



414 Nicollet Mall
Minneapolis, MN 55401

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August 1, 2024

—Via Electronic Filing—

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

RE: PETITION
CHANGES IN CONTRACT DEMAND ENTITLEMENTS
DOCKET NO. E002/M-24-____

Dear Mr. Seuffert:

Enclosed is the Petition for approval of changes in Contract Demand Entitlements of Northern States Power Company, doing business as Xcel Energy, pursuant to Minn. Rule 7825.2910, Subp. 2.

Portions of our filing contain trade secret information as defined under Minn. Stat. § 13.37. As such, this data is protected from public disclosure and has been marked accordingly. Xcel Energy makes extensive efforts to maintain the secrecy of this information. This information is not available outside the Company except to other parties involved in contracts and to regulatory agencies under the confidentiality provisions of state or federal law, as evidenced by the non-disclosure provisions in the contracts. Xcel Energy also provides this information to state regulatory agencies in the Annual Automatic Adjustment of Charges Reports and in the monthly purchased gas adjustment (PGA) filings in the confidential trade secret versions of these reports.

The supply information has economic value to Xcel Energy, its customers, suppliers, and competitors in at least three ways. If suppliers know the terms of Xcel Energy's supply and transportation contracts, they may be able to use this knowledge to fashion bids to Xcel Energy. Suppliers will be reluctant to offer special favorable terms to Xcel Energy if they know other competitors or customers will gain knowledge of the terms and demand similar terms in the future. Competitors of Xcel Energy such as other LDCs also purchase their services. These competitors may be able to leverage

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knowledge of Xcel Energy's costs to gain similar terms or may offer slightly better prices to suppliers, denying Xcel Energy's access to this gas or other services.

Any of these results would harm Xcel Energy and its natural gas customers. Because Xcel Energy competes for supplies, transportation, storage, and other services in the wholesale market, disclosure would directly harm Xcel Energy by making its delivered supply cost less competitive. To the extent that Xcel Energy supply costs rise, Xcel Energy's regulated sales customers would have to pay higher natural gas rates. This result would not serve the public interest.

Attached to this cover letter, we provide the required information as specified in Minn. Rules 7829.1300 and 7829.0700, including to whom information requests should be directed.

We have electronically filed this document with the Commission, and copies have been served on the parties on the attached service lists. Please contact me at (612) 330-7681 or lisa.r.peterson@xcelenergy.com or Jennifer Roesler at (612) 330-1925 or jennifer.roesler@xcelenergy.com if you have any questions regarding this filing.

Sincerely,

/s/

LISA PETERSON
DIRECTOR, REGULATORY PRICING AND ANALYSIS

Enclosures
cc: Service Lists

REQUIRED INFORMATION

I. SUMMARY OF FILING

A one-paragraph summary is attached to this filing pursuant to Minn. Rule 7829.1300, subp. 1.

II. SERVICE ON OTHER PARTIES

Pursuant to Minn. Stat. § 216.17, Subd. 3, Xcel Energy has electronically filed this document. In compliance with Minn. Rule 7825.2910, Subp. 3, Xcel Energy has served a summary of this Petition on the interveners in the two most recent (2023 and 2021) general rate case filings for the Company's natural gas utility operation. The Summary has also been served on all parties on Xcel Energy's miscellaneous gas service list.

III. GENERAL FILING INFORMATION

Pursuant to Minn. Rule 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

Riley Conlin
Principal Attorney
Xcel Energy
414 Nicollet Mall, 401 – 8th Floor
Minneapolis, MN 55401
(612) 216-9309

C. Date of Filing and Date Modified Rates Take Effect

Xcel Energy is submitting this filing on August 1, 2024. The Company requests Commission approval to implement the rate impact of this filing in our PGA effective

REQUIRED INFORMATION

with November 1, 2024 usage. Pursuant to Minn. Stat. § 216B.16, Subd. 7, Minn. Rule 7825.2920, and our PGA tariff (Minnesota Gas Rate Book Sheet Nos. 5-40, 5-41, and 5-42), Xcel Energy will provisionally place the PGA changes into effect on November 1, 2024, subject to later Commission approval.

D. Statute Controlling Schedule for Processing the Filing

The applicable statute is Minn. Stat. § 216B.16, Subd. 7. This statute does not state a specific timeframe for Commission action. The applicable rules are Minn. Rule 7825.2910, Subp. 2, 7825.2920, 7829.1300, and 7929.1400. Under Minn. Rule 7829.0100, Subp. 11, the Commission treats all filings that do not fall into a specific category as Miscellaneous Filings. Minn. Rule 7829.1400, Subpts. 1 and 4, permit comments in response to a miscellaneous filing within 30 days of filing, with reply comments 10 days thereafter.

E. Utility Employee Responsible for Filing

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

IV. MISCELLANEOUS INFORMATION

Pursuant to Minn. Rule 7829.0700, the Company requests that the following persons be placed on the Commission's official service list for this proceeding:

Riley Conlin
Principal Attorney
Xcel Energy
414 Nicollet Mall, 401 – 8th Floor
Minneapolis, MN 55401
riley.conlin@xcelenergy.com

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

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

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Hwikwon Ham	Commissioner
Valerie Means	Commissioner
Joseph K. Sullivan	Commissioner
John A. Tuma	Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF CHANGES IN
CONTRACT DEMAND ENTITLEMENTS

DOCKET NO. G002/M-24-____

PETITION

INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition for approval of a change in Contract Demand Entitlements, pursuant to Minn. Stat. § 216B.16, Subd. 7 and Minn. Rule 7825.2910, Subp. 2. This Petition seeks approval from the Commission to allow the Company to implement, through the Purchased Gas Adjustment (PGA), changes in our interstate pipeline transportation, storage entitlements, and other demand-related contracts for the upcoming year.

We have projected an increase in Minnesota design day (DD) requirements of 5,775 Dekatherms, with a decrease in demand-related costs to Minnesota for the 2024-2025 year of approximately \$855,336 (0.97 percent) effective November 1 as compared to the previous year as effective January 1, 2024. The change in costs is predominantly the result of reaching settlements in FERC rate cases with one interstate pipeline transportation provider, offset with one scheduled rate increase on an interstate pipeline. The Company was an active participant in those rate cases on behalf of our customers to ensure just and reasonable rates. Annually updating our natural gas transportation, storage entitlements, and supply contracts is important to ensure the Company has access to sufficient capacity to cover the anticipated peak demand of our natural gas customers.

The Company respectfully requests approval to implement our 2024-2025 Heating Season Supply Plan effective November 1, 2024, for customers served with natural gas in the State of Minnesota. Pursuant to Minn. Rule 7825.2920 and prior

Commission practice, we will provisionally implement the PGA rate changes associated with this filing on November 1, 2024.

The following attachments are included with this Petition:

- Attachment 1: Filing Requirements Pursuant to Minn. Rule 7825.2910, Subp. 2 and the requirement from the February 17, 2023 Order.¹
- Attachment 2: Information Provided in Response to the Department Letter Dated October 1, 1993 and Storage Entitlements required by Order dated October 16, 2015 in Docket No. G002/M-14-654.
- Attachment 3: Information Provided in Response to Report Requirements in Docket No. G002/M-08-46 and Orders dated April 22, 2016 in Docket No. G002/M-16-88 and February 12, 2020 in Docket No. G002/M-19-703 regarding use of financial instruments to limit price volatility.

I. DESCRIPTION AND PURPOSE OF FILING

This filing seeks Commission approval to allow the Company to implement, through the PGA, changes in our interstate pipeline transportation, storage entitlements, and other demand-related contracts for the upcoming year. Updating our natural gas transportation, storage entitlements, and supply contracts on an annual basis is important to ensuring the Company has access to sufficient capacity to cover the anticipated peak demand of our natural gas customers. To determine the amount required, we consider our forecast of customer needs under DD conditions. By comparing that anticipated need to our current supply arrangements and peaking plant availability, we can determine what incremental additions are needed to ensure we can meet our customer needs under the most extreme conditions at reasonable cost.

Pursuant to Minn. Rule 7825.2920 and prior Commission practice, we will provisionally implement the PGA rate changes associated with this filing on November 1, 2024, and respectfully request Commission approval of the revised entitlements effective on November 1, 2024. We list the changes reflected in this filing below.

¹ *In the Matter of a Commission Investigation into the Impact of Severe Weather in February 2021 on Impacted Minnesota Natural Gas Utilities and Customers*, Docket Nos. G999/CI-21-135, G008/M-21-138, G004/M-21-235, G002/CI-21-610, and G011/CI-21-611, ORDER REQUIRING ACTIONS TO MITIGATE IMPACTS FROM FUTURE NATURAL GAS PRICE SPIKES, SETTING FILING REQUIREMENTS, AND INITIATING A PROCEEDING TO ESTABLISH A GAS RESOURCE PLANNING REQUIREMENTS (February 17, 2023), Order Point 9.

A. Change in Design Day

Our filing reflects a change in our DD forecast from the 2023-2024 heating season, as described in Attachment 1, page 3. Our forecasted firm customer count in the Minnesota State jurisdiction increased by 5,434 customers (primarily residential customer growth), from 488,079 forecast for the 2023-2024 heating season to 493,513 forecast for the 2024-2025 heating season. This projection contributes to an increase in DD requirements in Minnesota State jurisdiction of 5,775 Dekatherms (Dth), from 778,606 to 784,381.

B. Change in Resources to meet Design Day

Reflected in this filing are minor changes in our resources used to meet our DD customer requirements, including entitlements on our pipeline and storage supplier systems: Northern Natural Gas Company, Viking Gas Transmission Company, Great Lakes Gas Transmission Company, ANR Pipeline Company, WBI Energy Transmission, and ANR Storage Company. Depending on the service, these changes take effect at various times during the heating season.

Attachment 1 and Attachment 2 provide background information regarding each of these proposed changes. Specifically, Attachment 1 contains the following documentation required by Minn. Rule 7825.2910, Subp. 2:

- a description of the factors contributing to the need for changing demand;
- the Company's DD demand by customer class and the change in DD demand, if any, necessitating the demand revision;
- a summary of the levels of winter versus summer usage for all customer classes; and
- a description of DD gas supply from all sources under the new level, allocation, or form of demand.

The information provided in Attachment 2 is in response to the October 1, 1993 letter from the Department and the October 16, 2015 Order of the Commission,² and outlines the changes in the Company's Energy Firm DD Requirements, daily pipeline entitlement, pipeline billing units and storage entitlements from the 2023-2024 entitlement levels.

² Docket No. G002/M-14-654.

C. Change in Jurisdictional Allocations

The changes in the DD forecast slightly alter the allocation of entitlements between the Minnesota and North Dakota retail natural gas jurisdictions. This filing updates this allocation to reflect the latest DD forecast with slight increases in contract demand requirements and customer growth in North Dakota. As a result the DD allocation factor decreased slightly for the Minnesota State jurisdiction from 86.80 percent to 86.42 percent.

D. Change in Supply Reservation Fees

This filing also reflects updated costs for firm gas supply reservation fees. These are demand charges paid for contracted delivered supply deals rather than for pipeline transportation service. The decrease in the amount of contracted delivered supply, as well as increases in fees from providers have resulted in an increase in supplier reservation charges of \$400.

E. Heating Season Plan for Use of Financial Instruments

Attachment 3 provides information in response to the reporting requirements established in Docket No. G002/M-12-519 (Order dated September 23, 2013) regarding our use of financial instruments to limit first-of-the-month commodity price volatility, and Docket Nos. G002/M-16-88 and G002/M-19-703 (Orders dated April 22, 2016 and February 12, 2020) regarding benefits to customers. The Company's hedging practices are consistent with prior Commission Orders and the attachment discusses the anticipated benefits of the contracts to ratepayers and shows a summary of hedge transactions to date for the 2024-2025 heating season.

F. Reserve Margin Information

We propose a capacity reserve margin of 3.9 percent for the 2024-2025 heating season, as discussed in Attachment 1, Section C and Attachment 2, Schedule 1, Page 3 of 3.

G. Information Provided in Attachments

Xcel Energy has endeavored to provide all requested information, and has taken steps to ensure the filing's accuracy so that this Petition contains the necessary information for approval of the changes in Contract Demand Entitlements. The location of specific types of information is detailed in the list of attachments below.

Attachment 1: Filing Requirements Pursuant to Minn. Rule 7825.2910, Subp. 2 and Information Provided in Response to Commission Order dated February 17, 2023 in Docket Nos. G999/CI-21-135, G008/M-21-138, G004/M-21-235, G002/CI-21-610, and G011/CI-21-611.

<u>Schedule</u>	<u>Title</u>
1	Derivation of Minnesota Jurisdiction Allocation Factor
2	Demand Cost of Gas Impact
3, page 1	Summary of Design Day Demand by Customer Class
3, page 2	Derivation of Actual Peak Day Use Per Customer
4	Historical Sales – Seasonal Usage
5	Firm Supply Entitlements

Attachment 2: Information Provided in Response to the Department Letter dated October 1, 1993 and Commission Order dated October 16, 2015 in Docket No. G002/M-14-654.

<u>Schedule</u>	<u>Title</u>
1, page 1-2	Demand Profile, Storage Entitlements
1, page 3	Changes to Contract Entitlements
2, page 1-3	Rate Impact
2, page 4	Derivation of Current PGA Costs

Attachment 3: Information Provided in Response to Report Requirements in Docket No. G002/M-08-46 Regarding Use of Financial Instruments to Limit Price Volatility, and Docket Nos. G002/M-16-88 and G002/M-19-703 (Orders dated April 22, 2016 and February 12, 2020) regarding benefits to customers.

<u>Schedule</u>	<u>Title</u>
1	Summary of Hedge Transactions

II. EFFECT OF CHANGE UPON XCEL ENERGY REVENUE

As calculated in Attachment 1, Schedule 2, page 1 of 2, the effect of the proposed changes in demand cost upon Xcel Energy’s Minnesota State annual revenue is a decrease of \$855,336 or about 0.97 percent effective November 1, 2024 as compared to the previous year’s CD Entitlement filing effective January 1, 2024. The change in costs is predominantly the result of a federal rate case settlement with an interstate pipeline transportation provider, offset, in part, by one incremental entitlement acquisition. The Company was an active participant in these federal rate cases to protect Minnesota interests. The cost change will automatically be reflected in rates

through the operation of the Company's PGA clause. The demand rate calculation is shown in Attachment 2, Schedule 2, page 4 of 4.

CONCLUSION

Xcel Energy respectfully requests Commission approval of our 2024-2025 Heating Season Supply Plan effective November 1, 2024, and approval to implement the retail rate impact of this filing in our PGA effective with November 1, 2024 usage. Approval will enable us to provide continued reliable and competitive service for our natural gas customers in Minnesota. The Company will provisionally reflect the change in entitlement costs associated with the revised contract demand entitlements in the Company's November PGA, subject to later Commission approval.

Dated: August 1, 2024

Northern States Power Company

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Hwikwon Ham	Commissioner
Valerie Means	Commissioner
Joseph K. Sullivan	Commissioner
John A. Tuma	Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF CHANGE IN
CONTRACT DEMAND ENTITLEMENTS

DOCKET NO. G002/M-24-____

PETITION

SUMMARY OF FILING

Please take notice that on August 1, 2024, Northern States Power Company, doing business as Xcel Energy, filed a Request for Change in Contract Demand Entitlements pursuant to Minn. Rule 7825.2910, Subp. 2. Xcel Energy requests Commission approval to implement its 2024-2025 Heating Season Supply Plan effective November 1, 2024. The costs related to the entitlement changes will be provisionally reflected in retail gas rates through the Purchase Gas Adjustment effective November 1, 2024, subject to later Commission approval.

ATTACHMENT 1

Northern States Power Company

**Filing Upon Change in Demand
Filing Requirements Pursuant to Minn. Rule 7825.2910, Subp. 2**

Northern States Power Company

Filing Requirements Pursuant to Minn. Rule 7825.2910, Subp. 2 Filing Upon Change in Demand

A. Description of the factors contributing to the need for change in demand

As discussed in our Petition, the factors contributing to the need for a change in demand include:

- Increase in design day (DD) requirements,
- Changes in resources required to meet the DD and provide an adequate reserve margin,
- Updates to jurisdictional allocations, and
- Changes in supply reservation fees.

We discuss each of these factors below.

1. Change in Design Day

Our objective in calculating DD customer demand is to forecast anticipated demand at design temperatures, so that adequate firm supply resources may be planned for and made available if DD weather conditions occur. We recognize that customer response to temperature is dynamic, particularly if we experience severely cold seasonal temperatures. Therefore, we continue to: (1) calculate DD using both Actual Peak Use per Customer Design Day (UPC DD) and Average Monthly Design Day (Avg. Monthly DD) methods; and (2) consider the results when predicting future DD needs.

In the Company's 2004-2005 Contract Demand Entitlements filing, the Company described its addition of a second methodology for calculating our DD, the UPC DD.¹ The addition of UPC DD ensures that the DD is adequately and accurately estimated. Prior to the 2004-2005 Docket, we used a single methodology, based on a linear regression calculation of average monthly weather and usage data.

Our forecasted firm customer count in Minnesota State increased by 5,434 customers, from 488,079 forecast for the 2023-2024 heating season to 493,513 forecast for the

¹ Docket No. G002/M-04-1735.

2024-2025 heating season. This projection contributes to an increase in DD requirements in Minnesota State of 5,775 Dekatherms (Dth), from 778,606 to 784,381, using the UPC DD method as detailed on **Attachment 1, Schedule 3, page 1 of 2**.

a. Average Monthly Design Day

We use the Avg. Monthly DD to develop the allocations by state and by service region as shown on **Attachment 1, Schedule 1, page 1 of 5**. The Avg. Monthly DD calculation is based on linear regression using 60 data points, from January 2019-December 2023, as shown on **Attachment 1, Schedule 1, pages 2-5**. Nearly 90 percent of all regression statistics were very strong with R-squared values at or above 80 percent.² The regions with R-squared values below 80 percent were generally those with much lower customer counts.

In performing the regression analysis above, similar to previous years, two areas (Grand Forks MN Small Commercial (GFMSC), and WBI Residential (WBIR)) resulted in negative intercept coefficients. This would indicate negative gas use at 0 heating degree day (HDD), which is not realistically possible. To correct this, we adjusted the heating degree day values to 0 for each summer month for the affected areas. This supports our base use of gas during the summer months, which is not temperature dependent, and is more reflective of reality. We then performed the regression analysis on the four areas, which resulted in positive intercept coefficients, though not statistically significantly different from zero.

Additionally, we tested each regional demand area and class regression for the presence of autocorrelation, as the Department requested in Docket No. G002/M-17-586. For each regression analysis in the Avg. Monthly DD model we calculated the Durbin-Watson statistic, a common measure for the presence of autocorrelation. Consistent with other statistics and expectations, the most independent errors existed for residential customer regions, while those most prone to autocorrelation were small commercial classes. There were eight Durbin-Watson results over 2, and five regressions with values below 1, indicating positive autocorrelation. In other words, the previous error predicted the following error term.

To address the autocorrelation bias present in these regression models, the Company employed a two-stage regression model, whereby the original data values were

² The closer its R-squared value is to 100 percent or “1”, the greater the ability of that model to predict a trend.

transformed and lagged by 1 time-span with the estimate of the autocorrelation effect. The regression analysis is then performed on the transformed data. In the event the results remain autocorrelated (with Durbin-Watson statistics above 2 or below 1), the process was repeated. One region went through this process three times, and five twice. In all cases the autocorrelation was corrected with new Durbin-Watson statistics between 1 and 2. The values of the regression results are displayed in **Attachment 1, Schedule 1, pages 2-5.**

Given the robust regression statistics, we believe the Avg. Monthly DD method accurately captures the DD relationship between the states and service regions and produces the appropriate allocations by state and service region according to current customer use trends.

b. Actual Peak Use Per Firm Customer

The actual use per firm customer data contains the daily total usage for firm customers that do not have individual actual peak day information. As detailed in **Attachment 1, Schedule 3, page 2 of 2**, the actual peak day use per firm customer remains the same at 1.57393 Dth as experienced January 29, 2004. For non-demand-billed customers, the projected DD is calculated as the sum of the Avg. Monthly DD totals for all service regions to yield the Projected DD for these Minnesota State customers of 756,234 Dth. The Small and Large Demand Billed contracted customer Billing Demand of 28,148 Dth is added to the DD estimate for the Residential, Small and Large Commercial classes to determine the total Minnesota State DD Projection of 784,382 Dth as shown on **Attachment 1, Schedule 3, page 1 of 2.**

We continue to maintain and compare both methodologies. We believe that the models are adequately estimating natural gas needs during cold weather and the current use per customer estimate should be maintained. However, we continue to evaluate the models each year to determine if they are adequately projecting natural gas supply needs and adjust the use per customer estimate if necessary.

2. *Change in Resources to Meet Design Day*

Attachment 2, Schedule 1, pages 1-2 details the demand entitlement changes to meet the increased DD in Minnesota State for the 2024-2025 heating season compared to the 2023-2024 heating season as filed in Docket No. G002/M-23-361. **Attachment 1, Schedule 2** details the demand cost component changes for the 2024-2025 heating season. The projected DD for the Company increased by 10,543 Dth/day (5,775 Dth/day for Minnesota) for the 2024-2025 heating season. The demand entitlement changes discussed below represent a combination of renewals of

existing contract entitlements, and new and incremental contracts to serve the growth in projected DD. **Attachment 1, Schedule 2, page 2 of 2** also shows the year-to-year demand cost changes allocated by jurisdiction or upstream/system supply. The schedule shows a decrease of demand related total costs of approximately \$989,691 (\$855,336 for Minnesota) effective November 1, 2024, including contract demand and supplier entitlement changes. This decrease is due primarily to a settlement being reached in a FERC rate cases on Viking Gas Transmission (Viking), offset by a scheduled rate increase on ANR Pipeline Company (ANR) and newly acquired entitlements to continue to meet DD.

a. Change in Viking Gas Transmission (Viking) entitlement (effective November 1, 2024)

NSP renewed capacity on three Viking firm contracts, combining capacity on two, with a total renewal of 97,213 Dth/day at the same terms as previous agreements. This capacity continues to be necessary to meet our firm DD requirements. Viking's tariff includes "term differentiated rates" where longer term agreements receive a slightly lower rate than short term. In order to receive the best tariff rate, the capacity was renewed for terms of five years each, through October 31, 2029.

Additionally, 4,000 Dth/day of delivered supply off Viking expired effective November 1, 2024. With the acquisition of long term capacity on Viking during the previous heating season, the need for additional delivered supply was reduced. This change saves customers approximately \$255,709.

b. Change in Northern Natural Gas (NNG) entitlement (effective November 1, 2023)

As the Company noted in our Petition and Supplement last year, as part of NNG's Northern Lights 2023 (NL23) expansion project, NSP contracted to acquire an additional 9,263 Dth/day of firm entitlement to be effective November 1, 2023 to meet growing demand. However, due to delays in receiving final approval from FERC, the project is now expected to be in-service November 1, 2024. Northern was able to provide partial capacity, on an interim basis to interested parties. We acquired interim capacity to serve areas in St Cloud and at locations in the Twin Cities to provide additional support for customer demand in those areas. That additional capacity to the Twin Cities (4,913 Dth) will expire on October 31, 2024 and the remainder of NSP's NL23 capacity (3,761 Dth) is expected to be in service November 1, 2024. Of this final NL23 quantity, 905 Dth/day on a year-round basis, is significantly discounted as part of NSP's existing discount agreement with NNG, and provides for growth in St. Cloud, MN and the surrounding areas. The remaining 2,856

Dth/day will serve growth areas around Delano and St. Michael, MN at NNG's maximum tariff rate and will provide NSP with capacity to meet future design day requirements. The discounted capacity (905 Dth/day) is for a term ending October 31, 2027 and the tariff rate portion (2,856 Dth/day) is for a term of 10 years from November 1, 2024. Annual costs are \$629,532 per year and are included in **Attachment 1, Schedule 1, pages 1 and 2.**

c. Change in ANR Pipeline entitlement (effective April 1, 2024)

NSP renewed one Firm Transportation Agreement for a term of 3 years ending March 31, 2027, which provides 4,800 Dth/day of access to gas markets in the Oklahoma panhandle through a connection with Viking at Marshfield. The agreement continues to provide regional diversity of supply, and an upstream access for gas delivered through Viking. No alternative without construction was available to meet those upstream supply requirements. Due to strong market demand for capacity on ANR, a previous discount was unable to be continued, and the agreement is at the maximum tariff rate.

Second, the Company renewed one Firm Transportation Agreement and one Firm Storage Service Agreement for three-year terms ending March 31, 2027. The Transportation agreement provides a connection between ANRP storage and Viking at Marshfield, further supporting our regional diversity of gas supplies. The storage service is a valuable source of balancing for Viking connected systems, and a physical hedge against extreme price spikes. Due to high market demand for storage, we were unable to negotiate to continue discounts on the storage capacity, and the extensions of both the storage and transportations are at the maximum tariff rate.

Finally, we extended 66,500 Dth/day of Firm Transportation capacity providing access to the Chicago hub for a term of 5 years, ending October 31, 2029. The transportation service continues to provide regional diversity of gas supplies, and a supply source for our upstream Viking capacity. There is no alternative to this capacity that would not require construction. The five-year term was necessary to meet increased competition for capacity on ANR.

In addition, small decreases were made to entitlement holdings on ANR Pipeline pursuant to ANR Pipeline's tariff. These are annual adjustments to match the changes in ANR's in-kind fuel percentages made each spring by the Federal Energy Regulatory Commission (FERC). These volume changes maintain our delivery quantities in response to changes in fuel requirements and do not materially impact demand costs.

d. Changes in Great Lakes Gas Transmission entitlement (effective April 1, 2025)

The Company renewed two Firm Transportation Agreements on Great Lakes Gas Transmission (GLGT). The agreements, respectively, provide forward haul service in order to fill ANR Storage Company (ANRS) storage in the summer, and backhaul to withdrawal gas from storage in the winter. Both agreements provide upstream gas supplies to our capacity on Northern Natural Gas for ultimate service to our customers. The transportation services continue to provide access to storage and regional diversity of gas supplies through access to the Emerson Hub. Due to high demand for GLGT capacity, the renewal term for each agreement is 13 years, through March 31, 2037.

e. Changes in ANR Storage Company entitlement (effective April 1, 2025)

We renewed 1,165,000 Dth of storage capacity on ANR Storage Company (ANRS) for a term of five years, through March 31, 2030. Storage remains a vital part of our efforts to provide balancing services to our system as well as a physical price hedge to mitigate the impacts of potential price spikes. ANRS has received Market Based Rate authority from FERC, and as such the rate is subject to change from contract to contract. Due to high demand for storage services, the rates for ANRS service increased significantly over previous contracts. However, NSP did solicit offers from other market-based providers, and the ANRS cost is competitive with those offers, as well as regional cost-of-service based providers. With the consideration of necessary transportation capacity to access storage, the ANRS agreement was the best option.

f. Storage and Financial Hedging Options

Following the extraordinary gas prices and supply disruptions experienced during Winter Storm Uri in 2021 NSP continues to explore options to reduce the potential impact of such dramatic price swings on our customers. These include exploring options to add storage capacity to our current storage agreements. Additional storage would reduce gas purchases priced at the daily gas price, provide reliability of supplies, and, depending on the location, provide increased regional diversity. The Company also continues to survey the market for financial hedging products that would protect against daily price swings. However, these products are not offered by the market at price levels or at quantity levels that would significantly offset cost risk. As part of its currently effective hedge plan filed in Docket No. G002/M-23-521, the Company obtained approval to use swap agreement contracts as a new financial hedge tool and

will be surveying the market for effective products. The Company will continue to update the Commission on progress in this area.

g. Storage Alternatives

On February 21, 2024, in Docket No. G002/M-24-80, the Department of Commerce provided Comments on the Company's petition for approval of a three-year rule variance to the PGA Rules to allow recovery of a storage-related cost of natural gas—the 2025-2027 property tax on the Company's natural gas for use for its retail natural gas customers stored in the state of Kansas—through the PGA. In its Kansas Property Tax Rule Variance filings, the Company historically provided a discussion of the storage alternatives examined and our efforts to obtain the most cost-effective storage options. In its April 2, 2024 Order, the Commission agreed with and adopted the recommendations of the Department of Commerce. The Department recommended that the Company provide an updated analysis in its future Demand Entitlement filings.

To ensure the most cost-effective storage service for our customers, we consider the following factors when evaluating service options: reservation costs (capacity and deliverability); transportation to our service area; flexibility of services, and whether storage and transportation capacity is available for purchase. As noted below in Table 1, the Company has no NNG storage contracts up for renewal until May 2026. As such, there are no alternatives to NNG storage to consider at this time. We will evaluate all market conditions and options again at the appropriate time prior to renewal of any agreements.

Table 1
Future Storage Contracts

Contract	Capacity	Deliverability	End Date	Renewal Date	% of Portfolio
22337	6,529,975	113,259	5/31/2027	5/31/2026	52%
22337	155,000	2,689	5/31/2027	11/30/2026	1%
112399	4,500,000	78,050	5/31/2027	11/30/2026	36%
22337	1,400,000	24,282	5/31/2028	11/30/2027	11%
Total Portfolio	12,584,975	218,280			100%

h. Geographic Diversity

In their February 17, 2023 Order³ the Commission required utilities to discuss in future contract demand entitlement filings how “changes to their pipeline capacity affects their supply diversity and, if pipeline capacity comes at a cost premium but increases supply diversity, provide a meaningful cost/benefit discussion of the tradeoff, including a comparison with the least-cost capacity option.”

The Company builds its gas transportation and storage portfolio with a focus to deliver safe, reliable, geographically diverse, gas service at a reasonable cost for its customers. The Company’s plan provides significant operational and cost benefits to its customers through access to a geographically diverse supply mix, storage services, baseload supplies, and spot market purchases.

The Company transports the majority of its natural gas supply on Northern Natural Gas (NNG), Viking Transmission (Viking), and WBI Transmission Inc. (WBI) pipelines, which are the only interstate pipelines directly connected to our distribution systems. The Company also relies on Northern Border Pipeline, Great Lakes Gas Transmission (GLGT), and ANR Pipeline Company (ANR-P), which are not directly connected to our distribution systems. The Company holds storage services on NNG, ANR-P, and ANR Storage Company (ANR-S). This array of pipeline and storage services provides geographic diversity and strengthens reliability of the Company’s natural gas supply.

Figure 1 shows the main supply and pipeline sources for NSP.

³ *In the Matter of a Commission Investigation into the Impact of Severe Weather in February 2021 on Impacted Minnesota Natural Gas Utilities and Customers*, Docket Nos. G999/CI-21-135, G008/M-21-138, G004/M-21-235, G002/CI-21-610, G011/CI-21-611, ORDER REQUIRING ACTIONS TO MITIGATE IMPACTS FROM FUTURE NATURAL GAS PRICE SPIKES, SETTING FILING REQUIREMENTS, AND INITIATING A PROCEEDING TO ESTABLISH GAS RESOURCE PLANNING REQUIREMENTS (February 17, 2023).

Figure 1
NSP Supply and Storage

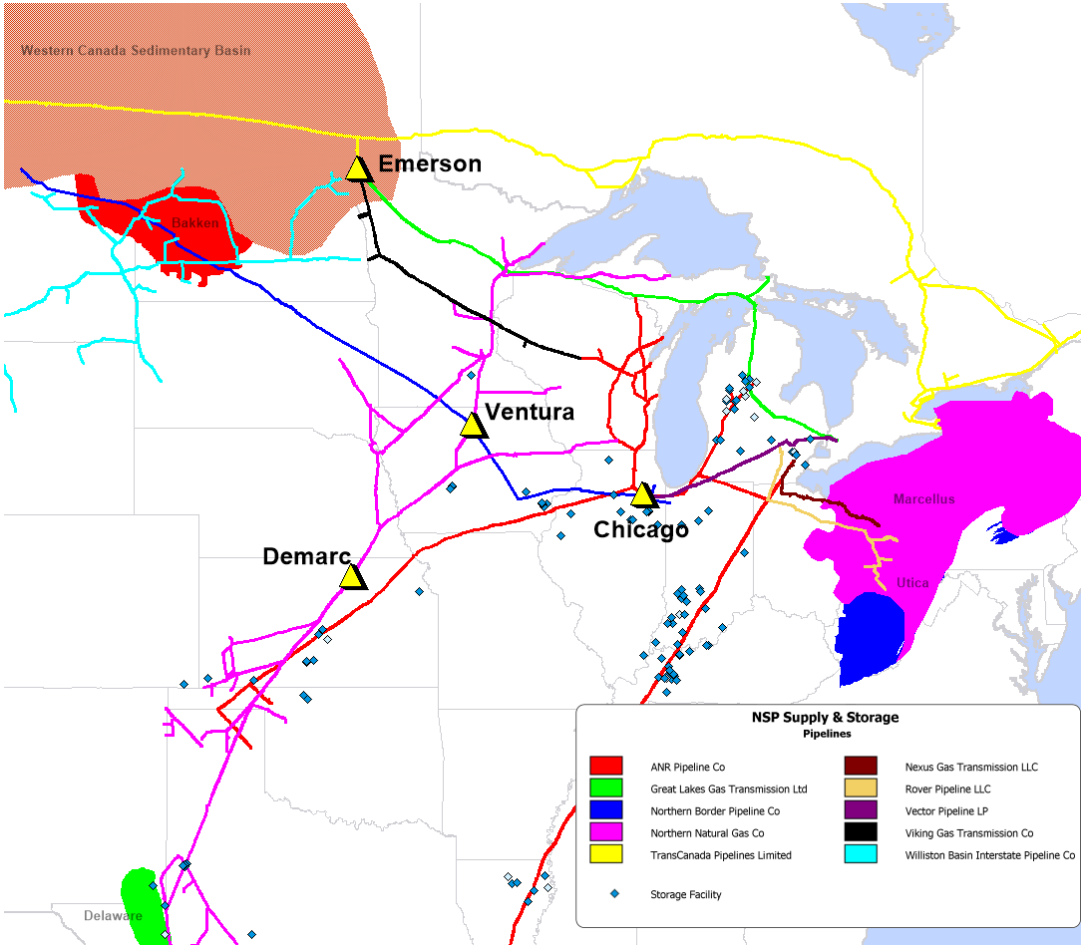


Table 2 below shows NSP’s regional allocation of capacity by receipt point, accounting for upstream supply connections. For example, ANR-S storage service in Michigan is upstream of receipt capacity on NNG at Carlton. Therefore, receipt capacity at Carlton does not include the amount supplied from ANRS storage.

Table 2
Geographic Diversity of Daily Supply Sources

Receipt Point	2024-2025		2023-2024		Change	
	Dth/day	% Total	Dth/day	% Total	Dth/day	% Total
ANR SW Headstation (OK)	4,829	0.69%	4,829	0.69%	0	0.00%
NNG Beatrice (REX Interconnect)	9,239	1.33%	9,239	1.32%	0	0.01%
CG Delivered (Emerson/Nymex)	20,000	2.87%	24,000	3.43%	-4,000	-0.56%
Chicago CG	88,500	12.72%	88,500	12.64%	0	0.07%
NNG Demarc	20,985	3.02%	20,985	3.00%	0	0.02%
Emerson	118,453	17.02%	118,453	16.92%	0	0.10%
GLGT/NNG Carlton	54,931	7.89%	54,931	7.85%	0	0.05%
NNG Marshall	1,998	0.29%	1,998	0.29%	0	0.00%
NNG Ventura	125,876	18.09%	125,876	17.98%	0	0.10%
WBI Baker	8,461	1.22%	8,461	1.21%	0	0.01%
ANRP Storage	15,171	2.18%	15,171	2.17%	0	0.01%
ANRS Storage	9,248	1.33%	9,248	1.32%	0	0.01%
NNG Storage Service	218,280	31.36%	218,280	31.18%	0	0.18%
Total	695,971		699,971			

As the table shows, of NSP’s entire demand entitlements portfolio, approximately 31 percent is from storage (excluding peak shaving facilities), and the remainder from various receipt points. The three largest are NNG Ventura (18 percent), Emerson (17 percent), and Chicago (12.7 percent). The change from previous years is primarily due a reduction in city gate delivered supply as new incremental capacity acquired during the previous year is a replacement.

The result is a well-balanced, geographically diverse access to supply. The capacity portfolio provides access to five major price hubs (NNG Ventura, NNG Demarc, Emerson, Chicago, and ANR SW). No single supply source (after accounting for storage) accounts for more than approximately 15 percent of supply. This provides substantial geographic diversity and increases supply reliability. We paid no premiums this year to further supply diversity as our supply portfolio is already significantly diverse.

3. *Change in Interstate Pipeline Tariff Rates*

a. Change in ANR Pipeline Tariff Rates (effective August 1, 2024)

On January 28, 2022, ANR filed a Section 4 rate case (RP22-501) with FERC to change rates effective August 1, 2022, in accordance with its previous rate case settlement. ANR proposed a 73 percent maximum tariff rate increase to the Northern (ML-7) Segment, which is the primary zone in which NSP takes service. A settlement between ANR, FERC Staff, NSP and other active shippers was approved by FERC on April 11, 2023. As part of the settlement, the parties agreed to a subsequent rate increase no sooner than August 1, 2024 – pending ANR’s completion of certain modernization projects – that will take the total increase to 15 percent compared to the previously approved rates. On April 4, 2024 ANR notified the parties that it had met the conditions for the rate increase and filed to implement the increase on July 1, 2024. The stepped-up rates, are reflected on **Attachment 1, Schedule 2, pages 1 and 2**.

b. WBI Interstate Transmission (RP23-377)

On January 27, 2023, WBI filed a Section 4 rate case (RP23-377) with FERC proposing a 49 percent maximum tariff rate increase to the integrated system, where NSP receives service. The parties in the FERC WBI rate case (RP23-377) reached a settlement in principle on August 10, 2023. The settlement agreement provides a savings to our customers of approximately \$338,918 per year from WBI’s filed position. WBI filed to place the settlement rates into effect subject to refund pending final approval of the settlement on August 18, 2023, and was approved on August 24, 2023. Final settlement documents were accepted by FERC on November 27, 2023. The final rates were included in the Supplement filed last year.

c. Viking Gas Transmission (RP23-917)

On July 31, 2023 Viking Gas Transmission (Viking) filed a general section 4 rate proceeding (RP23-917) with FERC. Viking proposed an average rate increase of approximately 81 percent to the maximum tariff rates. In addition, Viking proposed several changes to the balancing provisions of its tariff which would have had significant impact on the operations of NSP. On August 31, 2023, FERC issued an order suspending the rates for the maximum period, to be effective February 1, 2024 subject to refund, and set the case for hearing.

NSP, FERC Staff, active shippers and Viking participated in several settlement conferences and reached a settlement in principle on February 26, 2024. The

settlement results in a rate increase of approximately 48 percent, or an 18 percent lower than Viking's filed position. In addition, Viking agreed to withdraw its proposed balancing provisions. On February 29, 2024, Viking filed to implement the settlement rates effective February 1, 2024 on an interim basis while final settlement documents were drafted and awaiting Commission approval. The final settlement document was filed with FERC on April 30, 2024 and is currently awaiting Commission action. The settlement rates are reflected in **Attachment 1, Schedule 2, pages 1 and 2.**

4. *Change in Jurisdictional Allocations*

a. Change in Minnesota Jurisdiction Allocation Factor

The DD allocation factor decreased slightly for the Minnesota State jurisdiction from 86.80 percent to 86.42 percent. As in previous years, we calculate the allocation factor by dividing the DD forecasted demand for Minnesota by the DD demand for the Company. The Minnesota State, North Dakota State, and Company totals are provided on **Attachment 1, Schedule 1, page 1 of 5.** We used the traditional method of Avg. Monthly DD to update the allocation factors, since this approach accurately estimates the relationship of DD between the states and regional jurisdictions and accurately incorporates the monthly non-electronic pipeline measurements.

5. *Change in Supplier Reservation Fees*

The total change in supplier reservation charges is an increase of \$400. **Attachment 1, Schedule 2, page 1** lists the changes in Supply Entitlements. This includes the projected costs of delivered supply to meet design day requirements in lieu of purchasing Viking seasonal capacity as discussed above.

B. The Utility's Design Day demand by customer class and the change in DD demand, if any, necessitating the demand revision

We provide the DD demand and change in DD demand by class as **Attachment 1, Schedule 3.**

C. Reserve Margin

We propose to decrease our capacity reserve margin from 5.7 percent in November 2023 to 3.9 percent. The calculation of the reserve margin is noted in **Attachment 2, Schedule 1, page 3.** The decrease is due to projected customer growth and the expiration of seasonal capacity acquired last year. We believe this reserve margin is appropriate, given the need to balance the uncertainty of: (a) experiencing DD

conditions; (b) actual consumer demand during DD conditions; and (c) the need to protect against the potential loss of a source of firm natural gas supply. However, if NSP continues to experience customer and demand growth, it may need to add more resources in coming years.

We add firm resources to meet projected firm customer demand and plan to maintain a reserve margin as close as practicable to either the capability of the largest pump at Wescott used to vaporize LNG or to the capability of either of the St. Paul metro propane-air peak shaving plants. Capacity decisions are based on projected demand, and the most economic method of adding capacity often involves adding increments that do not precisely match expected changes in demand. The reserve margin ensures reliability for our firm natural gas customers in Minnesota. The proposed 2024-2025 heating season DD reserve margin for Minnesota State is 30,329 Dth/day or 3.9 percent.

D. Summary of the levels of winter versus summer usage for all customer classes

We provide the summary of winter and summer sales by class on **Attachment 1, Schedule 4, page 1 of 1**.

E. Description of Design Day gas supply from all sources under the new level allocation or form of demand

We provide our firm supply entitlements on **Attachment 1, Schedule 5, page 1 of 1**.

Northern States Power Company

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method

2024-2025 Heating Season

Service Region (1)	Projected Jan 2025 Firm Res & Comm Customers (2)	Contracted Demand by Small & Large Demand Billed Comm'l Customers (3a) (3b)		Load Variation (Dth/Degree) (4)	Degree per Design Day (5)	Monthly Base Use (Dth) (6)	Unacc. Factor (7)	Res & Comm Design Day (Dth) (8)	Total Design Day (Dth) (9)	Jurisdictional Allocation Factors (10)
METRO	344,961	77	12,826	0.0341905	91	1.1754159	0.0123	533,618	546,444	
BRAINERD	21,164	3	365	0.0263791	91	1.1595577	0.0123	28,340	28,704	
MAINLINE	15,690	9	2,483	0.0375732	88	1.1124827	0.0123	24,182	26,664	
MAINLINE-WELCOME	2,593	0	0	0.0194484	88	0.6162218	0.0123	3,135	3,135	
WILLMAR	11,058	4	998	0.0264314	88	0.9443545	0.0123	14,063	15,062	
PAYNESVILLE	44,165	26	4,104	0.0463157	94	1.2535048	0.0123	77,299	81,403	
VGT-CHISAGO	2,380	0	0	0.0166165	91	0.7245723	0.0123	2,820	2,820	
WATKINS	9,228	1	409	0.0196894	94	1.0115267	0.0123	11,844	12,253	
TOMAH	16,388	11	2,081	0.0355547	88	0.7132771	0.0123	24,253	26,333	
RED WING	7,238	6	1,901	0.0372846	88	1.2487869	0.0123	10,936	12,837	
GRAND FORKS MN	3,244	2	172	0.0398573	98	0.2187198	0.0123	4,823	4,996	
FARGO MN	15,259	7	2,808	0.0356480	98	0.0569044	0.0123	20,921	23,730	
MN State	493,367	146	28,148					756,234	784,382	86.42%
GRAND FORKS ND	16,750	0	0	0.0192965	98	2.2645098	0.0123	35,173	35,173	
FARGO ND	47,074	0	0	0.0166738	98	1.7669155	0.0123	85,098	85,098	
WBI ND	1,566	0	0	0.0172033	98	2.1388820	0.0123	2,939	2,939	
ND State	65,391	0	0					123,210	123,210	13.58%
TOTAL	558,757	146	28,148					879,444	907,592	100.00%

(1) Regional areas of the company.

(2) Estimated firm customers.

(3a) Firm Large and Small Commercial Demand Billed customers.

(3b) Firm contracted Design Day entitlement for Large and Small Commercial Demand Billed customers.

(4) Temperature dependent usage as determined by linear regression based on using 60 months January 2017 to December 2021.

(5) Degree Days for a Design Day in that region.

(6) Monthly base usage determined by linear regression based on using the same 60 months as in (4).

(7) Factor to correct for unaccounted gas usage.

(8) Estimated Design Day Demand for Firm Residential & Commercial Customers.

(9) Estimated Total Design Day for Firm Residential, Commercial, and Demand Billed Customers.

(10) Jurisdictional allocation factors based on percent of Total Company Design Day Demand.

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method

2024-2025 Heating Season

Division/Region (1)	Projected Firm Jan 2025 Cust (2)	Load Variation (Dth/Deg) (3) X Variable 1	DD/ Design Day (4)	Monthly Base Use (Dth) (5) Intercept	R-Square	T-Stat	P-Value	Lost & Unacc. Factor (6)	Design Day (Dth) 2025				2024 Design Day	Mcf Difference % Diff.	Gross-up to Peak Day Method	Peak Day Method Totals
									Unacc. Volume	Load Variation	Day Base	Total				
METRO																
Total Residential	322,174	0.0105631	91	1.1540175	0.9817	56.2464	0.0000	0.0123	3,948	309,686	12,230	325,863	324,907	956	18,045	343,908
Total Small Commercial	14,841	0.0301453	91	1.7381283	0.9694	43.2108	0.0000	0.0123	510	40,713	849	42,071	42,003	67	2,330	44,401
Total Large Commercial	7,946	0.1783024	91	27.1002243	0.9833	58.9852	0.0000	0.0123	1,668	128,933	7,084	137,685	133,440	4,245	7,624	145,309
Industrial	77	Contract Demand	-	-				-	-	-	-	12,826	13,957	(1,131)	-	12,826
	345,038	0.0341905		1.175415858					6,125	479,331	20,162	518,445	514,308	4,138 0.8%	27,999	546,444
BRAINERD																
Total Residential	19,471	0.0106217	91	1.1076634	0.9898	75.7840	0.0000	0.0123	240	18,821	709	19,770	19,070	699	1,095	20,864
Total Small Commercial	1,368	0.0196632	91	1.9038490	0.9693	43.1900	0.0000	0.0123	31	2,448	86	2,564	2,530	35	142	2,706
Total Large Commercial	325	0.1339616	91	47.6023426	0.9722	45.4213	0.0000	0.0123	55	3,956	508	4,519	4,323	196	250	4,769
Industrial	3	Contract Demand	-	-				-	-	-	-	365	365	0	-	365
	21,167	0.0263791		1.159557675					325	25,224	1,303	27,217	26,288	930 3.5%	1,487	28,704
MAINLINE																
Total Residential	14,190	0.0101720	88	1.1530582	0.9803	54.2309	0.0000	0.0123	162	12,702	538	13,403	13,507	(104)	742	14,145
Total Small Commercial	1,081	0.0249261	88	0.5976743	0.6361	10.2035	0.0000	0.0123	29	2,371	21	2,422	2,536	(114)	134	2,556
Total Large Commercial	418	0.1760201	88	37.8654361	0.9627	39.0308	0.0000	0.0123	86	6,481	521	7,088	6,890	198	392	7,480
Industrial	9	Contract Demand	-	-				-	-	-	-	2,483	2,483	0	-	2,483
	15,699	0.0375732		1.112482652					278	21,555	1,081	25,396	25,415	(19) -0.1%	1,269	26,664
MAINLINE-WELCOME																
Total Residential	2,446	0.0112308	88	0.5792185	0.8519	18.4529	0.0000	0.0123	30	2,418	47	2,495	2,463	32	138	2,633
Total Small Commercial	126	0.0169211	88	0.2484348	0.9015	23.2569	0.0000	0.0123	2	187	1	190	205	(14)	11	201
Total Large Commercial	21	0.1064122	88	128.7672684	0.1231	3.0471	0.0035	0.0123	3	194	88	285	287	(2)	16	301
Industrial	-	Contract Demand	-	-				-	-	-	-	-	-	0	-	-
	2,593	0.0194484		0.616221795					36	2,799	135	2,970	2,955	15 0.5%	164	3,135
WILLMAR																
Total Residential	10,250	0.0100995	88	0.9675081	0.9792	52.7115	0.0000	0.0123	116	9,110	326	9,551	8,945	607	529	10,080
Total Small Commercial	634	0.0231001	88	0.5114142	0.8567	18.8039	0.0000	0.0123	16	1,289	11	1,316	1,312	4	73	1,389
Total Large Commercial	174	0.1467989	88	31.3583358	0.9578	36.6281	0.0000	0.0123	30	2,249	180	2,458	2,283	175	136	2,594
Industrial	4	Contract Demand	-	-				-	-	-	-	998	998	0	-	998
	11,062	0.0264314		0.944354461					161	12,648	516	14,324	13,538	786 5.8%	738	15,062
PAYNESVILLE																
Total Residential	39,325	0.0098040	94	1.1691102	0.9919	85.0661	0.0000	0.0123	463	36,241	1,512	38,217	37,914	303	2,116	40,333
Total Small Commercial	3,281	0.0312159	94	2.3862518	0.9703	43.9529	0.0000	0.0123	121	9,629	258	10,007	12,080	(2,073)	554	10,562
Total Large Commercial	1,559	0.1583653	94	29.5360010	0.9822	57.0390	0.0000	0.0123	303	23,202	1,514	25,019	23,883	1,136	1,385	26,405
Industrial	26	Contract Demand	-	-				-	-	-	-	4,104	4,104	0	-	4,104
	44,191	0.0463157		1.253504787					887	69,072	3,284	77,348	77,982	(634) -0.8%	4,056	81,403
VGT-CHISAGO																
Total Residential	2,271	0.0109577	91	0.7298311	0.9590	37.1686	0.0000	0.0123	28	2,265	55	2,348	2,312	36	130	2,478
Total Small Commercial	96	0.0196528	91	0.5581682	0.9320	28.4589	0.0000	0.0123	2	172	2	176	183	(7)	10	185
Total Large Commercial	13	0.1270331	91	0.5631284	0.6200	9.8616	0.0000	0.0123	2	146	0	148	145	3	8	156
Industrial	-	Contract Demand	-	-				-	-	-	-	-	-	0	-	-
	2,380	0.0166165		0.72457226					32	2,583	57	2,672	2,640	32 1.2%	148	2,820

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method
2024-2025 Heating Season

Division/Region (1)	Projected Firm Jan 2025 Cust (2)	Load Variation (Dth/Deg) (3) X Variable 1	DD/ Design Day (4)	Monthly Base Use (Dth) (5) Intercept	R-Square	T-Stat	P-Value	Lost & Unacc. Factor (6)	Design Day (Dth) 2025				2024 Design Day	Mcf Difference % Diff.	Gross-up to Peak Day Method	Peak Day Method Totals
									Unacc. Volume	Load Variation	Day Base	Total				
WATKINS																
Total Residential	8,908	0.0103269	94	1.0056737	0.9596	37.4547	0.0000	0.0123	110	8,647	295	9,051	8,750	301	501	9,552
Total Small Commercial	238	0.0303429	94	1.1648228	0.8155	12.6689	0.0000	0.0123	8	679	9	696	680	16	39	735
Total Large Commercial	82	0.1821723	94	17.6281939	0.8651	19.4757	0.0000	0.0123	18	1,410	48	1,475	1,414	61	82	1,557
Industrial	1	Contract Demand	-	-				-	-	-	-	409	409	0	-	409
	9,229	0.0196894		1.011526671					136	10,735	352	11,632	11,253	379 3.4%	621	12,253
TOMAH																
Total Residential	14,738	0.0098340	88	0.4459853	0.9762	49.1725	0.0000	0.0123	159	12,754	216	13,129	13,222	(92)	727	13,856
Total Small Commercial	1,243	0.0248322	88	3.7781264	0.9436	31.4250	0.0000	0.0123	35	2,716	154	2,905	2,927	(21)	161	3,066
Total Large Commercial	407	0.1835079	88	21.4776769	0.9760	48.9556	0.0000	0.0123	84	6,574	288	6,945	6,761	185	385	7,330
Industrial	11	Contract Demand	-	-				-	-	-	-	2,081	1,879	201	-	2,081
	16,399	0.0355547		0.713277079					278	22,044	658	25,061	24,788	273 1.1%	1,273	26,333
RED WING																
Total Residential	6,518	0.0100646	88	1.0922410	0.9876	68.4480	0.0000	0.0123	74	5,773	234	6,081	6,665	(584)	337	6,418
Total Small Commercial	527	0.0220229	88	3.2394271	0.9564	35.9998	0.0000	0.0123	13	1,021	56	1,091	1,203	(113)	60	1,151
Total Large Commercial	193	0.1758292	88	26.8598864	0.9732	46.3130	0.0000	0.0123	39	2,982	170	3,191	3,243	(52)	177	3,367
Industrial	6	Contract Demand	-	-				-	-	-	-	1,901	1,677	224	-	1,901
	7,244	0.0372846		1.248786921					126	9,776	461	12,263	12,788	(525) -4.1%	574	12,837
GRAND FORKS MN																
Total Residential	2,890	0.0095604	98	0.0876163	0.9638	39.6482	0.0000	0.0123	33	2,708	8	2,749	2,629	120	152	2,901
Total Small Commercial	258	0.0205245	98	1.3280972	0.9516	34.0710	0.0000	0.0123	6	519	11	536	234	303	30	566
Total Large Commercial	96	0.1283746	98	18.0366623	0.9833	59.0138	0.0000	0.0123	16	1,212	57	1,285	1,298	(14)	71	1,356
Industrial	2	Contract Demand	-	-				-	-	-	-	172	172	0	-	172
	3,246	0.0398573		0.218719803					55	4,438	77	4,742	4,334	409 9.4%	253	4,996
FARGO MN																
Total Residential	13,732	0.0083246	98	0.0168656	0.9821	56.8596	0.0000	0.0123	137	11,203	8	11,348	10,877	471	628	11,976
Total Small Commercial	1,121	0.0212042	98	0.1783277	0.9217	26.3673	0.0000	0.0123	29	2,329	7	2,364	2,377	(12)	131	2,495
Total Large Commercial	406	0.1412599	98	31.2409875	0.9789	52.3090	0.0000	0.0123	74	5,620	417	6,111	5,850	262	338	6,450
Industrial	7	Contract Demand	-	-				-	-	-	-	2,808	2,808	0	-	2,808
	15,266	0.0356480		0.056904423					240	19,152	431	22,632	21,912	720 3.3%	1,098	23,730
MN STATE																
Total Residential	456,913											454,004	451,260	2,745	25,141	479,145
Total Small Commercial	24,814											66,339	68,269	-1,929	3,674	70,013
Total Large Commercial	11,640											196,209	189,817	6,392	10,865	207,075
Contract Demand	146											28,148	28,854	-706	0	28,148
	493,513											744,702	738,199	6,502 0.9%	39,680	784,382

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method
2024-2025 Heating Season

Division/Region (1)	Projected Firm Jan 2025 Cust (2)	Load Variation (Dth/Deg) (3) X Variable 1	DD/ Design Day (4)	Monthly Base Use (Dth) (5) Intercept	R-Square	T-Stat	P-Value	Lost & Unacc. Factor (6)	Design Day (Dth) 2025				2024 Design Day	Mcf Difference % Diff.	Gross-up to Peak Day Method	Peak Day Method Totals
									Unacc. Volume	Load Variation	Day Base	Total				
GRAND FORKS ND																
Total Residential	14,401	0.0092083	98	0.3007855	0.9823	57.3072	0.0000	0.0123	161	12,996	142	13,299	13,134	166	736	14,036
Total Small Commercial	2,349	0.0811350	98	14.3017336	0.9323	28.5209	0.0000	0.0123	243	18,680	1,105	20,028	18,165	1,864	1,109	21,137
Total Large Commercial	-	-	98	-	0.0000	0.0000	0.0000	0.0123	0	0	0	0	0	0	0	0
Industrial	-	Contract Demand	-	-				-	-	-	-	-	-	0	-	-
	16,750	0.0192965		2.264509789					404	31,676	1,248	33,328	31,298	2,029 6.5%	1,846	35,173
FARGO ND																
Total Residential	39,875	0.0087091	98	0.2459548	0.9753	48.3210	0.0000	0.0123	421	34,033	323	34,777	33,833	944	1,926	36,702
Total Small Commercial	7,199	0.0607873	98	10.1909683	0.9757	48.6567	0.0000	0.0123	556	42,888	2,413	45,857	44,083	1,774	2,539	48,396
Total Large Commercial	-	-	98	-	0.0000	0.0000	0.0000	0.0123	0	0	0	0	0	0	0	0
Industrial	-	Contract Demand	-	-				-	-	-	-	-	-	0	-	-
	47,074	0.0166738		1.766915492					977	76,920	2,736	80,633	77,915	2,718 3.5%	4,465	85,098
WBL ND																
Total Residential	1,353	0.0101269	98	0.7987698	0.9627	39.0341	0.0000	0.0123	17	1,343	36	1,395	1,315	80	77	1,472
Total Small Commercial	213	0.0620858	98	10.6386481	0.7296	12.6562	0.0000	0.0123	17	1,298	75	1,389	1,530	(140)	77	1,466
Total Large Commercial	-	-	98	-	0.0000	0.0000	0.0000	0.0123	0	0	0	0	0	0	0	0
Industrial	-	Contract Demand	-	-				-	-	-	-	-	-	0	-	-
	1,566	0.0172033		2.138882026					34	2,640	110	2,784	2,845	(61) -2.1%	154	2,939
ND STATE																
Total Residential	55,629											49,471	48,282	1,189	2,739	52,211
Total Small Commercial	9,762											67,274	63,777	3,497	3,725	70,999
Total Large Commercial	0											-	-	-	-	-
Contract Demand	0											-	-	-	-	-
	65,391											116,745	112,059	4,687 4.2%	6,465	123,210
Grand Total																
Total Residential	512,542											503,476	499,541	3,934	27,880	531,356
Total Small Commercial	34,576											133,614	132,046	1,568	7,399	141,013
Total Large Commercial	11,640											196,209	189,817	6,392	10,865	207,075
Contract Demand	146											28,148	28,854	(706)	-	28,148
	558,903											861,447	850,258	11,189	46,144	907,591

CUSTOMERS BY AREA (EXCLUDING DEMAND BILLED)

<u>Area</u>	<u>2025 FORECAST</u>	<u>2024 FORECAST</u>	<u>Difference</u>	<u>% Diff</u>
METRO	344,961	341,551	3,410	1.0%
BRAINERD	21,164	20,490	674	3.3%
MAINLINE	15,690	15,774	(84)	-0.5%
MAINLINE-WELCOME	2,593	2,601	(8)	-0.3%
WILLMAR	11,058	10,427	631	6.0%
PAYNESVILLE	44,165	43,411	754	1.7%
VGT-CHISAGO	2,380	2,344	36	1.5%
WATKINS	9,228	8,947	280	3.1%
TOMAH	16,388	16,235	153	0.9%
RED WING	7,238	7,887	(650)	-8.2%
GRAND FORKS MN	3,244	3,212	31	1.0%
FARGO MN	15,259	15,048	211	1.4%
MN STATE	493,367	487,929	5,437	1.1%
GRAND FORKS ND	16,750	16,441	310	1.9%
FARGO ND	47,074	45,731	1,343	2.9%
WBI ND	1,566	1,509	57	3.8%
ND STATE	65,391	63,681	1,710	2.7%
TOTAL NSP MN	558,757	551,610	7,147	1.3%

2025 Customer Counts

	<u>MN</u>	<u>ND</u>	
Res	456,913	55,629	512,542
Sm Com	24,814	9,762	34,576
Lg Com	11,640	0	11,640
Ind	146	0	146
	493,513	65,391	558,903

2025 Design Day Use By Customer Class

	<u>MN</u>	<u>ND</u>	
Res	479,145	52,211	531,356
Sm Com	70,013	70,999	141,013
Lg Com	207,075	0	207,075
Ind	28,148	0	28,148
	784,381	123,210	907,592

DESIGN DAY MMBTU DEMAND BY AREA

<u>Area</u>	<u>2025 FORECAST</u>	<u>2024 FORECAST</u>	<u>Difference</u>	<u>% Diff</u>
METRO	546,444	542,809	3,635	0.7%
BRAINERD	28,704	27,765	940	3.4%
MAINLINE	26,664	26,721	(57)	-0.2%
MAINLINE-WELCOME	3,135	3,123	11	0.4%
WILLMAR	15,062	14,252	809	5.7%
PAYNESVILLE	81,403	82,190	(786)	-1.0%
VGT-CHISAGO	2,820	2,790	29	1.1%
WATKINS	12,253	11,871	382	3.2%
TOMAH	26,333	26,093	240	0.9%
RED WING	12,837	13,421	(584)	-4.4%
GRAND FORKS MN	4,996	4,571	425	9.3%
FARGO MN	23,730	23,000	730	3.2%
MN STATE	784,381	778,606	5,775	0.7%
GRAND FORKS ND	35,173	33,081	2,092	6.3%
FARGO ND	85,098	82,354	2,745	3.3%
WBI ND	2,939	3,007	(69)	-2.3%
ND STATE	123,210	118,442	4,768	4.0%
TOTAL NSP MN	907,591	897,048	10,543	1.2%

MN / ND Allocation Factors

<u>2025 DD</u>	<u>2024 DD</u>	
0.8642	0.8680	MN State Allocation
0.1358	0.1320	ND State Allocation

<u>NNG SYSTEM</u>	<u>2025 FORECAST</u>	<u>2024 FORECAST</u>	<u>Difference</u>	<u>% Diff</u>
METRO	546,444	542,809	3,635	0.7%
BRAINERD	28,704	27,765	940	3.4%
MAINLINE	26,664	26,721	(57)	-0.2%
MAINLINE-WELCOME	3,135	3,123	11	0.4%
WILLMAR	15,062	14,252	809	5.7%
PAYNESVILLE	81,403	82,190	(786)	-1.0%
WATKINS	12,253	11,871	382	3.2%
TOMAH	26,333	26,093	240	0.9%
RED WING	12,837	13,421	(584)	-4.4%
NNG SUBTOTAL	752,836	748,245	4,591	0.6%

VGT SYSTEM

VGT-CHISAGO	2,820	2,790	29	1.1%
GRAND FORKS MN	4,996	4,571	425	9.3%
FARGO MN	23,730	23,000	730	3.2%
GRAND FORKS ND	35,173	33,081	2,092	6.3%
FARGO ND	85,098	82,354	2,745	3.3%
WBI ND	2,939	3,007	(69)	-2.3%
VGT SUBTOTAL	154,755	148,803	5,952	4.0%
VGT & NNG TOTAL	907,591	897,048	10,543	1.2%

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Northern States Power Company
DEMAND COST OF GAS IMPACT - NOVEMBER 2024

Docket No. G002/M-24-____
Contract Demand Entitlements-Petition
Attachment 1, Schedule 2
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CHANGE IN CONTRACT DEMAND ENTITLEMENTS

Contract Demand Entitlement Changes	Volume Dth/Day	Current Monthly Demand Rates	No. of Months	Total Annual Cost
ANR FTS-1 (Jan-July) ¹	(66,500)	\$ 6.4738	9	\$ (3,874,569.30)
ANR FTS-1 (Jan-July) ¹	66,500	\$ 6.5884	9	\$ 3,943,157.40
ANR FTS-1 (Nov-Mar) ¹	(15,171)	\$ 6.4738	5	\$ (491,070.10)
ANR FTS-1 (Nov-Mar) ¹	15,171	\$ 6.5884	5	\$ 499,763.08
ANR FTS-1 (Apr-July) ¹	(5,450)	\$ 6.4738	4	\$ (141,128.84)
ANR FTS-1 (Apr-July) ¹	5,450	\$ 6.5884	4	\$ 143,627.12
ANR FTS-1 (Jan-July) ¹	(22,000)	\$ 6.4738	9	\$ (1,281,812.40)
ANR FTS-1 (Jan-July) ¹	22,000	\$ 6.5884	9	\$ 1,304,503.20
ANR FTS-1 (Jan-Dec) ¹	(4,829)	\$ 9.1300	12	\$ (529,065.24)
ANR FTS-1 (Jan-Dec) ¹	4,829	\$ 14.0900	12	\$ 816,487.32
ANR FSS (Jan-Dec) ²	(15,267)	\$ 1.6797	12	\$ (307,727.76)
ANR FSS (Jan-Dec) ²	15,267	\$ 2.1126	12	\$ 387,036.77
ANRS FSS (Apr-Dec) ²	(9,248)	\$ 1.4160	7	\$ (91,666.18)
ANRS FSS (Apr-Dec) ²	9,248	\$ 3.4645	7	\$ 224,277.87
ANR FSS (Jan-Dec) ²	(41)	\$ 2.1126	12	\$ (1,039.40)
ANR FTS-1 (Apr-July) ¹	(17)	\$ 6.5884	7	\$ (784.02)
[PROTECTED DATA BEGINS]				
NNG TF12-Base (Nov-Mar) ⁴	(104,117)			
NNG TF12-Base (Nov-Mar) ⁴	104,117			
NNG TF12-Base (Apr-Oct) ³	(104,117)			
NNG TF12-Base (Apr-Oct) ³	104,117			
NNG TF5 (Nov-Mar) ⁴	(62,415)			
NNG TF5 (Nov-Mar) ⁴	62,415			
NNG TFX (Nov-Mar) ⁵	(36,630)			
NNG TFX (Nov-Mar) ⁵	36,630			
NNG TFX (Apr-Oct) ⁵	(20,303)			
NNG TFX (Apr-Oct) ⁵	1,000			
NNG TFX (Apr-Oct) ⁵	20,303			
NNG TFX (Apr-Oct) ⁵	1,000			
PROTECTED DATA ENDS]				
NNG TFX (Nov-Mar) ⁵	2,506	\$ 25.7990	5	\$ 323,261.47
NNG TFX (Apr-Oct) ⁵	2,506	\$ 9.6760	7	\$ 169,736.39
NNG TFX (Nov-Mar) ⁵	905	\$ 9.3568	5	\$ 42,339.52
NNG TFX (Apr-Oct) ⁵	905	\$ 4.0000	7	\$ 25,340.00
NNG TFX (Nov-Mar) ⁵	350	\$ 25.7990	5	\$ 45,148.25
NNG TFX (Apr-Oct) ⁵	350	\$ 9.6760	7	\$ 23,706.20
NNG TFX (Nov-Mar) ⁵	(4,913)	\$ 25.7990	5	\$ (633,752.44)
NNG TFX (Apr-Oct) ⁵	(4,913)	\$ 9.6760	7	\$ (332,767.32)
VGT FT-A (Nov-Jan) ³	(2,500)	\$ 3.8060	3	\$ (28,545.00)
VGT FT-A (Feb-Oct) ³	(2,500)	\$ 6.9226	9	\$ (155,758.50)
VGT FT-A (Jan-Dec) ³	2,500	\$ 5.6200	12	\$ 168,600.00
VGT FT-A (Nov-Jan) ³	(72,213)	\$ 4.7580	3	\$ (1,030,768.36)
VGT FT-A (Feb-Oct) ³	(72,213)	\$ 9.0132	9	\$ (5,857,831.90)
VGT FT-A (Jan-Dec) ³	72,213	\$ 7.3778	12	\$ 6,393,276.86
VGT FT-A (Nov-Jan) ³	(4,239)	\$ 3.8060	3	\$ (48,400.90)
VGT FT-A (Feb-Mar) ³	(4,239)	\$ 6.9226	2	\$ (58,689.80)
VGT FT-A (Feb-Mar) ³	4,239	\$ 5.6200	5	\$ 119,115.90
VGT FT-A (Nov-Jan) ³	(32,405)	\$ 3.8060	3	\$ (370,000.29)
VGT FT-A (Feb-Oct) ³	(32,405)	\$ 6.9226	9	\$ (2,018,941.68)
VGT FT-A (Jan-Dec) ³	32,405	\$ 5.6200	12	\$ 2,185,393.20
VGT FT-A (Nov-Jan) ³	(10,000)	\$ 3.8060	3	\$ (114,180.00)
VGT FT-A (Feb-Oct) ³	(10,000)	\$ 6.9226	9	\$ (623,034.00)
VGT FT-A (Jan-Dec) ³	10,000	\$ 5.6200	12	\$ 674,400.00
VGT FT-A (Nov-Jan) ³	(15,600)	\$ 4.7580	3	\$ (222,674.40)
VGT FT-A (Feb-Oct) ³	(15,600)	\$ 9.0132	9	\$ (1,265,453.28)
VGT FT-A (Jan-Dec) ³	15,600	\$ 7.3778	12	\$ 1,381,124.16
VGT FT-A (Nov-Jan) ³	(15,000)	\$ 4.7580	3	\$ (214,110.00)
VGT FT-A (Feb-Oct) ³	(15,000)	\$ 9.0132	9	\$ (1,216,782.00)
VGT FT-A (Jan-Dec) ³	15,000	\$ 7.3778	12	\$ 1,328,004.00
VGT FT-A (Nov-Jan) ³	(20,200)	\$ 3.8060	3	\$ (230,643.60)
VGT FT-A (Feb-Oct) ³	(20,200)	\$ 6.9226	9	\$ (1,258,528.68)
VGT FT-A (Jan-Dec) ³	20,200	\$ 5.6200	12	\$ 1,362,288.00
VGT FT-A (Nov-Jan) ³	(22,000)	\$ 4.7580	3	\$ (314,028.00)
VGT FT-A (Feb-Oct) ³	(22,000)	\$ 9.0132	9	\$ (1,784,613.60)
VGT FT-A (Jan-Dec) ³	22,000	\$ 7.3778	12	\$ 1,947,739.20
Total				\$ (990,091.20)
Supplier Entitlement Changes				
Change in Supplier Reservation Fees				
[PROTECTED DATA BEGINS]				
PROTECTED DATA ENDS]				
Total	(4,000)			\$ 399.56
Total MN & ND Demand Cost Adjustment				\$ (989,691.64)
Minnesota Allocation Factor (MN/ND Allocated Demand)				86.42%
MN only Demand Cost Adjustment due to MN/ND Allocated Demand				\$ (855,335.95)

¹ ANR Third Revised Volume No. 1, Part 4.9 - Statement of Rates, v.40.1 Effective November 1, 2022

² ANR Third Revised Volume No. 1, Part 4.3 - Statement of Rates, Effective August 1, 2024

³ VGT Volume No. 1, Part 5.0 - Statement of Rates, v.60.0.0, Effective April 1, 2024

⁴ NNG Sixth Revised Volume No. 1, Twenty First Revised Sheet No. 50, Effective May 1, 2023

⁵ NNG Sixth Revised Volume No. 1, Twenty Fourth Revised Sheet No. 51, Effective May 1, 2023

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Northern States Power Company
Demand Cost Changes from Prior Year

Docket No. G002/M-24____
Contract Demand Entitlements-Petition
Attachment 1, Schedule 2
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	Volume	Rate	Months	Annual Cost	Winter Cost	Total Cost	Minnesota Deliverable	North Dakota Deliverable	Upstream/System Supply	Footnote
2023 SUPPLEMENTAL FILED COSTS				\$51,992,525.48	\$35,788,393.38	\$87,780,918.86				
2023 CHANGES FILED COMPARED TO ACTUAL COSTS										
Total				\$ -	\$ -	\$ -				
2023 ACTUAL COSTS				\$ 51,992,525.48	\$ 35,788,393.38	\$ 87,780,918.86				
CHANGES FOR 2024 FILING										
Contract Demand Entitlement Changes										
ANR FTS-1 (Jan-July)	(66,500)	\$ 6.4738	9	\$ (3,874,569.30)		\$ (3,874,569.30)			\$ (3,874,569.30)	1
ANR FTS-1 (Jan-July)	66,500	\$ 6.5884	9	\$ 3,943,157.40		\$ 3,943,157.40			\$ 3,943,157.40	1
ANR FTS-1 (Nov-Mar)	(15,171)	\$ 6.4738	5		\$ (491,070.10)	\$ (491,070.10)			\$ (491,070.10)	1
ANR FTS-1 (Nov-Mar)	15,171	\$ 6.5884	5		\$ 499,763.08	\$ 499,763.08			\$ 499,763.08	1
ANR FTS-1 (Apr-July)	(5,450)	\$ 6.4738	4		\$ (141,128.84)	\$ (141,128.84)			\$ (141,128.84)	1
ANR FTS-1 (Apr-July)	5,450	\$ 6.5884	4		\$ 143,627.12	\$ 143,627.12			\$ 143,627.12	1
ANR FTS-1 (Jan-July)	(22,000)	\$ 6.4738	9	\$ (1,281,812.40)		\$ (1,281,812.40)			\$ (1,281,812.40)	1
ANR FTS-1 (Jan-July)	22,000	\$ 6.5884	9	\$ 1,304,503.20		\$ 1,304,503.20			\$ 1,304,503.20	1
ANR FTS-1 (Jan-Dec)	(4,829)	\$ 9.1300	12	\$ (529,065.24)		\$ (529,065.24)			\$ (529,065.24)	2
ANR FTS-1 (Jan-Dec)	4,829	\$ 14.0900	12	\$ 816,487.32		\$ 816,487.32			\$ 816,487.32	2
ANR FSS (Jan-Dec)	(15,267)	\$ 1.6797	12		\$ (307,727.76)	\$ (307,727.76)			\$ (307,727.76)	2
ANR FSS (Jan-Dec)	15,267	\$ 2.1126	12		\$ 387,036.77	\$ 387,036.77			\$ 387,036.77	2
ANRS FSS (Apr-Dec)	(9,248)	\$ 1.4160	7		\$ (91,666.18)	\$ (91,666.18)			\$ (91,666.18)	2
ANRS FSS (Apr-Dec)	9,248	\$ 3.4645	7		\$ 224,277.87	\$ 224,277.87			\$ 224,277.87	2
ANR FSS (Jan-Dec)	(41)	\$ 2.1126	12		\$ (1,039.40)	\$ (1,039.40)			\$ (1,039.40)	3
ANR FTS-1 (Apr-July)	(17)	\$ 6.5884	7		\$ (784.02)	\$ (784.02)			\$ (784.02)	3
[PROTECTED DATA BEGINS]										
NNG TF12-Base (Nov-Mar)	(104,117)									4
NNG TF12-Base (Nov-Mar)	104,117									4
NNG TF12-Base (Apr-Oct)	(104,117)									4
NNG TF12-Base (Apr-Oct)	104,117									4
NNG TF5 (Nov-Mar)	(62,415)									4
NNG TF5 (Nov-Mar)	62,415									4
NNG TFX (Nov-Mar)	(36,630)									4
NNG TFX (Nov-Mar)	36,630									4
NNG TFX (Apr-Oct)	(20,303)									4
NNG TFX (Apr-Oct)	(1,000)									4
NNG TFX (Apr-Oct)	20,303									4
NNG TFX (Apr-Oct)	1,000									4
[PROTECTED DATA BEGINS]										
NNG TFX (Nov-Mar)	2,506	\$ 25.7990	5		\$ 323,261.47	\$ 323,261.47	\$ 323,261.47			5
NNG TFX (Apr-Oct)	2,506	\$ 9.6760	7	\$ 169,736.39		\$ 169,736.39	\$ 169,736.39			5
[PROTECTED DATA BEGINS]										
NNG TFX (Nov-Mar)	905									5
NNG TFX (Apr-Oct)	905									5
[PROTECTED DATA BEGINS]										
NNG TFX (Nov-Mar)	350	\$ 25.7990	5		\$ 45,148.25	\$ 45,148.25	\$ 45,148.25			5
NNG TFX (Apr-Oct)	350	\$ 9.6760	7	\$ 23,706.20		\$ 23,706.20	\$ 23,706.20			5
NNG TFX (Nov-Mar)	(4,913)	\$ 25.7990	5		\$ (633,752.44)	\$ (633,752.44)	\$ (633,752.44)			6
NNG TFX (Apr-Oct)	(4,913)	\$ 9.6760	7	\$ (332,767.32)		\$ (332,767.32)	\$ (332,767.32)			6
VGT FT-A (Nov-Jan)	(2,500)	\$ 3.8060	3	\$ (28,545.00)		\$ (28,545.00)		\$ (28,545.00)		7
VGT FT-A (Feb-Oct)	(2,500)	\$ 6.9226	9	\$ (155,758.50)		\$ (155,758.50)		\$ (155,758.50)		7
VGT FT-A (Jan-Dec)	2,500	\$ 5.6200	12	\$ 168,600.00		\$ 168,600.00		\$ 168,600.00		7
VGT FT-A (Nov-Jan)	(72,213)	\$ 4.7580	3	\$ (1,030,768.36)		\$ (1,030,768.36)		\$ (1,030,768.36)		7
VGT FT-A (Feb-Oct)	(72,213)	\$ 9.0132	9	\$ (5,857,831.90)		\$ (5,857,831.90)		\$ (5,857,831.90)		7
VGT FT-A (Jan-Dec)	72,213	\$ 7.3778	12	\$ 6,393,276.86		\$ 6,393,276.86		\$ 6,393,276.86		7
VGT FT-A (Nov-Jan)	(4,239)	\$ 3.8060	3	\$ (48,400.90)		\$ (48,400.90)		\$ (48,400.90)		7
VGT FT-A (Feb-Mar)	(4,239)	\$ 6.9226	2	\$ (58,689.80)		\$ (58,689.80)		\$ (58,689.80)		7
VGT FT-A (Feb-Mar)	4,239	\$ 5.6200	5	\$ 119,115.90		\$ 119,115.90		\$ 119,115.90		7
VGT FT-A (Nov-Jan)	(32,405)	\$ 3.8060	3	\$ (370,000.29)		\$ (370,000.29)		\$ (370,000.29)		7
VGT FT-A (Feb-Oct)	(32,405)	\$ 6.9226	9	\$ (2,018,941.68)		\$ (2,018,941.68)		\$ (2,018,941.68)		7
VGT FT-A (Jan-Dec)	32,405	\$ 5.6200	12	\$ 2,185,393.20		\$ 2,185,393.20		\$ 2,185,393.20		7
VGT FT-A (Nov-Jan)	(10,000)	\$ 3.8060	3	\$ (114,180.00)		\$ (114,180.00)		\$ (114,180.00)		7
VGT FT-A (Feb-Oct)	(10,000)	\$ 6.9226	9	\$ (623,034.00)		\$ (623,034.00)		\$ (623,034.00)		7
VGT FT-A (Jan-Dec)	10,000	\$ 5.6200	12	\$ 674,400.00		\$ 674,400.00		\$ 674,400.00		7
VGT FT-A (Nov-Jan)	(15,600)	\$ 4.7580	3	\$ (222,674.40)		\$ (222,674.40)		\$ (222,674.40)		7
VGT FT-A (Feb-Oct)	(15,600)	\$ 9.0132	9	\$ (1,265,453.28)		\$ (1,265,453.28)		\$ (1,265,453.28)		7
VGT FT-A (Jan-Dec)	15,600	\$ 7.3778	12	\$ 1,381,124.16		\$ 1,381,124.16		\$ 1,381,124.16		7
VGT FT-A (Nov-Jan)	(15,000)	\$ 4.7580	3	\$ (214,110.00)		\$ (214,110.00)		\$ (214,110.00)		7
VGT FT-A (Feb-Oct)	(15,000)	\$ 9.0132	9	\$ (1,216,782.00)		\$ (1,216,782.00)		\$ (1,216,782.00)		7
VGT FT-A (Jan-Dec)	15,000	\$ 7.3778	12	\$ 1,328,004.00		\$ 1,328,004.00		\$ 1,328,004.00		7
VGT FT-A (Nov-Jan)	(20,200)	\$ 3.8060	3	\$ (230,643.60)		\$ (230,643.60)		\$ (230,643.60)		7
VGT FT-A (Feb-Oct)	(20,200)	\$ 6.9226	9	\$ (1,258,528.68)		\$ (1,258,528.68)		\$ (1,258,528.68)		7
VGT FT-A (Jan-Dec)	20,200	\$ 5.6200	12	\$ 1,362,288.00		\$ 1,362,288.00		\$ 1,362,288.00		7
VGT FT-A (Nov-Jan)	(22,000)	\$ 4.7580	3	\$ (314,028.00)		\$ (314,028.00)		\$ (314,028.00)		7
VGT FT-A (Feb-Oct)	(22,000)	\$ 9.0132	9	\$ (1,784,613.60)		\$ (1,784,613.60)		\$ (1,784,613.60)		7
VGT FT-A (Jan-Dec)	22,000	\$ 7.3778	12	\$ 1,947,739.20		\$ 1,947,739.20		\$ 1,947,739.20		7
Total				\$ (1,022,016.83)	\$ 31,925.61	\$ (990,091.22)	\$ (337,038.07)	\$ (1,253,042.67)	\$ 599,989.52	
Supplier Entitlement Changes										
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SUMMARY OF DESIGN DAY DEMAND BY CUSTOMER CLASS

Design Day: Heating Season 2024-2025

Contract Demand Entitlements-Petition

Attachment 1, Schedule 3

Page 1 of 2

DESIGN DAY CALCULATION

	Jan-2025 Budget Customer	2025 MMBtu Design Day ¹	2024 MMBtu Design Day ¹	MMBtu Change
<u>State of Minnesota</u>				
Residential	456,913	479,145	476,965	2,180
Commercial	36,453	277,088	272,787	4,301
Demand Billed	146	28,148	28,854	(706)
State of Minnesota Total	493,513	784,382	778,606	5,776
State of North Dakota Total	65,391	123,210	118,442	4,768
Total Xcel Energy - Gas Utility Operations	558,903	907,592	897,048	10,544

¹ 91 Heating Degree Days for Design Day**DESIGN DAY ESTIMATE FROM ACTUAL USE PER CUSTOMER****UPC DD Method**

	Jan-2025 Budget Customer	Jan-2024 Budget Customer	Change
<u>Minnesota Company</u>			
Residential	512,542	505,929	6,613
Commercial	46,215	45,681	534
TOTAL	558,757	551,610	7,147
Peak Day Use/Cust ²	1.57393	1.57393	
Peak Day Res. & Comm. MMBtus	879,443	868,195	
Demand Billed Customers	146	150	
Contracted Billing Demand of Demand Billed Customers	28,148	28,854	
Projected Design Day (Dth)	907,591	897,048	10,544

² Determined from Peak Day usage at an average temperature of -15 degrees Fahrenheit on Thursday, Jan. 29, 2004**MINNESOTA COMPANY ENTITLEMENT ESTIMATE PER CUSTOMER**

	Jan-2025 Budget	Jan-2024 Budget
Reserve Margin	35,093	50,788
Total Available Capacity	942,684	947,836
Entitlement per Customer	1.6867	1.7178

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Northern States Power Company

DERIVATION OF ACTUAL PEAK DAY USE PER CUSTOMER

Design Day: Heating Season 2024-2025

Docket No. G002/M-24-____
Contract Demand Entitlements-Petition
Attachment 1, Schedule 3
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<u>Description</u>	<u>Values</u>	<u>Units</u>	<u>Equation</u>
(1) Date of Peak Day	January 29, 2004		
(2) Day of the Week	Thursday		
(3) Total Throughput including Peakshaving	648,400	Dth	
(4) Actual Large and Small Comm'l Demand Billed Usage	(13,863)	Dth	
(5) Total Throughput including Peakshaving less Demand Billed	634,537	Dth	(5) = (3) - (4)
(6) Interruptible Customers Status	All Curtailed		
(7) Average Actual Gas Day Temperature	-15	Deg F	
(8) Heating Degree Days (HDD) 65 degree base	80	HDDs	(8) = 65 - (7)
[PROTECTED DATA BEGINS]			
(9) Limited Firm/Standby Dth Demand on system		Dth	
(10) Total Firm Throughput less Ltd F/Stdby & Demand Billed Customers		Dth	(10) = (5) + (9)
(11) 2004 Non-HDD Sensitive Base Dth ¹		Dth	
(12) Total HDD sensitive Firm throughput		Dth	(12) = (10) + (11)
(13) Actual Peak Day Dth/HDD		Dth/HDD	(13) = (12) / (8)
PROTECTED DATA ENDS]			
(14) Base + (Actual Dth/HDD * 91 HDDs)	695,134	Dth	(14) = -(11) + [(13) x 91 HDDs]
(15) Base + (Actual Dth/HDD * 91 HDDs) + Actual Demand Billed Usage	708,997		(15) = (14) + -(4)
(16) Average Monthly Projected 2004 Design Day ¹	677,930	Dth	
(17) Actual Peak Day UPC vs. Avg Monthly Design Day	(31,067)	Dth	(17) = (16) - (15)
(18) Average Monthly 2004 Design Day Reserve Margin ¹	44,733	Dth	
(19) Actual 2004 Reserve Margin based on Peak Actuals	13,666	Dth	(19) = (18) + (17)
(20) January 2004 Projected Firm Residential & Comm'l Customers ¹	441,656	Customers	
(21) Peak Day Actual Use Per Residential & Comm'l Firm Customer	1.57393	Dth/customer	(21) = (14) / (20)

¹As described in Company's 2003 - 2004 Contract Demand Filing

Customer Class

	Jul-2023	Aug-2023	Sep-2023	Oct-2023	Nov-2023	Dec-2023	Jan-2024	Feb-2024	Mar-2024	Apr-2024	May-2024	Jun-2024	Total	Winter	Summer
Residential	655,758	657,465	643,217	1,037,319	2,678,294	4,538,495	6,124,904	5,433,347	4,408,994	3,821,910	1,781,583	826,590	32,607,875	23,184,033	9,423,842
Interdepartmental	192	180	192	225	441	838	941	1,217	886	811	585	221	6,729	4,323	2,406
Small Commercial Firm	86,423	85,475	85,934	133,495	352,227	632,764	875,729	863,051	734,574	577,157	264,475	115,008	4,806,311	3,458,344	1,347,967
<u>Large Commercial Firm</u>	<u>395,552</u>	<u>407,387</u>	<u>389,393</u>	<u>599,156</u>	<u>1,321,610</u>	<u>2,073,746</u>	<u>2,623,256</u>	<u>2,577,650</u>	<u>2,079,886</u>	<u>1,819,574</u>	<u>1,030,120</u>	<u>514,521</u>	<u>15,831,850</u>	<u>10,676,147</u>	<u>5,155,703</u>
Commercial Firm	482,167	493,043	475,519	732,875	1,674,278	2,707,347	3,499,926	3,441,918	2,815,345	2,397,542	1,295,181	629,749	20,644,889	14,138,813	6,506,076
Small Commercial Demand Billed	5,941	7,251	3,866	8,655	6,478	11,846	12,028	17,077	12,900	14,924	8,442	5,373	114,780	60,329	54,451
Large Commercial Demand Billed	138,529	137,271	142,495	143,299	209,938	279,192	295,246	313,304	284,014	254,405	183,568	154,189	2,535,450	1,381,694	1,153,755
<u>Large Demand Billed - Generation</u>	<u>7,477</u>	<u>7,620</u>	<u>2,396</u>	<u>9,764</u>	<u>12,605</u>	<u>13,327</u>	<u>6,387</u>	<u>11,377</u>	<u>11,547</u>	<u>5,562</u>	<u>567</u>	<u>904</u>	<u>89,532</u>	<u>55,243</u>	<u>34,289</u>
Commercial Demand Billed	151,946	152,142	148,756	161,718	229,020	304,365	313,661	341,758	308,462	274,891	192,577	160,466	2,739,762	1,497,266	1,242,496
Total Commercial Firm	634,113	645,185	624,275	894,593	1,903,298	3,011,712	3,813,586	3,783,676	3,123,807	2,672,434	1,487,757	790,215	23,384,652	15,636,079	7,748,572
Total Firm	1,289,870	1,302,650	1,267,492	1,931,912	4,581,592	7,550,207	9,938,490	9,217,023	7,532,801	6,494,344	3,269,340	1,616,805	55,992,527	38,820,112	17,172,414
Small Interruptible	38,191	39,468	40,638	62,432	120,818	180,397	138,139	216,352	142,809	152,454	86,925	52,811	1,271,433	798,515	472,919
Medium Interruptible	226,991	193,849	228,322	212,877	387,974	459,073	455,900	459,578	458,724	443,753	308,331	247,964	4,083,336	2,221,249	1,862,087
Large Interruptible	158,384	132,842	192,341	125,384	180,879	220,199	254,118	261,764	215,492	205,132	199,835	127,155	2,273,525	1,132,452	1,141,073
<u>Med. & Lg. Interruptible - Generation</u>	<u>2,659</u>	<u>1,048</u>	<u>6,769</u>	<u>1,480</u>	<u>9,245</u>	<u>3,419</u>	<u>3,097</u>	<u>82</u>	<u>159</u>	<u>1,059</u>	<u>210</u>	<u>405</u>	<u>29,633</u>	<u>16,002</u>	<u>13,631</u>
Total Interruptible	426,224	367,207	468,070	402,173	698,915	863,089	851,254	937,776	817,184	802,398	595,300	428,335	7,657,927	4,168,218	3,489,709
Total Firm and Interruptible	1,716,095	1,669,858	1,735,562	2,334,086	5,280,507	8,413,295	10,789,745	10,154,799	8,349,985	7,296,742	3,864,640	2,045,141	63,650,454	42,988,331	20,662,123
Firm Transportation	87,096	103,076	99,022	104,941	114,189	214,317	213,499	271,982	223,362	(303,231)	740,503	181,865	2,050,622	1,037,349	1,013,273
Interruptible Transportation	224,766	212,224	210,037	39,322	472,372	163,476	162,405	190,759	156,743	156,197	137,395	118,377	2,244,072	1,145,755	1,098,317
Negotiated Transportation	523,348	574,328	586,727	593,899	752,204	721,943	768,859	702,931	678,676	693,310	566,426	598,090	7,760,741	3,624,613	4,136,128
<u>Interdepartmental Transport - Generation</u>	<u>4,149,457</u>	<u>4,298,431</u>	<u>2,078,124</u>	<u>1,355,757</u>	<u>2,498,449</u>	<u>2,850,199</u>	<u>3,232,233</u>	<u>3,000,634</u>	<u>4,183,566</u>	<u>2,228,573</u>	<u>2,040,312</u>	<u>2,512,508</u>	<u>34,428,243</u>	<u>15,765,081</u>	<u>18,663,162</u>
Total Transportation	4,984,667	5,188,059	2,973,910	2,093,919	3,837,214	3,949,935	4,376,996	4,166,306	5,242,347	2,774,849	3,484,636	3,410,840	46,483,678	21,572,798	24,910,880
Total Customer Sales	6,700,762	6,857,917	4,709,472	4,428,004	9,117,721	12,363,230	15,166,740	14,321,105	13,592,332	10,071,591	7,349,276	5,455,981	110,134,132	64,561,128	45,573,003
Monthly Heating Degree Days	0	0	28	448	793	948	1,337	930	853	470	106	3	5,916	4,861	1,055

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Northern States Power Company
FIRM SUPPLY ENTITLEMENTS
2024-2025 Heating Season

Docket No. G002/M-24-____
Contract Demand Entitlements-Petition
Attachment 1, Schedule 5
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	Current	Proposed	Proposed
	Quantity	Quantity	Quantity
	Effective	Effective	Change
	Nov-24	Nov-25	Nov-25
Firm Supplies (1)	Dth/Day	Dth/Day	Dth/Day

A. Upstream Supply

	[PROTECTED DATA BEGINS		
ANR Firm 3rd Party (2)			
ANRP Storage (2)			
ANR Storage Company (3)			
GLGT Firm 3rd Party (3)			
	PROTECTED DATA ENDS]		

B. Minnesota Company Delivered Supply

	[PROTECTED DATA BEGINS		
WBI Firm 3rd Party			
VGT Firm 3rd Party			
NNG Firm 3rd Party			
NNG FDD Storage			
LP Peak Shaving			
LNG Peak Shaving	90,000	90,000	-
	156,000	156,000	-
TOTAL	947,836	955,441	7,605
	PROTECTED DATA ENDS]		

C. Minnesota State Delivered Supply

State of MN Allocators	86.80%	86.42%	
TOTAL	822,688	825,735	3,047

- (1) Contracts are available for inspection upon request
- (2) ANR feeds VGT.
- (3) GLGT feeds NNG or VGT

ATTACHMENT 2

Northern States Power Company

Proposal for Entitlement Changes

**Information provided in response to the
Department letter dated October 1, 1993 and the
Commission Order dated October 16, 2015 in Docket No. G002/M-14-654**

PROPOSAL FOR ENTITLEMENT CHANGE
Department Format dated October 1, 1993

1 Provide a peak-day/design-day study by class for the twelve months ending one year from the proposed implementation date of the change(s):

See Attachment 1, Schedule 3.

2 Provide Heating Degree Day (HDD) data for the most recent twelve month period ending March 31 or September 30. This should include HDD, use per firm customer, and the peak season and off-peak HDD used for calculating the Company's design days:

See Attachment 1, Schedule 1, and Attachment 1, Schedule 4.

3 Historical and Projected Design-Day and Peak Demand Requirements:

Minnesota State

Heating Season ¹	Number of Firm Customers ²	Design Day Requirement (Dth)	Total Entitlement plus Storage plus Peak Shaving ³ (Dth)	Peak Day Sendout (Dth)	Heating Degree Days (6)	Actual Peak Day
(1)	(2)	(3)	(4)	(5)	(6)	
Proposed: 2024/2025	493,367	784,382	825,735	Unknown	Unknown	Unknown
2023/2024	487,929	778,606	822,688	619,013	60	1/13/2024
2022/2023	482,452	774,448	817,990	764,743	72	12/23/2022
2021/2022	477,316	764,644	816,693	684,885	64	2/12/2022
2020/2021	469,356	750,974	792,448	743,767	76	2/14/2021
2019/2020	465,382	743,696	792,833	738,210	69	2/13/2020
2018/2019	461,078	735,741	779,864	735,822	75	1/29/2019
2017/2018	457,769	730,147	776,298	745,131	69	12/26/2017
2016/2017	454,396	725,225	765,534	733,711	66	1/5/2017
2015/2016	450,630	717,478	762,152	719,329	74	1/17/2016
2014/2015	446,409	715,945	761,354	687,501	64	1/12/2015
2013/2014	441,573	706,935	749,325	689,990	82	1/6/2014
2012/2013	439,210	702,159	745,247	689,747	71	1/21/2013
2011/2012	439,055	702,294	745,094	659,263	65	1/19/2012
2010/2011	436,594	699,611	743,781	675,667	69	1/20/2011
2009/2010	433,698	694,487	748,267	590,931	67	12/10/2009
2008/2009	428,852	685,005	732,291	601,425	78	1/15/2009
2007/2008	431,503	683,717	721,506	585,874	72	1/29/2008
2006/2007	424,415	677,733	696,257	568,963	67	2/2/2007
2005/2006	421,570	670,846	691,689	537,660	63	12/5/2005
2004/2005	410,986	649,655	675,120	537,374	60	1/5/2005

1 Per Annual Financial Reports.

2 Provide data and calculations for projected number of firm customers by class and in total corresponding to the design day requirement.

See Attachment 1, Schedule 1.

3 Total entitlement for Minnesota is calculated from the Proposed November 1 Entitlement.

See Attachment 1, Schedule 5.

4 Demand Profile:

See Attachment 2, Schedule 1.

5 Rate Impact:

See Attachment 2, Schedule 2.

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Northern States Power Company
COMPANY DEMAND PROFILE
2024-2025 Heating Season

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Attachment 2, Schedule 1
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Contract No.	Type of Capacity or Entitlement	Current Amount Dth or MMBtu	Proposed Change Dth or MMBtu	Proposed Amount Dth or MMBtu	Contract Length and Expiration Date	Change Description	% of Peak Day Entitlement
Capacity Entitlements							
112183	NNG TF12 BASE (Max)	104,117	0	104,117	10 yrs - 10/31/27		11.04%
112183	NNG TF12 VARIABLE (Max)	0	0	0	10 yrs - 10/31/27		0.00%
112182	NNG TF12 BASE (Disc)	20,674	3,527	24,201	10 yrs - 10/31/27	Annual Re-Determination	2.57%
112182	NNG TF12 VARIABLE (Disc.)	73,853	(3,527)	70,326	10 yrs - 10/31/27	Annual Re-Determination	7.46%
112183	NNG TF5 (Max)	62,415	0	62,415	10 yrs - 10/31/27		6.62%
112182	NNG TF5 (Disc.)	29,599	0	29,599	10 yrs - 10/31/27		3.14%
111739	NNG TFX (Nov-Mar)	28,500	0	28,500	5 yrs - 3/31/27		3.02%
112185	NNG TFX (Disc. Nov-Mar)	58,184	0	58,184	10 yrs - 10/31/27		6.17%
112185	NNG TFX (Disc. 12-month)	36,654	0	36,654	10 yrs - 10/31/27		3.89%
112185	NNG TFX 5 (Disc)	6,493	0	6,493	10 yrs - 10/31/27		Summer Only
112185	NNG TFX 2 (Disc)	2,168	0	2,168	10 yrs - 10/31/27		Summer Only
112186	NNG TFX (Max)	30,539	(2,407)	28,132	10 yrs - 10/31/27	Capacity Expiration	2.98%
112186	NNG TFX 7 (Max)	25,114	(2,407)	22,707	10 yrs - 10/31/27	Capacity Expiration	Summer Only
112186	NNG TFX 5 (Disc Nov-Mar)	36,630	0	36,630	10 yrs - 10/31/27		3.89%
112186	NNG TFX 5 (Disc Apr - Jun, Sep-Oct)	20,303	0	20,303	10 yrs - 10/31/27		Summer Only
112186	NNG TFX 2 (Disc July-Aug)	1,000	0	1,000	10 yrs - 10/31/27		Summer Only
112184	NNG TFX (Disc.)	25,000	0	25,000	10 yrs - 10/31/27		2.65%
122067	NNG TFX (Disc. Nov-Mar)	22,775	905	23,680	10 yrs - 10/31/27	Capacity Acquisition	2.51%
122067	NNG TFX 7 (Disc)	22,775	905	23,680	10 yrs - 10/31/27	Capacity Acquisition	Summer Only
122068	NNG TFX (Nov-Mar)	9,969	350	10,319	10 yrs - 10/31/27	Capacity Acquisition	1.09%
122068	NNG TFX 7 (Max)	9,969	350	10,319	10 yrs - 10/31/27	Capacity Acquisition	Summer Only
[PROTECTED DATA BEGINS]							
	VGt to NNG Chisago (1)						
	VGt Pierz to NNG (2)						
	Capacity Release						
AF0044	VGt FT-A 12 Mos.	32,405	0	32,405	5 yrs - 10/31/26		3.44%
AF0044	VGt FT-A (Nov-Mar)	4,239	0	4,239	5 yrs - 10/31/26		0.45%
AF0103	VGt FT-A 12 Mos.	10,000	0	10,000	5 yrs - 10/31/29	Contract Extension	1.06%
AF0057	VGt FT-A 12 Mos.	15,600	0	15,600	5 yrs - 10/31/27		1.65%
AF0217	VGt FT-A 12 Mos.	72,213	15,000	87,213	5 yrs - 10/31/29	Contract Extension/Consolidation	9.25%
AF0218	VGt FT-A 12 Mos.	15,000	(15,000)	0	5 yrs - 10/31/24		0.00%
AF0329	VGt FT-A 12 Mos.	20,200	0	20,200	5 yrs - 10/31/28	Contract Extension	2.14%
AF0360	VGt FT-A 12 Mos.	22,000	0	22,000	5 yrs - 10/31/27		2.33%
AF0535	VGt FT-A 12 Mos.	2,500	0	2,500	5 yrs - 11/31/28		0.27%
TBD	VGt FT-A 12 Mos.	30,000	0	30,000	5 yrs - 11/31/28		3.18%
	WBI FT-1097	8,000	0	8,000	6.5 yrs - 10/31/25		0.85%
	WBI FT-157	461	0	461	20 yrs - 07/01/33		0.05%
	City Gate Deliveries	24,000	(4,000)	20,000	3 yrs - 10/31/25	Capacity Reduction	2.12%
	LP Peak Shaving	90,000	0	90,000			9.55%
	LNG Peak Shaving	156,000	0	156,000			16.55%
Total Design Day Capacity		947,836		942,684			100%
	Heating Season Total	947,836		942,684			
	Non-Heating Season Total	555,629		554,477			

PROTECTED DATA ENDS]

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED
Protected data is shaded.

Northern States Power Company
COMPANY DEMAND PROFILE
2024-2025 Heating Season

Docket No. G002/M-24-____
Contract Demand Entitlements-Petition
Attachment 2, Schedule 1
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Miscellaneous Entitlements with Reservation Fees

Additional Pipeline Entitlements

ANR FTS-106209 12 Mos. (1)	4,829	0	4,829	3 yrs - 03/31/27	Contract Extension
ANR FTS-106211 (Summer) (1)	5,450	(17)	5,433	3 yrs - 03/31/27	Annual Fuel Adjustment/Contract Extension
ANR FTS-106211 (Winter) (1)	15,171	0	15,171	3 yrs - 03/31/27	Contract Extension
ANR FTS-114492 12 Mos. (1)	66,500	0	66,500	5 yrs - 10/31/28	Contract Extension
ANR FTS-135957 12 Mos. (1)	22,000	0	22,000	10 yrs - 10/31/32	
GLT FT18539 (Winter) (2)	3,509	0	3,509	13 yrs - 03/31/37	Contract Extension
GLT FT18539 (Summer) (2)	5,370	0	5,370	13 yrs - 03/31/37	Contract Extension
GLT Backhaul FT18129 (Nov-Mar) (2)	9,248	0	9,248	13 yrs - 03/31/37	Contract Extension
NNG SMS (3)	30,650		30,650	5 yrs - 10/31/27	
VGT OBA (3)	7,400		7,400	month-to-month	

Supply Entitlements (4)

[PROTECTED DATA BEGINS



PROTECTED DATA ENDS]

Storage Entitlements - Deliverability

ANR Pipeline Storage	15,267	(41)	15,226	5 yrs - 3/31/29	Annual Fuel Adjustment/Contract Extension
ANR Storage	9,248	0	9,248	6 yrs - 3/31/30	Contract Extension
FDD Service (5)	140,230	0	140,230	5 yrs - 5/31/27	Partial Contract Extension
FDD Service	78,050	0	78,050	15 yrs - 5/31/27	

Storage Entitlements - Capacity

ANR Pipeline Storage	946,554	(2,542)	944,012	5 yrs - 3/31/29	Annual Fuel Adjustment
ANR Storage Co	1,165,000	0	1,165,000	6 yrs - 3/31/30	Contract Extension
FDD Service (5)	8,084,975	0	8,084,975	5 yrs - 5/31/27	Partial Contract Extension
FDD Service	4,500,000	0	4,500,000	15 yrs - 5/31/27	

- (1) Not included in total peak deliverability -- feeds VGT (capacity not additive).
(2) Not included in total peak deliverability -- feeds NNG (capacity not additive).
(3) Not included in total peak deliverability -- entitlement delivered by or associated with TF or FT-A service.
(4) Supply contracts containing reservation fees.
(5) Capacity expires 6,684,975 Dth in May 2027 & 1,400,000 Dth in May 2028

CHANGES TO CONTRACT ENTITLEMENTS AS OF NOVEMBER 1, 2025

	Current Amount <u>Dth</u>	Proposed Change <u>Dth</u>	Proposed Amount <u>Dth</u>
Total MN Company Available Capacity:			
Heating Season	947,836	(5,152)	942,684
Non-Heating Season	555,629	(1,152)	554,477
Heating Season Forecasted Design Day	897,048	10,543	907,591
Non-Heating Season Forecasted Design Day	N/A	N/A	N/A
Heating Season Capacity Reserve/(Shortage)	50,788	(15,695)	35,093
Non-Heating Season Capacity Reserve/(Shortage)	N/A	N/A	N/A
Heating Season Capacity Reserve/(Shortage) Margin %	5.7%	-1.8%	3.9%
Total MN State Available Capacity:			
State of MN Allocation Factor	86.80%	-0.37%	86.42%
State of MN Heating Season Capacity	822,688	(7,978)	814,710
State of MN Design Day Demand	778,606	5,775	784,381
State of MN Heating Season Capacity Reserve/(Shortage)	44,082	(13,754)	30,329
State of MN Heating Season Capacity Reserve/(Shortage) Margin %	5.7%	-1.8%	3.9%

(1) Entitlement changes for November are included in Available Capacity.

Please reference Attachment 1 Schedule 5 for the detail on supply entitlement changes.

Northern States Power Company
MINNESOTA STATE RATE IMPACT

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Contract Demand Entitlements-Petition
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Date to implement proposed changes: November 1, 2024
\$/Dth

	Last Rate Case (G002/GR-21- 678)	Pending Demand Change (G002/M-23- 361)	Last Month PGA: July 2024	Estimated Nov 2024 PGAs with Proposed Demand Entitlement Changes	Change From Last Rate Case	Change From Last Approved Demand Change	Percent Change (%) From Last Month PGA	Change (\$) From Last Month PGA
Residential								
Commodity Cost of Gas (WACOG)	\$6.4988	\$3.1535	\$2.1802	\$2.6268	-59.58%	-16.70%	20.48%	\$0.4466
Demand Cost of Gas (1)	\$1.0599	\$1.0857	\$1.1610	\$1.1561	9.08%	6.48%	-0.42%	(\$0.0049)
February Gas Event	\$0.4219	\$0.4219	\$0.4219	\$0.4219			0.00%	\$0.0000
Distribution Margin	\$2.7493	\$2.7493	\$2.7493	\$2.7493	0.00%	0.00%	0.00%	\$0.0000
Total per Dth Cost	\$10.7299	\$7.4104	\$6.5124	\$6.9541	-35.19%	-6.16%	6.78%	\$0.4417
Average Annual Usage (Dth)	88	88	88	88				
Average Annual Total Cost	\$942.75	\$651.09	\$572.19	\$611.00	-35.19%	-6.16%	6.78%	\$38.81
Average Annual Total Demand Cost of Gas	\$93.13	\$95.39	\$102.01	\$101.58				(\$0.43)
Small Commercial								
Commodity Cost of Gas (WACOG)	\$6.5967	\$3.1535	\$2.1802	\$2.6268	-60.18%	-16.70%	20.48%	\$0.4466
Demand Cost of Gas (1)	\$1.0685	\$1.0937	\$1.1704	\$1.1641	8.95%	6.44%	-0.54%	(\$0.0063)
February Gas Event	\$0.9389	\$0.9389	\$0.0000	\$0.0000			0.00%	\$0.0000
Distribution Margin	\$2.1974	\$2.1974	\$1.1673	\$1.1673	-46.88%	-46.88%	0.00%	\$0.0000
Total per Dth Cost	\$10.8015	\$7.3835	\$4.5179	\$4.9582	-54.10%	-32.85%	9.75%	\$0.4403
Average Annual Usage (Dth)	238	238	238	238				
Average Annual Total Cost	\$2,574.14	\$1,759.58	\$1,076.68	\$1,181.61	-54.10%	-32.85%	9.75%	\$104.93
Average Annual Total Demand Cost of Gas	\$254.64	\$260.64	\$278.92	\$277.42				(\$1.50)
Large Commercial								
Commodity Cost of Gas (WACOG)	\$6.5967	\$3.1535	\$2.1802	\$2.6268	-60.18%	-16.70%	20.48%	\$0.4466
Demand Cost of Gas (1)	\$1.0353	\$1.0629	\$1.1425	\$1.1333	9.47%	6.62%	-0.81%	(\$0.0092)
February Gas Event	\$0.0000	\$0.5891	\$0.0000	\$0.0000			0.00%	\$0.0000
Distribution Margin	\$1.8410	\$1.8410	\$1.1658	\$1.1658	-36.67%	-36.67%	0.00%	\$0.0000
Total per Dth Cost	\$9.4731	\$6.6465	\$4.4885	\$4.9259	-48.00%	-25.89%	9.74%	\$0.4374
Average Annual Usage (Dth)	1,613	1,613	1,613	1,613				
Average Annual Total Cost	\$15,279.26	\$10,720.27	\$7,239.61	\$7,945.10	-48.00%	-25.89%	9.74%	\$705.49
Average Annual Total Demand Cost of Gas	\$1,669.85	\$1,714.37	\$1,842.76	\$1,827.92				(\$14.84)

(1) Includes demand smoothing

	Last Rate Case (G002/GR-21- 678)	Pending Demand Change (G002/M-23- 361)	Last Month PGA: July 2024	Estimated Nov 2024 PGAs with Proposed Demand Entitlement Changes	Change From Last Rate Case	Change From Last Approved Demand Change	Percent Change (%) From Last Month PGA	Change (\$) From Last Month PGA
Small Interruptible								
Commodity Cost of Gas (WACOG)	\$6.5164	\$3.1535	\$2.1802	\$2.6268	-59.69%	-16.70%	20.48%	\$0.4466
Demand Cost of Gas (1)	\$0.0000	\$0.0000	\$0.0000	\$0.0000				\$0.0000
February Gas Event	\$0.0000	\$0.7414	\$0.0000	\$0.0000			0.00%	\$0.0000
Distribution Margin	\$1.4885	\$1.4885	\$0.9121	\$0.9121	-38.72%	-38.72%	0.00%	\$0.0000
Total per Dth Cost	\$8.0048	\$5.3834	\$3.0923	\$3.5389	-55.79%	-34.26%	14.44%	\$0.4466
Average Annual Usage (Dth)	8,513	8,513	8,513	8,513				
Average Annual Total Cost	\$68,147.76	\$45,830.38	\$26,326.14	\$30,128.20	-55.79%	-34.26%	14.44%	\$3,802.06
Average Annual Total Demand Cost of Gas	\$0.00	\$0.00	\$0.00	\$0.00				\$0.00
Medium Interruptible								
Commodity Cost of Gas (WACOG)	\$6.8156	\$3.1535	\$2.1802	\$2.6268	-61.46%	-16.70%	20.48%	\$0.4466
Demand Cost of Gas (1)	\$0.0000	\$0.0000	\$0.0000	\$0.0000				\$0.0000
February Gas Event	\$0.0000	\$0.4917	\$0.0000	\$0.0000			0.00%	\$0.0000
Distribution Margin	\$0.8478	\$0.8478	\$0.4498	\$0.4498	-46.94%	-46.94%	0.00%	\$0.0000
Total per Dth Cost	\$7.6634	\$4.4930	\$2.6300	\$3.0766	-59.85%	-31.52%	16.98%	\$0.4466
Average Annual Usage (Dth)	51,645	51,645	51,645	51,645				
Average Annual Total Cost	\$395,774.81	\$232,038.06	\$135,825.11	\$158,889.74	-59.85%	-31.52%	16.98%	\$23,064.62
Average Annual Total Demand Cost of Gas	\$0.00	\$0.00	\$0.00	\$0.00				\$0.00
Large Interruptible								
Commodity Cost of Gas (WACOG)	\$6.8379	\$3.1535	\$2.1802	\$2.6268	-61.58%	-16.70%	20.48%	\$0.4466
Demand Cost of Gas (1)	\$0.0000	\$0.0000	\$0.0000	\$0.0000				\$0.0000
February Gas Event	\$0.0000	\$0.4917	\$0.0000	\$0.0000			0.00%	\$0.0000
Distribution Margin	\$0.7977	\$0.7977	\$0.4114	\$0.4114	-48.42%	-48.42%	0.00%	\$0.0000
Total per Dth Cost	\$7.6355	\$4.4429	\$2.5916	\$3.0382	-60.21%	-31.62%	17.23%	\$0.4466
Average Annual Usage (Dth)	631,398	631,398	631,398	631,398				
Average Annual Total Cost	\$4,821,054.11	\$2,805,208.67	\$1,636,351.20	\$1,918,333.76	-60.21%	-31.62%	17.23%	\$281,982.55
Average Annual Total Demand Cost of Gas	\$0.00	\$0.00	\$0.00	\$0.00				\$0.00

(1) Includes demand smoothing

Summary - Change from most recent PGA

<u>Customer Class</u>	Commodity Change (\$/Dth)	Commodity Change (Percent)	Demand Change (\$/Dth)	Demand Change (Percent)	Demand Annual Change (\$/Dth)	Total Annual Change (\$/Dth)	Total Annual Change (Percent)
Residential	\$0.4466	20.48%	(\$0.0049)	-0.42%	(\$0.43)	\$38.81	6.78%
Small Commercial	\$0.4466	20.48%	(\$0.0063)	-0.54%	(\$1.50)	\$104.93	9.75%
Large Commercial	\$0.4466	20.48%	(\$0.0092)	-0.81%	(\$14.84)	\$705.49	9.74%
Small Interruptible	\$0.4466	20.48%	\$0.0000	NA	\$0.00	\$3,802.06	14.44%
Medium Interruptible	\$0.4466	20.48%	\$0.0000	NA	\$0.00	\$23,064.62	16.98%
Large Interruptible	\$0.4466	20.48%	\$0.0000	NA	\$0.00	\$281,982.55	17.23%

DERIVATION OF CURRENT PGA COSTS

Contract Demand Entitlements-Petition

Nov. 2024 - Projected Costs (Actual prices will be determined Nov. 1, 2024)*

Attachment 2, Schedule 2

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<u>Demand Cost (Res, Sm & Lg Commercial Firm)</u>		<u>Annual Cost</u>	<u>Winter Cost</u>	<u>Total</u>
1.	MN & ND Total Demand	\$50,970,509	\$35,820,719	
2.	<u>x Minnesota Design Day Ratio (2024 Demand Entitlement Filing)</u>	<u>86.42%</u>	<u>86.42%</u>	
3.	Annual System Demand Allocation to MN	\$44,051,002	\$30,957,873	
4.	<u>MN State Design Day (2024 Demand Entitlement Filing)</u>	784,382	784,382	
5.	<u>- Small & Large Demand Billed Dth (2023 Demand Entitlement Filing)</u>	<u>28,854</u>	<u>28,854</u>	
6.	Non-Demand Billed Design Day Dkt (4 - 5)	755,528	755,528	
7.	Non-Demand Billed Allocation (3 x 6 / 4)	\$42,430,557	\$29,819,068	
8.	Demand Billed Cost Allocation (3 - 7)	\$1,620,445	\$1,138,805	
9.	MN Annual / Seasonal Firm Therm Sales (Forecast)	628,058,653	466,782,718	
10.	Demand Unit Cost \$/Therm (7 / 9)	\$0.06756	\$0.06388	\$0.13144
11.	Demand Cost True-up - Residential, Oct-May			\$0.00000
12.	Demand Cost True-up - Commercial, Oct-May			\$0.00000
13.	Total Demand Rate - Residential (10 +11)			\$0.13144
14.	Total Demand Rate -Commercial (10 + 12)			\$0.13144
<u>Demand Cost (Demand Billed)</u>				
15.	Cost Allocated to Demand Billed (8)	\$1,620,445	\$1,138,805	\$2,759,250
16.	<u>/ Annual Contract Billing Demand (2024 Demand Entitlement Filing)</u>			<u>3,462,480</u>
17.	Monthly Commercial Demand Billed Demand Rate			\$0.79690
<u>Commodity Costs</u>				<u>Monthly Cost</u>
18.	NNG Annual/Best Effort/Viking/WBI/Xcel Energy Pk Shv			\$24,302,076
19.	<u>x MN Portion of Monthly Retail Sales</u>			<u>85.46%</u>
20.	MN Portion of Monthly Commodity Costs			\$20,768,554
21.	MN Budgeted Calendar Month Retail Therm Sales			79,063,218
22.	Commodity Unit Cost \$/Therm (20 / 21)			\$0.26268
<u>Total Gas Cost per Therm</u>				
23.	Residential (13 + 22)			\$0.39412
24.	Small & Large Commercial (14 +22)			\$0.39412
25.	Small & Large Demand Billed - Demand (17)			\$0.79690
26.	Small & Large Demand Billed - Commodity; All Interruptible (22)			\$0.26268

*Commodity costs are projected and for illustrative purposed only.

ATTACHMENT 3

Northern States Power Company

**Information provided in response to reporting requirements in
Docket No. G002/M-08-46 (Order dated May 27, 2008)
Regarding use of financial instruments to limit price volatility and
Docket Nos. G002/M-16-88 (Order dated April 22, 2016),
G002/M-19-703 (Order dated February 12, 2020), and
G002/M-23-521 (Order dated May 21, 2024)
Regarding benefits of the contracts.**

Order Point 2 of the Commission's April 22, 2016 Order in Docket No. G002/M-16-88,

Order Point 6b of the Commission's February 12, 2020 Order in Docket No. G002/M-19-703, and

Order Point 5b of the Commission's May 21, 2024 Order in Docket No. G002/M-23-521 require the following:

Include, in its requests for approval of changes in demand entitlements submitted on approximately August 1 of each year, a list of all financial instrument arrangements entered into for the upcoming heating season, including the cost premium associated with each contract, the size of each contract, contract date, contract price, and an explanation of the anticipated benefits of these contract to Xcel's ratepayers.

The overall anticipated benefit of the Company's Price Volatility Mitigation Plan, is to reduce our customers' exposure to, and the magnitude of First of Month (FOM) gas price spike events at a reasonable cost. The goal of the plan is not to attempt to outguess the market or to speculate on the future direction of energy prices. In the development and implementation to the Plan, the Company realizes that the final result of our efforts may be higher prices than purchasing all gas supply on the monthly spot market. However, the Company maintains that price volatility mitigation is important in order to protect the Company and our customers from the risk of very high gas prices due to unforeseeable market conditions and/or events.

Protected data is shaded.

Transaction Date	Hedge Instrument	Counterparty	Premium (\$/Dth)	Call Strike Price	Put Strike Price	Daily Vol (Dth)	Basis Point	Monthly Volumes (Dth)					Total Volume (Dth)	Total Dollars
								November	December	January	February	March		
[PROTECTED DATA BEGINS]														
[REDACTED DATA]														
														[PROTECTED DATA ENDS]

CERTIFICATE OF SERVICE

I, Joshua DePauw, 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 NOS. G002/GR-23-413
G002/GR-21-678
Xcel Energy Misc. Gas Service List

Dated this 1st day of August 2024

/s/

Joshua DePauw
Regulatory Administrator

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Kristine	Anderson	kanderson@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Lane PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Katherine	Arnold	katherine.arnold@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Mara	Ascherman	mara.k.ascherman@xcenergy.com	Xcel Energy	414 Nicollet Mall Fl 5 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Gail	Baranko	gail.baranko@xcenergy.com	Xcel Energy	414 Nicollet Mall 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Allen	Barr	allen.barr@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St Ste 1400 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Elizabeth	Brama	ebrama@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Olivia	Carroll	oliviacc@minnesotacub.org	Citizens Utility Board of Minnesota	332 Minnesota St W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Joey	Cherney	joey.cherney@ag.state.mn.us	Office of the Attorney General-RUD	445 Minnesota Street STE 1800 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd. St. Louis, MO 63119-2044	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_23-413_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Brandon	Crawford	brandonc@cubminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota St Ste W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
George	Crocker	gwillc@nawo.org	North American Water Office	5093 Keats Avenue Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Richard	Dornfeld	Richard.Dornfeld@ag.state.mn.us	Office of the Attorney General-DOC	Minnesota Attorney General's Office 445 Minnesota Street, Suite 1800 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Brian	Edstrom	briane@cubminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota St Ste W1360 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Rebecca	Eilers	rebecca.d.eilers@xcelenergy.com	Xcel Energy	414 Nicollet Mall - 401 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St Saint Paul, MN 55102-2617	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Todd J.	Guerrero	todd.guerrero@kutakrock.com	Kutak Rock LLP	Suite 1750 220 South Sixth Street Minneapolis, MN 554021425	Electronic Service	No	OFF_SL_23-413_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Matthew B	Harris	matt.b.harris@xcelenergy.com	XCEL ENERGY	401 Nicollet Mall FL 8 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Annete	Henkel	mui@mutilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St.Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Valerie	Herring	vherring@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S. Eighth Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Katherine	Hinderlie	katherine.hinderlie@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St Suite 1400 St. Paul, MN 55101-2134	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Michael	Hoppe	lu23@ibew23.org	Local Union 23, I.B.E.W.	445 Etna Street Ste. 61 St. Paul, MN 55106	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Nicolle	Kupser	nkupser@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Ln PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Annie	Levenson Falk	annief@cupminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota Street, Suite W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Eric	Lipman	eric.lipman@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Peter E.	Madsen	pmadsen@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Mary	Martinka	mary.a.martinka@xcelenergy.com	Xcel Energy Inc	414 Nicollet Mall 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Stephen	Melchionne	stephen.melchionne@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street, Ste. 1400 St. Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Greg	Merz	greg.merz@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Kimberly	Middendorf	kimberly.middendorf@state.mn.us	Office of Administrative Hearings	PO Box 64620 600 Robert St N Saint Paul, MN 55164-0620	Electronic Service	No	OFF_SL_23-413_Official CC Service List
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Travis	Murray	travis.murray@ag.state.mn.us	Office of the Attorney General-RUD	445 Minnesota St Ste 1400 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_23-413_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Samantha	Norris	samanthanorris@alliantenergy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Greg	Palmer	gpalmer@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Ln PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Kevin	Pranis	kpranis@liunagroc.com	Laborers' District Council of MN and ND	81 E Little Canada Road St. Paul, MN 55117	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_23-413_Official CC Service List
Joseph L	Sathe	jsathe@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Elizabeth	Schmiesing	eschmiesing@winthrop.com	Winthrop & Weinstine, P.A.	225 South Sixth Street Suite 3500 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Peter	Scholtz	peter.scholtz@ag.state.mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota Street St. Paul, MN 55101-2131	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Christine	Schwartz	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_23-413_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	Yes	OFF_SL_23-413_Official CC Service List
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Suzanne	Todnem	suzanne.todnem@state.mn.us	Office of Administrative Hearings	600 Robert St N PO Box 64620 St. Paul, MN 55164	Electronic Service	Yes	OFF_SL_23-413_Official CC Service List
Amelia	Vohs	avohs@mncenter.org	Minnesota Center for Environmental Advocacy	1919 University Avenue West Suite 515 St. Paul, MN 55104	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Joshua	Weir	jweir@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List
Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine	225 South Sixth Street, Suite 3500 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_23-413_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Kristine	Anderson	kanderson@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Lane PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_21-678_21-678
Mara	Ascheman	mara.k.ascheman@xcelenergy.com	Xcel Energy	414 Nicollet Mall Fl 5 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_21-678_21-678
Gail	Baranko	gail.baranko@xcelenergy.com	Xcel Energy	414 Nicollet Mall 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_21-678_21-678
Allen	Barr	allen.barr@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St Ste 1400 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_21-678_21-678
Elizabeth	Brama	ebrama@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Robert S.	Carney, Jr.			4232 Colfax Ave. S. Minneapolis, MN 55409	Paper Service	No	OFF_SL_21-678_21-678
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd. St. Louis, MO 63119-2044	Electronic Service	No	OFF_SL_21-678_21-678
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_21-678_21-678
George	Crocker	gwillc@nawo.org	North American Water Office	5093 Keats Avenue Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_21-678_21-678
Richard	Dornfeld	Richard.Dornfeld@ag.state.mn.us	Office of the Attorney General-DOC	Minnesota Attorney General's Office 445 Minnesota Street, Suite 1800 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_21-678_21-678

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Rebecca	Eilers	rebecca.d.eilers@xcelenergy.com	Xcel Energy	414 Nicollet Mall - 401 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_21-678_21-678
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_21-678_21-678
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_21-678_21-678
Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St Saint Paul, MN 55102-2617	Electronic Service	No	OFF_SL_21-678_21-678
Todd J.	Guerrero	todd.guerrero@kutakrock.com	Kutak Rock LLP	Suite 1750 220 South Sixth Street Minneapolis, MN 554021425	Electronic Service	No	OFF_SL_21-678_21-678
Matthew B	Harris	matt.b.harris@xcelenergy.com	XCEL ENERGY	401 Nicollet Mall FL 8 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_21-678_21-678
Annete	Henkel	mui@mutilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-678_21-678
Valerie	Herring	vherring@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S. Eighth Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Katherine	Hinderlie	katherine.hinderlie@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St Suite 1400 St. Paul, MN 55101-2134	Electronic Service	No	OFF_SL_21-678_21-678
Michael	Hoppe	lu23@ibew23.org	Local Union 23, I.B.E.W.	445 Etna Street Ste. 61 St. Paul, MN 55106	Electronic Service	No	OFF_SL_21-678_21-678

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Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Nicolle	Kupser	nkupser@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Ln PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_21-678_21-678
Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	OFF_SL_21-678_21-678
Eric	Lipman	eric.lipman@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	Yes	OFF_SL_21-678_21-678
Peter E.	Madsen	pmadsen@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Mary	Martinka	mary.a.martinka@xcelenergy.com	Xcel Energy Inc	414 Nicollet Mall 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_21-678_21-678
Greg	Merz	greg.merz@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-678_21-678
Joseph	Meyer	joseph.meyer@ag.state.mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	OFF_SL_21-678_21-678
Kimberly	Middendorf	kimberly.middendorf@state.mn.us	Office of Administrative Hearings	PO Box 64620 600 Robert St N Saint Paul, MN 55164-0620	Electronic Service	No	OFF_SL_21-678_21-678

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David	Moeller	dmoeller@allte.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_21-678_21-678
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Travis	Murray	travis.murray@ag.state.mn.us	Office of the Attorney General-RUD	445 Minnesota St Ste 1400 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_21-678_21-678
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Samantha	Norris	samanthanorris@alliantenergy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_21-678_21-678
Greg	Palmer	gpalmer@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Ln PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_21-678_21-678
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_21-678_21-678
Joseph L	Sathe	jsathe@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Elizabeth	Schmiesing	eschmiesing@winthrop.com	Winthrop & Weinstine, P.A.	225 South Sixth Street Suite 3500 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Christine	Schwartz	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_21-678_21-678
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_21-678_21-678
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	No	OFF_SL_21-678_21-678
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_21-678_21-678
Amelia	Vohs	avohs@mncenter.org	Minnesota Center for Environmental Advocacy	1919 University Avenue West Suite 515 St. Paul, MN 55104	Electronic Service	No	OFF_SL_21-678_21-678
Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine	225 South Sixth Street, Suite 3500 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-678_21-678

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Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Christine	Schwartz	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Gas_Xcel Misc Gas