VolumeofNaturalGas	40552201 (Mscf)

Name: Commercial consumers

Name	Value
VolumeofNaturalGas	22227846 (Mscf)

Name: Industrial consumers

Name	Value
VolumeofNaturalGas	24632221 (Mscf)

Name: Electricity generating facilities

Name	Value
VolumeofNaturalGas	7726658 (Mscf)

**Subpart W: Petroleum and Natural Gas Systems -
Reporting Years 2011, 2012 and 2013 Deferred
Data**

SubpartWDeferredSummaryDetails:

Industry Segment Number	8
Industry Segment Name	Natural gas distribution [98.230(a)(8)]
Reporting Period:	2011
Location and name of original Subpart W Form	C:\Users\HRMJ07 \Desktop\eGGRTSubWDeferred\RY11_13 Sub W Reports\2011 Subpart+W+Integrated+Reporting+Form_NSMP.xls
Total Reported Emissions (mt CO ₂ e)	47596.2

DeferredPneumaticDeviceVentingDetails:

Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	

DeferredPneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	

DeferredDehydratorsDetails:

Does the Facility have any dehydrators subject to reporting under 98.232?	
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DeferredGlycolDehydratorsLessThanSpecifiedValueRowDetails:

What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Vapor Recovery
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Dehydrator Vents to Flares
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Regenerator fire-box/fire tubes
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	

What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	No Vent Controls
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Other / Multiple Vent Gas Controls
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	

DeferredCentrifugalCompressorsDetails:

Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	
Count of compressors [98.236(c)(13)(v)(A)]	

DeferredOtherEmissionsFromEquipmentLeaksDetails:

Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
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DeferredComponentCountMethodologyOneRowDetails:

Major Equipment Type [98.236(c)(15)(ii)(B)]	Wellheads
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Separators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Meters/piping
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Compressors
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	In-line heaters
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Dehydrators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Heater-treater

Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Header
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	

DeferredLocalDistributionCompaniesDetails:

Annual CH4 emissions from all above grade metering-regulating stations (including T-D transfer stations) combined (mt CO2e) [98.236(c)(16)(xix)]	21.3
Leak factor for meter/regulator run developed in Equation W-32 of §98.233 [98.236(c)(16)(viii)]	
Number of miles of unprotected steel distribution mains (W-31) [98.236(c)(16)(ix)]	
Number of miles of protected steel distribution mains (W-31) [98.236(c)(16)(x)]	
Number of miles of plastic distribution mains (W-31) [98.236(c)(16)(xi)]	
Number of miles of cast iron distribution mains (W-31) [98.236(c)(16)(xii)]	
Number of unprotected steel distribution services (W-31) [98.236(c)(16)(xiii)]	
Number of protected steel distribution services (W-31) [98.236(c)(16)(xiv)]	
Number of plastic distribution services (W-31) [98.236(c)(16)(xv)]	
Number of copper distribution services (W-31) [98.236(c)(16)(xvi)]	

DeferredCombustionEmissionsDetails:

Does the Facility have combustion emissions subject to reporting under 98.232?	Yes
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DeferredExternalFuelTypeHeatCapacityGreaterThanSpecifiedValueRowDetails:

Type of fuel combusted [98.236(c)(19)(iv)]	Pipeline gas
Cumulative volume of fuel combusted [98.236(c)(19)(iv)]	13264000
Fuel Volume Units [98.236(c)(19)(iv)]	std. cubic ft

SubpartWDeferredSummaryDetails:

Industry Segment Number	8
Industry Segment Name	Natural gas distribution [98.230(a)(8)]
Reporting Period:	2012
Location and name of original Subpart W Form	C:\Users\HRMJ07\Desktop\eGGRTSubWDeferred\RY11_13 Sub W Reports\Subpart+W+Integrated+Reporting+Form_NSPM_2012.xls

Total Reported Emissions (mt CO2e)	45427.3
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DeferredPneumaticDeviceVentingDetails:

Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	

DeferredPneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	

DeferredDehydratorsDetails:

Does the Facility have any dehydrators subject to reporting under 98.232?	
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DeferredGlycolDehydratorsLessThanSpecifiedValueRowDetails:

What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Vapor Recovery
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Dehydrator Vents to Flares
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	

Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Regenerator fire-box/fire tubes
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	No Vent Controls
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Other / Multiple Vent Gas Controls
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	

DeferredCentrifugalCompressorsDetails:

Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	
Count of compressors [98.236(c)(13)(v)(A)]	

DeferredOtherEmissionsFromEquipmentLeaksDetails:

Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
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DeferredComponentCountMethodologyOneRowDetails:

Major Equipment Type [98.236(c)(15)(ii)(B)]	Wellheads
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Separators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Meters/piping
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	

Major Equipment Type [98.236(c)(15)(ii)(B)]	Compressors
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	In-line heaters
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Dehydrators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Heater-treater
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Header
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	

DeferredLocalDistributionCompaniesDetails:

Annual CH4 emissions from all above grade metering-regulating stations (including T-D transfer stations) combined (mt CO2e) [98.236(c)(16)(xix)]	0.0
Leak factor for meter/regulator run developed in Equation W-32 of §98.233 [98.236(c)(16)(viii)]	
Number of miles of unprotected steel distribution mains (W-31) [98.236(c)(16)(ix)]	
Number of miles of protected steel distribution mains (W-31) [98.236(c)(16)(x)]	
Number of miles of plastic distribution mains (W-31) [98.236(c)(16)(xi)]	
Number of miles of cast iron distribution mains (W-31) [98.236(c)(16)(xii)]	
Number of unprotected steel distribution services (W-31) [98.236(c)(16)(xiii)]	
Number of protected steel distribution services (W-31) [98.236(c)(16)(xiv)]	
Number of plastic distribution services (W-31) [98.236(c)(16)(xv)]	
Number of copper distribution services (W-31) [98.236(c)(16)(xvi)]	

DeferredCombustionEmissionsDetails:

Does the Facility have combustion emissions subject to reporting under 98.232?	Yes
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DeferredExternalFuelTypeHeatCapacityGreaterThanSpecifiedValueRowDetails:

Type of fuel combusted [98.236(c)(19)(iv)]	Pipeline gas
Cumulative volume of fuel combusted [98.236(c)(19)(iv)]	8531000
Fuel Volume Units [98.236(c)(19)(iv)]	std. cubic ft

SubpartWDeferredSummaryDetails:

Industry Segment Number	8
Industry Segment Name	Natural gas distribution [98.230(a)(8)]
Reporting Period:	2013
Location and name of original Subpart W Form	C:\Users\HRMJ07\Desktop\eGGRTSubWDeferred\RY11_13 Sub W Reports\2013NSP Subpart+W+Integrated+Reporting+Form+MN+FINAL.xls
Total Reported Emissions (mt CO2e)	48393.8

DeferredPneumaticDeviceVentingDetails:

Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	

DeferredPneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Actual Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	
Estimated Count 98.236(c)(1)(i) 98.236(c)(1)(ii) 98.236(c)(1)(iii)	

DeferredDehydratorsDetails:

Does the Facility have any dehydrators subject to reporting under 98.232?	
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DeferredGlycolDehydratorsLessThanSpecifiedValueRowDetails:

What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Vapor Recovery
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Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Dehydrator Vents to Flares
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Regenerator fire-box/fire tubes
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	No Vent Controls
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	
What Vent Gas Controls Used [98.236(c)(4)(ii)(B)]	Other / Multiple Vent Gas Controls
Total CH4 Emissions from Venting (mt CO2e) [98.236(c)(4)(ii)(C)]	
Total CO2 Emissions from Flaring (mt CO2) [98.236(c)(4)(ii)(D)]	
Count of Glycol Dehydrators (W-5) [98.236(c)(4)(ii)(A)]	

DeferredCentrifugalCompressorsDetails:

Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	
Count of compressors [98.236(c)(13)(v)(A)]	

DeferredOtherEmissionsFromEquipmentLeaksDetails:

Does the facility have any equipment leaks subject to reporting under 98.232?	No
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DeferredComponentCountMethodologyOneRowDetails:

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Major Equipment Type [98.236(c)(15)(ii)(B)]	Wellheads
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Separators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Meters/piping
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Compressors
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	In-line heaters
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Dehydrators
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Heater-treater
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	
Major Equipment Type [98.236(c)(15)(ii)(B)]	Header
Total count for each type of Major Equipment [98.236(c)(15)(ii)(B)]	

DeferredLocalDistributionCompaniesDetails:

Annual CH ₄ emissions from all above grade metering-regulating stations (including T-D transfer stations) combined (mt CO ₂ e) [98.236(c)(16)(xix)]	0.0
Leak factor for meter/regulator run developed in Equation W-32 of §98.233 [98.236(c)(16)(viii)]	
Number of miles of unprotected steel distribution mains (W-31) [98.236(c)(16)(ix)]	
Number of miles of protected steel distribution mains (W-31) [98.236(c)(16)(x)]	
Number of miles of plastic distribution mains (W-31) [98.236(c)(16)(xi)]	
Number of miles of cast iron distribution mains (W-31) [98.236(c)(16)(xii)]	
Number of unprotected steel distribution services (W-31) [98.236(c)(16)(xiii)]	
Number of protected steel distribution services (W-31) [98.236(c)(16)(xiv)]	
Number of plastic distribution services (W-31) [98.236(c)(16)(xv)]	
Number of copper distribution services (W-31) [98.236(c)(16)(xvi)]	

DeferredCombustionEmissionsDetails:

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Does the Facility have combustion emissions subject to reporting under 98.232?	Yes
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DeferredExternalFuelTypeHeatCapacityGreaterThanSpecifiedValueRowDetails:

Type of fuel combusted [98.236(c)(19)(iv)]	Pipeline gas
Cumulative volume of fuel combusted [98.236(c)(19)(iv)]	8531000
Fuel Volume Units [98.236(c)(19)(iv)]	std. cubic ft

CERTIFICATE OF SERVICE

I, SaGonna Thompson, 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-15-194

MISCELLANEOUS NATURAL GAS SERVICE LIST

Dated this 1st day of March 2016

/s/

SaGonna Thompson

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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