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Minneapolis, MN 55401

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October 29, 2020

—Via Electronic Filing—

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

RE: SUPPLEMENTAL FILING
CHANGES IN CONTRACT DEMAND ENTITLEMENTS
DOCKET NO. G002/M-20-633

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits this filing to supplement our July 31, 2020 Petition (Petition) in the above-referenced docket.

We include three adjustments with this Supplemental Filing, a change in Design Day, an increase in transportation entitlements, and a cost change from those identified in the Petition. These adjustments increase costs in Minnesota by approximately \$69,000, or 0.1% from our Petition request. Our total annual system cost, effective November 1, 2020, is \$66,665,442, or \$58,178,932 for our Minnesota customers.

As a result, we include the following revised attachments:

- Attachment 1, Schedule 1, Pages 1-5
- Attachment 1, Schedule 2, Pages 1-2
- Attachment 1, Schedule 3, Page 1
- Attachment 1, Schedule 5, Page 1
- Attachment 2, Page 2
- Attachment 2, Schedule 1, Pages 1-3
- Attachment 2, Schedule 2, Pages 1-4
- Attachment 3, Schedule 1, Page 2

Change to Design Day

In this supplement, we refreshed the level of design day requirements to serve customers in our demand billed rate class. The update increases the projected number of demand customers from 130 in our Petition to 136, and the required demand quantity from 25,775 Dth to 27,566 Dth. The increase of 1,792 Dth raises the overall design day by the same amount, and results in an overall reserve margin of 5.5 percent. The change also adjusts the Jurisdiction Allocation Factor for Minnesota from the previously filed 87.12 percent to 87.27 percent. The change is presented in the revised **Attachment 1, Schedule 5, Page 5**.

Changes to Entitlement and Resource Cost Levels

There are two updates that impact the total system costs provided in our Petition. These changes are summarized below and presented in the revised **Attachment 1, Schedule 2, Pages 1 and 2**, and **Attachment 2, Schedule 1, Page 1**. The change reflects an increase in transportation entitlements and a cost change from those identified in the Petition.

In the Petition, the Company inadvertently listed the wrong rate for one previously acquired delivered supply agreement to meet design day requirements. We have corrected this rate in **Attachment 1, Schedule 2, Pages 1-2**. The change to properly reflect the rate increases the overall costs by \$27,000.

Finally, the Petition noted a need to acquire an additional 8,671 Dth/day of delivered supply service on Viking, for December through February to meet seasonal peaking needs. Market conditions on Viking have been driven by favorable spot price differences between Emerson, Manitoba, Canada and the Chicago market resulting in Viking capacity being sold out for full-path transportation. Since filing the Petition, we have acquired two delivered supply agreements totaling for 8,700 Dth/day in lieu of the seasonal Viking Capacity. This is 29 Dth/day more than reflected in the Petition, as shown on **Attachment 2, Schedule 1, Pages 1 and 2** due to contracting in round numbers. The increase in capacity is also reflected in **Attachment 1, Schedule 3, Page 1, Attachment 1, Schedule 5**, and **Attachment 2, Schedule 1, Page 3**.

Delivered supply provides a service comparable to holding firm pipeline capacity by obtaining a firm commitment for gas at the Town Border Station (TBS). In this arrangement the gas supplier holds firm transportation capacity on Viking, and commits to deliver gas to NSP at our TBS thereby performing the transportation themselves. In return for this commitment, we agree to pay the supplier a demand charge. Our payment of the demand charge typically offsets some of the demand charge the supplier owes to Viking. As a result a delivered supply contract, then, functions similarly to a pipeline transportation contract. This allows us the

assurance of firm gas supply needed to meet our design requirements, while also being cost effective. The agreements reduce total system costs by \$16,317 from the amount estimated in the Petition of the Viking maximum tariff rate as reflected in **Attachment 1, Schedule 2, Page 1 and 2**. Together, the delivered supply changes result in an overall increase of demand costs of \$10,684.

We note that our delivered supply agreements are split into two categories, a demand charge reserving the counterparties transportation capacity for our use; and a commodity charge for the physical gas. The demand component of the contract is reflected in the demand cost of the PGA and under supplier entitlement changes on **Attachment 1, Schedule 2, Page 2**.

Attachment 2, Schedule 2, Pages 1 through 3 show the rate impacts revised to include the changes noted in the above paragraphs. **Attachment 2, Schedule 2, Page 4** shows the revised derivation of current PGA costs.

Update on Northern Natural Gas Rate Case Settlement

Our initial Petition noted Federal Energy Regulatory Commission Section 4 rate case filings by Northern Natural Gas (Northern Natural) and subsequent Settlement, which was filed on June 19, 2020 and was awaiting approval. On September 29, 2020, the FERC approved the Settlement, making the rates included final. No change to the Northern rates included in our original petition are necessary.

Update on Hedging Transactions

Updated hedging transactions are presented on the revised **Attachment 3, Schedule 1**. We completed hedging for the 2020-2021 heating season by executing a total of six call options. **Attachment 3, Schedule 1** now reflects all of the current hedging transactions. Total hedging costs for the 2020-2021 heating season are \$5,252,535

Miscellaneous

Portions of this 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 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.

We have electronically filed this document with the Commission, and copies have been served on the parties on the attached service list.

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
MANAGER, REGULATORY ANALYSIS

Enclosures
c: Service List

Northern States Power Company

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method

2020-2021 Heating Season

Revised from 7/31/20 filing

| Service Region (1) | Projected Jan 2021 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 | 331,905 | 68 | 12,306 | 0.0339408 | 91 | 1.1671632 | 0.0123 | 511,840 | 524,147 | |
| BRAINERD | 18,893 | 3 | 365 | 0.0246554 | 91 | 0.9708560 | 0.0123 | 23,952 | 24,317 | |
| MAINLINE | 15,602 | 13 | 3,527 | 0.0367773 | 88 | 1.2017975 | 0.0123 | 23,736 | 27,264 | |
| MAINLINE-WELCOME | 2,563 | 0 | 0 | 0.0180387 | 88 | 0.7560670 | 0.0123 | 2,873 | 2,873 | |
| WILLMAR | 12,224 | 3 | 598 | 0.0251264 | 88 | 0.9622644 | 0.0123 | 15,405 | 16,003 | |
| PAYNESVILLE | 35,748 | 25 | 4,606 | 0.0471616 | 94 | 1.0398440 | 0.0123 | 72,210 | 76,816 | |
| VGT-CHISAGO | 2,251 | 0 | 0 | 0.0143776 | 91 | 0.7216475 | 0.0123 | 2,439 | 2,439 | |
| WATKINS | 8,422 | 1 | 409 | 0.0188286 | 94 | 1.0245670 | 0.0123 | 10,314 | 10,723 | |
| TOMAH | 16,121 | 9 | 1,696 | 0.0352610 | 88 | 0.5619028 | 0.0123 | 23,961 | 25,658 | |
| RED WING | 8,072 | 5 | 1,167 | 0.0360311 | 88 | 1.1230661 | 0.0123 | 12,546 | 13,713 | |
| GRAND FORKS MN | 3,159 | 2 | 172 | 0.0391368 | 98 | 0.1350914 | 0.0123 | 4,749 | 4,921 | |
| FARGO MN | 14,260 | 7 | 2,719 | 0.0338525 | 98 | 0.3825008 | 0.0123 | 19,381 | 22,099 | |
| MN State | 469,220 | 136 | 27,566 | | | | | 723,408 | 750,974 | 87.27% |
| GRAND FORKS ND | 17,224 | 0 | 0 | 0.0170051 | 98 | 1.6559091 | 0.0123 | 31,299 | 31,299 | |
| FARGO ND | 41,364 | 0 | 0 | 0.0170552 | 98 | 1.7494427 | 0.0123 | 75,514 | 75,514 | |
| WBI ND | 1,427 | 0 | 0 | 0.0181951 | 98 | 1.4103522 | 0.0123 | 2,756 | 2,756 | |
| ND State | 60,014 | 0 | 0 | | | | | 109,568 | 109,568 | 12.73% |
| TOTAL | 529,234 | 136 | 27,566 | | | | | 832,976 | 860,542 | 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 2015 to December 2019.

(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.

Northern States Power Company

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method

2020-2021 Heating Season

Revised from 7/31/20 filing

| Division/Region (1) | Projected Firm Jan 2021 Cust (2) | Load Variation (Dth/Deg) (3) X Variable 1 | DD/ Design Day (4) | Monthly Base Use (Dth) Intercept (5) | R-Square | T-Stat | P-Value | Lost & Unacc. Factor (6) | Design Day (Dth) 2021 | | | | 2020 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 | 308,997 | 0.0107028 | 91 | 1.1485474 | 0.9858 | 64.0655 | 0.0000 | 0.0123 | 3,834 | 300,948 | 11,674 | 316,456 | 313,234 | 3,222 | 13,642 | 330,099 |
| Total Small Commercial | 15,425 | 0.0309258 | 91 | 1.6245713 | 0.9065 | 27.0011 | 0.0000 | 0.0123 | 542 | 43,410 | 824 | 44,777 | 43,834 | 942 | 1,930 | 46,707 |
| Total Large Commercial | 7,483 | 0.1780530 | 91 | 26.9666889 | 0.9804 | 54.3645 | 0.0000 | 0.0123 | 1,568 | 121,248 | 6,638 | 129,454 | 126,253 | 3,201 | 5,581 | 135,035 |
| Industrial | 68 | Contract Demand | - | - | - | - | - | - | - | - | - | 12,306 | 11,499 | 807 | - | 12,306 |
| | | | | | | | | | 5,945 | 465,606 | 19,137 | 502,993 | 494,820 | 8,173 | 21,153 | 524,147 |
| | | | | | | | | | 1.7% | | | | | | | |
| BRAINERD | | | | | | | | | | | | | | | | |
| Total Residential | 17,414 | 0.0101898 | 91 | 0.8615056 | 0.9807 | 54.7411 | 0.0000 | 0.0123 | 204 | 16,147 | 493 | 16,845 | 16,682 | 163 | 726 | 17,571 |
| Total Small Commercial | 1,217 | 0.0210158 | 91 | 2.4882772 | 0.8430 | 21.9219 | 0.0000 | 0.0123 | 30 | 2,328 | 100 | 2,457 | 2,309 | 148 | 106 | 2,563 |
| Total Large Commercial | 263 | 0.1322364 | 91 | 52.6070608 | 0.9541 | 35.0494 | 0.0000 | 0.0123 | 44 | 3,162 | 455 | 3,661 | 3,458 | 203 | 158 | 3,819 |
| Industrial | 3 | Contract Demand | - | - | - | - | - | - | - | - | - | 365 | 361 | 4 | - | 365 |
| | | | | | | | | | 278 | 21,637 | 1,048 | 23,327 | 22,810 | 518 | 990 | 24,317 |
| | | | | | | | | | 2.3% | | | | | | | |
| MAINLINE | | | | | | | | | | | | | | | | |
| Total Residential | 14,055 | 0.0102830 | 88 | 1.1691973 | 0.9763 | 49.3457 | 0.0000 | 0.0123 | 163 | 12,719 | 541 | 13,422 | 13,453 | (31) | 579 | 14,000 |
| Total Small Commercial | 1,148 | 0.0267712 | 88 | 1.6497454 | 0.8154 | 20.5742 | 0.0000 | 0.0123 | 34 | 2,705 | 62 | 2,801 | 2,724 | 78 | 121 | 2,922 |
| Total Large Commercial | 399 | 0.1689127 | 88 | 39.9668238 | 0.9246 | 21.1419 | 0.0000 | 0.0123 | 79 | 5,929 | 524 | 6,532 | 6,654 | (122) | 282 | 6,814 |
| Industrial | 13 | Contract Demand | - | - | - | - | - | - | - | - | - | 3,527 | 3,275 | 252 | - | 3,527 |
| | | | | | | | | | 276 | 21,352 | 1,127 | 26,283 | 26,106 | 177 | 981 | 27,264 |
| | | | | | | | | | 0.7% | | | | | | | |
| MAINLINE-WELCOME | | | | | | | | | | | | | | | | |
| Total Residential | 2,406 | 0.0100968 | 88 | 0.6805583 | 0.9759 | 48.8554 | 0.0000 | 0.0123 | 27 | 2,138 | 54 | 2,218 | 2,208 | 10 | 96 | 2,314 |
| Total Small Commercial | 138 | 0.0159525 | 88 | 1.1333409 | 0.9053 | 23.7727 | 0.0000 | 0.0123 | 2 | 194 | 5 | 201 | 203 | (2) | 9 | 210 |
| Total Large Commercial | 20 | 0.1451892 | 88 | 124.8700946 | 0.2186 | 4.1839 | 0.0001 | 0.0123 | 4 | 250 | 81 | 335 | 341 | (6) | 14 | 349 |
| Industrial | - | Contract Demand | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - |
| | | | | | | | | | 33 | 2,582 | 140 | 2,755 | 2,752 | 2 | 119 | 2,873 |
| | | | | | | | | | 0.1% | | | | | | | |
| WILLMAR | | | | | | | | | | | | | | | | |
| Total Residential | 11,328 | 0.0101076 | 88 | 0.9200266 | 0.8880 | 21.6510 | 0.0000 | 0.0123 | 128 | 10,076 | 343 | 10,547 | 9,459 | 1,088 | 455 | 11,001 |
| Total Small Commercial | 721 | 0.0246795 | 88 | 1.5871075 | 0.8741 | 20.2683 | 0.0000 | 0.0123 | 20 | 1,565 | 38 | 1,623 | 1,630 | (7) | 70 | 1,693 |
| Total Large Commercial | 175 | 0.1578286 | 88 | 24.3998769 | 0.9042 | 23.6164 | 0.0000 | 0.0123 | 31 | 2,427 | 140 | 2,599 | 2,409 | 190 | 112 | 2,711 |
| Industrial | 3 | Contract Demand | - | - | - | - | - | - | - | - | - | 598 | 527 | 71 | - | 598 |
| | | | | | | | | | 179 | 14,069 | 521 | 15,366 | 14,024 | 1,342 | 637 | 16,003 |
| | | | | | | | | | 9.6% | | | | | | | |
| PAYNESVILLE | | | | | | | | | | | | | | | | |
| Total Residential | 31,714 | 0.0103799 | 94 | 1.0633942 | 0.8176 | 15.3969 | 0.0000 | 0.0123 | 393 | 30,944 | 1,109 | 32,446 | 32,899 | (453) | 1,399 | 33,845 |
| Total Small Commercial | 2,850 | 0.0612729 | 94 | 0.7926245 | 0.3203 | 6.6312 | 0.0000 | 0.0123 | 202 | 16,417 | 74 | 16,694 | 15,690 | 1,004 | 720 | 17,413 |
| Total Large Commercial | 1,183 | 0.1676071 | 94 | 30.9236761 | 0.6694 | 10.0382 | 0.0000 | 0.0123 | 243 | 18,640 | 1,203 | 20,086 | 19,964 | 122 | 866 | 20,952 |
| Industrial | 25 | Contract Demand | - | - | - | - | - | - | - | - | - | 4,606 | 4,173 | 433 | - | 4,606 |
| | | | | | | | | | 839 | 66,000 | 2,387 | 73,832 | 72,726 | 1,106 | 2,984 | 76,816 |
| | | | | | | | | | 1.5% | | | | | | | |
| VGT-CHISAGO | | | | | | | | | | | | | | | | |
| Total Residential | 2,143 | 0.0100379 | 91 | 0.7067655 | 0.9650 | 40.3514 | 0.0000 | 0.0123 | 25 | 1,958 | 50 | 2,032 | 2,027 | 5 | 88 | 2,120 |
| Total Small Commercial | 99 | 0.0204769 | 91 | 0.9955182 | 0.9417 | 30.8777 | 0.0000 | 0.0123 | 2 | 185 | 3 | 190 | 196 | (6) | 8 | 198 |
| Total Large Commercial | 9 | 0.1439391 | 91 | 2.3427800 | 0.9282 | 21.6273 | 0.0000 | 0.0123 | 1 | 114 | 1 | 116 | 102 | 14 | 5 | 121 |
| Industrial | - | Contract Demand | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - |
| | | | | | | | | | 28 | 2,256 | 54 | 2,338 | 2,325 | 13 | 101 | 2,439 |
| | | | | | | | | | 0.6% | | | | | | | |

Northern States Power Company

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method

2020-2021 Heating Season

Revised from 7/31/20 filing

WATKINS

| | | | | | | | | | | | | | | | | |
|------------------------|-------|-----------------|----|-------------|--------|---------|--------|--------|-----|-------|-----|--------|--------|------|-----|--------|
| Total Residential | 8,123 | 0.0098395 | 94 | 0.9878605 | 0.9483 | 32.9151 | 0.0000 | 0.0123 | 95 | 7,513 | 264 | 7,873 | 7,793 | 79 | 339 | 8,212 |
| Total Small Commercial | 227 | 0.0288946 | 94 | 2.1904303 | 0.8149 | 16.1475 | 0.0000 | 0.0123 | 8 | 617 | 16 | 641 | 681 | (40) | 28 | 669 |
| Total Large Commercial | 72 | 0.1881740 | 94 | 36.1952936 | 0.9197 | 25.6165 | 0.0000 | 0.0123 | 17 | 1,272 | 86 | 1,374 | 1,402 | (27) | 59 | 1,434 |
| Industrial | 1 | Contract Demand | - | - | - | - | - | - | - | - | - | 409 | 409 | 0 | - | 409 |
| <hr/> | | | | | | | | | | | | | | | | |
| | 8,423 | 0.0188286 | | 1.024566953 | | | | | 120 | 9,402 | 366 | 10,297 | 10,285 | 12 | 426 | 10,723 |
| | | | | | | | | | | | | | | 0.1% | | |

TOMAH

| | | | | | | | | | | | | | | | | |
|------------------------|--------|-----------------|----|-------------|--------|---------|--------|--------|-----|--------|-----|--------|--------|------|-----|--------|
| Total Residential | 14,448 | 0.0101033 | 88 | 0.4054627 | 0.9794 | 52.9617 | 0.0000 | 0.0123 | 160 | 12,846 | 193 | 13,199 | 13,219 | (20) | 569 | 13,768 |
| Total Small Commercial | 1,283 | 0.0257114 | 88 | 2.1786221 | 0.9505 | 33.6733 | 0.0000 | 0.0123 | 37 | 2,902 | 92 | 3,030 | 3,046 | (16) | 131 | 3,161 |
| Total Large Commercial | 390 | 0.1863384 | 88 | 21.2065684 | 0.9669 | 41.5512 | 0.0000 | 0.0123 | 82 | 6,389 | 272 | 6,742 | 6,697 | 45 | 291 | 7,033 |
| Industrial | 9 | Contract Demand | - | - | - | - | - | - | - | - | - | 1,696 | 1,686 | 10 | - | 1,696 |
| <hr/> | | | | | | | | | | | | | | | | |
| | 16,130 | 0.0352610 | | 0.561902807 | | | | | 278 | 22,136 | 556 | 24,668 | 24,648 | 20 | 990 | 25,658 |
| | | | | | | | | | | | | | | 0.1% | | |

RED WING

| | | | | | | | | | | | | | | | | |
|------------------------|-------|-----------------|----|-------------|--------|---------|--------|--------|-----|--------|-----|--------|--------|-------|-----|--------|
| Total Residential | 7,285 | 0.0102082 | 88 | 0.9076567 | 0.9175 | 25.6356 | 0.0000 | 0.0123 | 83 | 6,544 | 218 | 6,845 | 6,856 | (11) | 295 | 7,140 |
| Total Small Commercial | 587 | 0.0283152 | 88 | 3.8037873 | 0.7243 | 12.4908 | 0.0000 | 0.0123 | 19 | 1,463 | 73 | 1,555 | 1,633 | (77) | 67 | 1,622 |
| Total Large Commercial | 200 | 0.1942139 | 88 | 25.5985286 | 0.8311 | 17.0669 | 0.0000 | 0.0123 | 44 | 3,415 | 168 | 3,628 | 3,483 | 145 | 156 | 3,784 |
| Industrial | 5 | Contract Demand | - | - | - | - | - | - | - | - | - | 1,167 | 1,277 | (110) | - | 1,167 |
| <hr/> | | | | | | | | | | | | | | | | |
| | 8,077 | 0.0360311 | | 1.123066054 | | | | | 146 | 11,423 | 459 | 13,195 | 13,248 | (53) | 519 | 13,713 |
| | | | | | | | | | | | | | | -0.4% | | |

GRAND FORKS MN

| | | | | | | | | | | | | | | | | |
|------------------------|-------|-----------------|----|-------------|--------|---------|--------|--------|----|-------|----|-------|-------|-------|-----|-------|
| Total Residential | 2,806 | 0.0096728 | 98 | 0.0897791 | 0.9733 | 46.3781 | 0.0000 | 0.0123 | 33 | 2,660 | 8 | 2,701 | 2,713 | (12) | 116 | 2,817 |
| Total Small Commercial | 262 | 0.0216701 | 98 | 0.2630974 | 0.8115 | 15.8337 | 0.0000 | 0.0123 | 7 | 557 | 2 | 566 | 660 | (94) | 24 | 590 |
| Total Large Commercial | 91 | 0.1376824 | 98 | 15.3749813 | 0.9775 | 50.6715 | 0.0000 | 0.0123 | 16 | 1,224 | 46 | 1,286 | 1,233 | 53 | 55 | 1,341 |
| Industrial | 2 | Contract Demand | - | - | - | - | - | - | - | - | - | 172 | 156 | 16 | - | 172 |
| <hr/> | | | | | | | | | | | | | | | | |
| | 3,161 | 0.0391368 | | 0.135091365 | | | | | 55 | 4,441 | 56 | 4,725 | 4,762 | (38) | 196 | 4,921 |
| | | | | | | | | | | | | | | -0.8% | | |

FARGO MN

| | | | | | | | | | | | | | | | | |
|------------------------|--------|-----------------|----|-------------|--------|---------|--------|--------|-----|--------|-----|--------|--------|-------|-----|--------|
| Total Residential | 12,822 | 0.0081026 | 98 | 0.3260792 | 0.9696 | 43.3905 | 0.0000 | 0.0123 | 127 | 10,181 | 138 | 10,445 | 10,512 | (67) | 450 | 10,895 |
| Total Small Commercial | 1,086 | 0.0238449 | 98 | 0.8258907 | 0.8646 | 22.4579 | 0.0000 | 0.0123 | 31 | 2,537 | 29 | 2,598 | 2,665 | (67) | 112 | 2,710 |
| Total Large Commercial | 353 | 0.1491268 | 98 | 26.6586393 | 0.9746 | 47.5877 | 0.0000 | 0.0123 | 67 | 5,160 | 310 | 5,536 | 5,472 | 64 | 239 | 5,775 |
| Industrial | 7 | Contract Demand | - | - | - | - | - | - | - | - | - | 2,719 | 2,693 | 26 | - | 2,719 |
| <hr/> | | | | | | | | | | | | | | | | |
| | 14,267 | 0.0338525 | | 0.382500774 | | | | | 225 | 17,878 | 477 | 21,298 | 21,342 | (44) | 801 | 22,099 |
| | | | | | | | | | | | | | | -0.2% | | |

MN STATE

| | | | | | | | | | | | | | | | | |
|------------------------|---------|--|--|--|--|--|--|--|--|--|--|---------|---------|--------|--------|---------|
| Total Residential | 433,541 | | | | | | | | | | | 435,028 | 431,055 | 3,973 | 18,754 | 453,782 |
| Total Small Commercial | 25,043 | | | | | | | | | | | 77,133 | 75,271 | 1,862 | 3,325 | 80,458 |
| Total Large Commercial | 10,636 | | | | | | | | | | | 181,349 | 177,467 | 3,883 | 7,818 | 189,167 |
| Contract Demand | 136 | | | | | | | | | | | 27,566 | 26,056 | 1,510 | 0 | 27,566 |
| <hr/> | | | | | | | | | | | | | | | | |
| | 469,356 | | | | | | | | | | | 721,076 | 709,849 | 11,228 | 29,897 | 750,974 |
| | | | | | | | | | | | | | | 1.6% | | |

| Division/Region (1) | Projected Firm Jan 2021 Cust (2) | Load Variation (Dth/Deg) (3) X Variable 1 | DD/ Design Day (4) | Monthly Base Use (Dth) (5) Intercept | R-Square | | | Lost & Unacc. Factor (6) | Design Day (Dth) 2021 | | | | 2020 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 | 14,970 | 0.0093014 | 98 | 0.2932676 | 0.9776 | 50.7867 | 0.0000 | 0.0123 | 169 | 13,646 | 144 | 13,959 | 13,634 | 325 | 602 | 14,561 |
| Total Small Commercial | 2,254 | 0.0681749 | 98 | 10.7068935 | 0.9693 | 43.1378 | 0.0000 | 0.0123 | 194 | 15,058 | 794 | 16,046 | 15,360 | 686 | 692 | 16,738 |
| Total Large Commercial | - | - | 98 | - | 0.0000 | 0.0000 | 0.0000 | 0.0123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Industrial | - | Contract Demand | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - |
| | | | | | | | | | 364 | 28,703 | 938 | 30,005 | 28,994 | 1,011 | 1,294 | 31,299 |
| | | | | | | | | | 3.5% | | | | | | | |
| FARGO ND | | | | | | | | | | | | | | | | |
| Total Residential | 34,817 | 0.0089048 | 98 | 0.2636958 | 0.9799 | 53.6802 | 0.0000 | 0.0123 | 376 | 30,384 | 302 | 31,062 | 29,841 | 1,221 | 1,339 | 32,401 |
| Total Small Commercial | 6,547 | 0.0603991 | 98 | 9.6507226 | 0.9723 | 45.4953 | 0.0000 | 0.0123 | 501 | 38,752 | 2,078 | 41,331 | 39,471 | 1,859 | 1,782 | 43,113 |
| Total Large Commercial | - | - | 98 | - | 0.0000 | 0.0000 | 0.0000 | 0.0123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Industrial | - | Contract Demand | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - |
| | | | | | | | | | 877 | 69,135 | 2,380 | 72,393 | 69,313 | 3,080 | 3,121 | 75,514 |
| | | | | | | | | | 4.4% | | | | | | | |
| WBI ND | | | | | | | | | | | | | | | | |
| Total Residential | 1,235 | 0.0098784 | 98 | 0.3828711 | 0.9469 | 32.4489 | 0.0000 | 0.0123 | 15 | 1,196 | 16 | 1,226 | 1,158 | 68 | 53 | 1,279 |
| Total Small Commercial | 191 | 0.0718850 | 98 | 8.0434385 | 0.6613 | 10.7794 | 0.0000 | 0.0123 | 17 | 1,348 | 51 | 1,416 | 1,110 | 305 | 61 | 1,477 |
| Total Large Commercial | - | - | 98 | - | 0.0000 | 0.0000 | 0.0000 | 0.0123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Industrial | - | Contract Demand | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - |
| | | | | | | | | | 32 | 2,544 | 66 | 2,642 | 2,268 | 374 | 114 | 2,756 |
| | | | | | | | | | 16.5% | | | | | | | |
| ND STATE | | | | | | | | | | | | | | | | |
| Total Residential | 51,022 | | | | | | | | | | | 46,247 | 44,633 | 1,614 | 1,994 | 48,241 |
| Total Small Commercial | 8,992 | | | | | | | | | | | 58,792 | 55,941 | 2,851 | 2,535 | 61,327 |
| Total Large Commercial | 0 | | | | | | | | | | | - | - | - | - | - |
| Contract Demand | 0 | | | | | | | | | | | - | - | - | - | - |
| | | | | | | | | | | | | 105,040 | 100,574 | 4,465 | 4,528 | 109,568 |
| | | | | | | | | | 4.4% | | | | | | | |
| Grand Total | | | | | | | | | | | | | | | | |
| Total Residential | 484,563 | | | | | | | | | | | 481,275 | 475,689 | 5,587 | 20,748 | 502,023 |
| Total Small Commercial | 34,035 | | | | | | | | | | | 135,925 | 131,212 | 4,713 | 5,860 | 141,785 |
| Total Large Commercial | 10,636 | | | | | | | | | | | 181,349 | 177,467 | 3,883 | 7,818 | 189,167 |
| Contract Demand | 136 | | | | | | | | | | | 27,566 | 26,056 | 1,510 | - | 27,566 |
| | | | | | | | | | | | | 826,116 | 810,423 | 15,693 | 34,425 | 860,542 |
| | | | | | | | | | 1.9% | | | | | | | |

Northern States Power Company

DERIVATION OF MINNESOTA JURISDICTION ALLOCATION FACTOR

Avg Monthly DD Method

2020-2021 Heating Season

Revised from 7/31/20 filing

CUSTOMERS BY AREA (EXCLUDING DEMAND BILLED)

| Area | 2021 FORECAST | 2020 FORECAST | Difference | %Diff |
|---------------------|----------------|----------------|--------------|-------------|
| METRO | 331,905 | 328,997 | 2,908 | 0.9% |
| BRAINERD | 18,893 | 18,728 | 165 | 0.9% |
| MAINLINE | 15,602 | 15,639 | (36) | -0.2% |
| MAINLINE-WELCOME | 2,563 | 2,551 | 13 | 0.5% |
| WILLMAR | 12,224 | 10,996 | 1,227 | 11.2% |
| PAYNESVILLE | 35,748 | 36,242 | (495) | -1.4% |
| VGT-CHISAGO | 2,251 | 2,241 | 10 | 0.4% |
| WATKINS | 8,422 | 8,342 | 80 | 1.0% |
| TOMAH | 16,121 | 16,157 | (37) | -0.2% |
| RED WING | 8,072 | 8,078 | (6) | -0.1% |
| GRAND FORKS MN | 3,159 | 3,162 | (4) | -0.1% |
| FARGO MN | 14,260 | 14,113 | 147 | 1.0% |
| <hr/> | | | | |
| MN STATE | 469,220 | 465,247 | 3,973 | 0.9% |
| <hr/> | | | | |
| GRAND FORKS ND | 17,224 | 16,763 | 461 | 2.7% |
| FARGO ND | 41,364 | 39,665 | 1,699 | 4.3% |
| WBI ND | 1,427 | 1,343 | 84 | 6.2% |
| <hr/> | | | | |
| ND STATE | 60,014 | 57,771 | 2,243 | 3.9% |
| <hr/> | | | | |
| TOTAL NSP MN | 529,234 | 523,018 | 6,216 | 1.2% |

2021 Customer Counts

| | MN | ND | |
|--------|---------|--------|---------|
| Res | 433,541 | 51,022 | 484,563 |
| Sm Com | 25,043 | 8,992 | 34,035 |
| Lg Com | 10,636 | 0 | 10,636 |
| Ind | 136 | 0 | 136 |
| <hr/> | | | |
| | 469,356 | 60,014 | 529,370 |

2021 Design Day Use By Customer Class

| | MN | ND | |
|--------|---------|---------|---------|
| Res | 453,782 | 48,241 | 502,023 |
| Sm Com | 80,458 | 61,327 | 141,785 |
| Lg Com | 189,168 | 0 | 189,168 |
| Ind | 27,566 | 0 | 27,566 |
| <hr/> | | | |
| | 750,974 | 109,568 | 860,542 |

DESIGN DAY MMBTU DEMAND BY AREA

| Area | 2021 FORECAST | 2020 FORECAST | Difference | %Diff |
|---------------------|----------------|----------------|---------------|-------------|
| METRO | 524,147 | 518,744 | 5,403 | 1.0% |
| BRAINERD | 24,317 | 23,921 | 396 | 1.7% |
| MAINLINE | 27,264 | 27,236 | 28 | 0.1% |
| MAINLINE-WELCOME | 2,873 | 2,889 | (15) | -0.5% |
| WILLMAR | 16,003 | 14,692 | 1,311 | 8.9% |
| PAYNESVILLE | 76,816 | 76,119 | 697 | 0.9% |
| VGT-CHISAGO | 2,439 | 2,440 | (1) | -0.1% |
| WATKINS | 10,723 | 10,774 | (51) | -0.5% |
| TOMAH | 25,658 | 25,784 | (126) | -0.5% |
| RED WING | 13,713 | 13,841 | (127) | -0.9% |
| GRAND FORKS MN | 4,921 | 4,990 | (69) | -1.4% |
| FARGO MN | 22,099 | 22,265 | (166) | -0.7% |
| <hr/> | | | | |
| MN STATE | 750,974 | 743,696 | 7,278 | 1.0% |
| <hr/> | | | | |
| GRAND FORKS ND | 31,299 | 30,429 | 870 | 2.9% |
| FARGO ND | 75,514 | 72,743 | 2,770 | 3.8% |
| WBI ND | 2,756 | 2,381 | 375 | 15.8% |
| <hr/> | | | | |
| ND STATE | 109,568 | 105,553 | 4,015 | 3.8% |
| <hr/> | | | | |
| TOTAL NSP MN | 860,542 | 849,249 | 11,293 | 1.3% |

MN / ND Allocation Factors

| | 2021 DD | 2020 DD |
|--|---------|----------------------------|
| | 0.8727 | 0.8757 MN State Allocation |
| | 0.1273 | 0.1243 ND State Allocation |

NNG SYSTEM

| Area | 2021 FORECAST | 2020 FORECAST | Difference | %Diff |
|------------------|---------------|---------------|------------|-------|
| METRO | 524,147 | 518,744 | 5,403 | 1.0% |
| BRAINERD | 24,317 | 23,921 | 396 | 1.7% |
| MAINLINE | 27,264 | 27,236 | 28 | 0.1% |
| MAINLINE-WELCOME | 2,873 | 2,889 | (15) | -0.5% |
| WILLMAR | 16,003 | 14,692 | 1,311 | 8.9% |
| PAYNESVILLE | 76,816 | 76,119 | 697 | 0.9% |
| WATKINS | 10,723 | 10,774 | (51) | -0.5% |
| TOMAH | 25,658 | 25,784 | (126) | -0.5% |
| RED WING | 13,713 | 13,841 | (127) | -0.9% |
| <hr/> | | | | |
| NNG SUBTOTAL | 721,515 | 714,000 | 7,515 | 1.1% |

VGT SYSTEM

| Area | 2021 FORECAST | 2020 FORECAST | Difference | %Diff |
|-----------------|---------------|---------------|------------|-------|
| VGT-CHISAGO | 2,439 | 2,440 | (1) | -0.1% |
| GRAND FORKS MN | 4,921 | 4,990 | (69) | -1.4% |
| FARGO MN | 22,099 | 22,265 | (166) | -0.7% |
| GRAND FORKS ND | 31,299 | 30,429 | 870 | 2.9% |
| FARGO ND | 75,514 | 72,743 | 2,770 | 3.8% |
| WBI ND | 2,756 | 2,381 | 375 | 15.8% |
| <hr/> | | | | |
| VGT SUBTOTAL | 139,027 | 135,248 | 3,779 | 2.8% |
| <hr/> | | | | |
| VGT & NNG TOTAL | 860,542 | 849,248 | 11,294 | 1.3% |

PUBLIC DOCUMENT
NOT PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company
DEMAND COST OF GAS IMPACT - NOVEMBER 2020
Revised from 7/31/20 filing

Docket No. G002/M-20-633
REVISED Attachment 1
Schedule 2
Page 1 of 2

CHANGE IN CONTRACT DEMAND ENTITLEMENTS

| Contract Demand Entitlement Changes | Volume Dth/Day | Current | | Total Annual Cost |
|---|-------------------|-------------------------|------------------|----------------------|
| | | Monthly Demand Rates | No. of Months | |
| ANR FSS (Jan - Dec) ¹ | (12) | \$ 1.7820 | 12 | \$ (256.61) |
| ANR FTS-1 (Apr - Oct) ² | (4) | \$ 5.7290 | 7 | \$ (160.41) |
| VGT FT-A (Nov - Dec) ³ | (20,200) | \$ 4.3706 | 2 | \$ (176,572.24) |
| VGT FT-A (Jan - Oct) ³ | (20,200) | \$ 4.6653 | 10 | \$ (942,390.60) |
| VGT FT-A (Jan - Dec) ³ | 20,200 | \$ 3.8060 | 12 | \$ 922,574.40 |
| VGT FT-A (Nov - Dec) ³ | (29,002) | \$ 4.3706 | 2 | \$ (253,512.28) |
| VGT FT-A (Jan - Oct) ³ | (29,002) | \$ 4.6653 | 10 | \$ (1,353,030.31) |
| VGT FT-A (Jan - Dec) ³ | 29,002 | \$ 3.8060 | 12 | \$ 1,324,579.34 |
| VGT FT-A (Nov - Dec) ³ | (4,239) | \$ 4.3706 | 2 | \$ (37,053.95) |
| VGT FT-A (Jan - Mar) ³ | (4,239) | \$ 4.6653 | 3 | \$ (59,328.62) |
| VGT FT-A (Nov - Mar) ³ | 4,239 | \$ 3.8060 | 5 | \$ 80,668.17 |
| VGT FT-A (Nov - Dec) ³ | (10,000) | \$ 4.3706 | 2 | \$ (87,412.00) |
| VGT FT-A (Jan - Oct) ³ | (10,000) | \$ 4.6653 | 10 | \$ (466,530.00) |
| VGT FT-A (Jan - Dec) ³ | 10,000 | \$ 3.8060 | 12 | \$ 456,720.00 |
| VGT FT-A (Nov - Dec) ³ | (15,600) | \$ 5.3593 | 2 | \$ (167,210.16) |
| VGT FT-A (Jan - Oct) ³ | (15,600) | \$ 5.6540 | 10 | \$ (882,024.00) |
| VGT FT-A (Jan - Dec) ³ | 15,600 | \$ 4.7580 | 12 | \$ 890,697.60 |
| VGT FT-A (Nov - Dec) ³ | (1,903) | \$ 4.3706 | 2 | \$ (16,634.50) |
| VGT FT-A (Jan - Oct) ³ | (1,903) | \$ 4.6653 | 10 | \$ (88,780.66) |
| VGT FT-A (Jan - Dec) ³ | 1,903 | \$ 3.8060 | 12 | \$ 86,913.82 |
| VGT FT-A (Nov - Dec) ³ | (72,213) | \$ 5.3593 | 2 | \$ (774,022.26) |
| VGT FT-A (Jan - Oct) ³ | (72,213) | \$ 5.6540 | 10 | \$ (4,082,923.02) |
| VGT FT-A (Jan - Dec) ³ | 72,213 | \$ 4.7580 | 12 | \$ 4,123,073.45 |
| VGT FT-A (Nov - Dec) ³ | (15,000) | \$ 5.3593 | 2 | \$ (160,779.00) |
| VGT FT-A (Jan - Oct) ³ | (15,000) | \$ 5.6540 | 10 | \$ (848,100.00) |
| VGT FT-A (Jan - Dec) ³ | 15,000 | \$ 4.7580 | 12 | \$ 856,440.00 |
| VGT FT-A (Nov - Dec) ³ | (1,500) | \$ 4.7507 | 2 | \$ (14,252.10) |
| VGT FT-A (Jan - Oct) ³ | (1,500) | \$ 4.8293 | 10 | \$ (72,439.50) |
| VGT FT-A (Jan - Dec) ³ | 1,500 | \$ 3.9106 | 12 | \$ 70,390.80 |
| NNG TF12-Base (Nov-Dec) ⁴ | (104,117) | \$ 10.2300 | 2 | \$ (2,130,233.82) |
| NNG TF12-Base (Jan-Mar) ⁴ | (104,117) | \$ 10.3207 | 3 | \$ (3,223,680.97) |
| NNG TF12-Base (Nov-Mar) ⁴ | 104,117 | \$ 13.1450 | 5 | \$ 6,843,089.83 |
| NNG TF12-Base (Apr-Oct) ⁴ | (104,117) | \$ 10.3207 | 7 | \$ (7,521,922.25) |
| NNG TF12-Base (Apr-Oct) ⁴ | 104,117 | \$ 7.3030 | 7 | \$ 5,322,565.16 |
| NNG TF3 (Nov-Dec) ⁴ | (62,415) | \$ 15.1530 | 2 | \$ (1,891,548.99) |
| NNG TF3 (Jan-Mar) ⁴ | (62,415) | \$ 24.2448 | 3 | \$ (4,539,717.58) |
| NNG TF3 (Nov-Mar) ⁴ | 62,415 | \$ 19.4710 | 5 | \$ 6,076,412.33 |
| NNG TFX (Nov-Dec) ⁵ | (28,500) | \$ 15.1530 | 2 | \$ (863,721.00) |
| NNG TFX (Jan-Mar) ⁵ | (28,500) | \$ 28.8810 | 3 | \$ (2,469,325.50) |
| NNG TFX (Nov-Mar) ⁵ | 28,500 | \$ 19.4710 | 5 | \$ 2,774,617.50 |
| NNG TFX (Nov-Dec) ⁵ | (57,491) | \$ 15.1530 | 2 | \$ (1,742,322.25) |
| NNG TFX (Jan-Mar) ⁵ | (20,861) | \$ 28.8810 | 3 | \$ (1,807,459.62) |
| NNG TFX (Jan-Mar) ⁵ | (36,630) | \$ 22.1055 | 3 | \$ (2,429,173.40) |
| NNG TFX (Nov-Mar) ⁵ | 57,491 | \$ 19.4710 | 5 | \$ 5,597,036.31 |
| NNG TFX (Apr-Jun/Sept-Oct) ⁵ | 16,436 | \$ 7.3030 | 2 | \$ 240,064.22 |
| NNG TFX (Apr-Jun/Sept-Oct) ⁵ | (15,436) | \$ 10.8300 | 2 | \$ (334,343.76) |
| NNG TFX (Apr-Jun/Sept-Oct) ⁵ | (1,000) | \$ 10.0000 | 2 | \$ (20,000.00) |
| NNG TFX (Apr-Jun/Sept-Oct) ⁵ | 35,739 | \$ 7.3030 | 5 | \$ 1,305,009.59 |
| NNG TFX (Apr-Jun/Sept-Oct) ⁵ | (15,436) | \$ 10.8300 | 5 | \$ (835,859.40) |
| NNG TFX (Apr-Jun/Sept-Oct) ⁵ | (20,303) | \$ 10.0000 | 5 | \$ (1,015,150.00) |
| NNG TFX (Nov-Dec) ⁵ | (8,875) | \$ 15.1530 | 2 | \$ (268,965.75) |
| NNG TFX (Jan-Mar) ⁵ | (8,875) | \$ 28.8810 | 3 | \$ (768,956.63) |
| NNG TFX (Nov-Mar) ⁵ | 8,875 | \$ 19.4710 | 5 | \$ 864,025.63 |
| NNG TFX (Apr-Oct) ⁵ | (8,875) | \$ 10.8300 | 7 | \$ (672,813.75) |
| NNG TFX (Apr-Oct) ⁵ | 8,875 | \$ 7.3030 | 7 | \$ 453,698.88 |
| NNG FDD (Jan-Dec) ⁶ | (140,230) | \$ 1.7140 | 2 | \$ (480,708.44) |
| NNG FDD (Jan-Dec) ⁶ | (140,230) | \$ 3.7443 | 10 | \$ (5,250,631.89) |
| NNG FDD (Jan-Dec) ⁶ | 140,230 | \$ 2.8624 | 12 | \$ 4,816,732.22 |
| NNG FDD (Jan-Dec) ⁶ | (78,050) | \$ 1.7140 | 2 | \$ (267,555.40) |
| NNG FDD (Jan-Dec) ⁶ | (78,050) | \$ 3.7443 | 10 | \$ (2,922,426.15) |
| NNG FDD (Jan-Dec) ⁶ | 78,050 | \$ 2.8624 | 12 | \$ 2,680,923.84 |
| Total | | | | \$ (6,153,695.70) |

Supplier Entitlement Changes
Change in Supplier Reservation Fees
[PROTECTED DATA BEGINS]

| | |
|--|-------------------|
| [PROTECTED DATA BEGINS] | |
| Total | 2,700 |
| [PROTECTED DATA ENDS] | |
| Total MN & ND Demand Cost Adjustment | \$98,850.00 |
| [PROTECTED DATA ENDS] | |
| Total MN & ND Demand Cost Adjustment | (\$6,054,845.70) |
| Minnesota Allocation Factor (MN/ND Allocated Demand) | 87.27% |
| Total MN only Demand Cost Adjustment due to MN/ND Allocated Demand | \$ (5,284,063.84) |

¹ANR Third Revised Volume No. 1, Part 4.3 - Statement of Rates, v.1.1.0, Effective August 1, 2016
²ANR Third Revised Volume No. 1, Part 4.9 - Statement of Rates, v. 2.0.0, Effective April 1, 2017
³VGT Volume No. 1, Part 5.0 Statement of Rates, (RP19-1340) Effective January 1, 2020
⁴NNG Sixth Revised Volume No. 1, Fifteenth Revised Sheet No. 50 (RP19-1353), Effective January 1, 2020
⁵NNG Sixth Revised Volume No. 1, Eighteenth Revised Sheet No. 51 (RP19-1353), Effective January 1, 2020
⁶NNG Sixth Revised Volume No. 1, Second Revised Sheet No. 55 (RP19-1353), Effective January 1, 2020

DESIGN DAY CALCULATION

| | Jan-2021 Budget Customer | 2021 MMBtu Design Day ¹ | 2020 MMBtu Design Day ¹ | MMBtu Change |
|--|--------------------------------|--|--|-----------------|
| <u>State of Minnesota</u> | | | | |
| Residential | 433,541 | 453,782 | 452,392 | 1,390 |
| Commercial | 35,679 | 269,626 | 265,247 | 4,378 |
| Demand Billed | 136 | 27,566 | 26,056 | 1,510 |
| State of Minnesota Total | 469,356 | 750,974 | 743,696 | 7,278 |
| State of North Dakota Total | 60,014 | 109,568 | 105,553 | 4,015 |
| Total Xcel Energy - Gas Utility Operations | 529,370 | 860,542 | 849,248 | 11,294 |

¹ 91 Heating Degree Days for Design Day

DESIGN DAY ESTIMATE FROM ACTUAL USE PER CUSTOMER

UPC DD Method

| | Jan-2021 Budget Customer | Jan-2020 Budget Customer | Change |
|--|--------------------------------|--------------------------------|--------|
| <u>Minnesota Company</u> | | | |
| Residential | 484,563 | 479,125 | 5,438 |
| Commercial | 44,671 | 43,893 | 778 |
| TOTAL | 529,234 | 523,018 | 6,216 |
| Peak Day Use/Cust ² | 1.57393 | 1.57393 | |
| Peak Day Res. & Comm. MMBtus | 832,976 | 823,193 | |
| Demand Billed Customers | 136 | 135 | |
| Contracted Billing Demand of Demand Billed Customers | 27,566 | 26,056 | |
| Projected Design Day (Dth) | 860,542 | 849,249 | 11,294 |

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-2021 Budget | Jan-2020 Budget |
|--------------------------|--------------------|--------------------|
| Reserve Margin | 47,529 | 56,123 |
| Total Available Capacity | 908,071 | 905,371 |
| Entitlement per Customer | 1.7154 | 1.7306 |

**PUBLIC DOCUMENT
NOT PUBLIC DATA HAS BEEN EXCISED**

Docket No. G002/M-20-633
REVISED Attachment 1
Schedule 5
Page 1 of 1

Northern States Power Company
FIRM SUPPLY ENTITLEMENTS
2020-2021 Heating Season
Revised from 7/31/20 filing

| | Current Quantity Effective Nov-19 Dth/Day | Proposed Quantity Effective Nov-20 Dth/Day | Proposed Quantity Change Nov-20 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)

B. Minnesota Company Delivered Supply

WBI Firm 3rd Party
VGT Firm 3rd Party
NNG Firm 3rd Party
NNG FDD Storage

| | | | |
|------------------|---------|---------|-------|
| LP Peak Shaving | 90,000 | 90,000 | - |
| LNG Peak Shaving | 156,000 | 156,000 | - |
| TOTAL | 905,371 | 908,042 | 2,671 |

PROTECTED DATA ENDS]

C. Minnesota State Delivered Supply

| | | | |
|------------------------|---------|---------|-------|
| State of MN Allocators | 87.57% | 87.27% | |
| TOTAL | 792,833 | 792,448 | (385) |

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

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 (1) | Number of Firm Customers ² (2) | Design Day Requirement (Dth) (3) | Total Entitlement plus Storage plus Peak Shaving ³ (Dth) (4) | Peak Day Sendout (Dth) (5) | Heating Degree Days (6) | Actual Peak Day |
|------------------------------------|--|---|---|--|----------------------------------|--------------------|
| Proposed: 2020/2021 | 469,356 | 750,974 | 792,448 | Unknown | Unknown | Unknown |
| 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
2020-2021 Heating Season

Revised from 7/31/20 filing

| 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 | | 11.47% |
| 112183 | NNG TF12 VARIABLE (Max) | 0 | 0 | 0 | 10 yrs - 10/31/27 | | 0.00% |
| 112182 | NNG TF12 BASE (Disc) | 19,341 | 1,315 | 20,656 | 10 yrs - 10/31/27 | Annual Re-Determination | 2.27% |
| 112182 | NNG TF12 VARIABLE (Disc.) | 75,186 | (1,315) | 73,871 | 10 yrs - 10/31/27 | Annual Re-Determination | 8.13% |
| 112183 | NNG TF5 (Max) | 62,415 | 0 | 62,415 | 10 yrs - 10/31/27 | | 6.87% |
| 112182 | NNG TF5 (Disc.) | 29,599 | 0 | 29,599 | 10 yrs - 10/31/27 | | 3.26% |
| 111739 | NNG TFX (Nov-Mar) | 28,500 | 0 | 28,500 | 5 yrs - 10/31/22 | | 3.14% |
| 112185 | NNG TFX (Disc. Nov-Mar) | 58,184 | 0 | 58,184 | 10 yrs - 10/31/27 | | 6.41% |
| 112185 | NNG TFX (Disc. 12-month) | 36,654 | 0 | 36,654 | 10 yrs - 10/31/27 | | 4.04% |
| 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) | 57,491 | 0 | 57,491 | 10 yrs - 10/31/27 | | 6.33% |
| 112186 | NNG TFX 2 (Max) | 16,436 | 0 | 16,436 | 10 yrs - 10/31/27 | | Summer Only |
| 112186 | NNG TFX 5 (Max) | 35,739 | 0 | 35,739 | 10 yrs - 10/31/27 | | Summer Only |
| 112184 | NNG TFX (Disc.) | 25,000 | 0 | 25,000 | 10 yrs - 10/31/27 | | 2.75% |
| 122067 | NNG TFX (Disc. Nov-Mar) | 13,673 | 0 | 13,673 | 10 yrs - 10/31/27 | | 1.51% |
| 122067 | NNG TFX 7 (Disc) | 13,673 | 0 | 13,673 | 10 yrs - 10/31/27 | | Summer Only |
| 122068 | NNG TFX (Nov-Mar) | 8,875 | 0 | 8,875 | 10 yrs - 10/31/27 | | 0.98% |
| 122068 | NNG TFX 7 (Max) | 8,875 | 0 | 8,875 | 10 yrs - 10/31/27 | | Summer Only |
| [PROTECTED DATA BEGINS | | | | | | | |
| | VGT to NNG Chisago (1) | | | | | | |
| | VGT Pierz to NNG (2) | | | | | | |
| | Capacity Release | | | | | | |
| AF0044 | VGT FT-A 12 Mos. | 29,002 | 0 | 29,002 | 5 yrs - 10/31/23 | | 3.19% |
| AF0044 | VGT FT-A (Nov-Mar) | 4,239 | 0 | 4,239 | 5 yrs - 10/31/23 | | 0.47% |
| AF0103 | VGT FT-A 12 Mos. | 10,000 | 0 | 10,000 | 5 yrs - 10/31/24 | | 1.10% |
| AF0037 | VGT FT-A 12 Mos. | 15,600 | 0 | 15,600 | 5 yrs - 10/31/22 | | 1.72% |
| AF0116 | VGT FT-A 12 Mos. | 1,903 | 0 | 1,903 | 5 yrs - 5/31/21 | | 0.21% |
| AF0217 | VGT FT-A 12 Mos. | 72,213 | 0 | 72,213 | 5 yrs - 10/31/24 | | 7.95% |
| AF0218 | VGT FT-A 12 Mos. | 15,000 | 0 | 15,000 | 5 yrs - 10/31/24 | | 1.65% |
| AF0329 | VGT FT-A 12 Mos. | 20,200 | 0 | 20,200 | 5 yrs - 10/31/23 | | 2.22% |
| AF0353 | VGT FT-A 12 Mos. | 1,500 | 0 | 1,500 | 1 yrs - 10/31/21 | | 0.17% |
| | WBI FT-1097 | 8,000 | 0 | 8,000 | 6.5 yrs - 10/31/25 | | 0.88% |
| | WBI FT-157 | 461 | 0 | 461 | 20 yrs - 07/01/33 | | 0.05% |
| | City Gate Deliveries | 24,000 | 0 | 24,000 | 10 yrs - 10/31/22 | | 2.64% |
| | City Gate Deliveries | 11,000 | (11,000) | 0 | 1 yrs - 2/28/20 | Contract expiration | 0.00% |
| | City Gate Deliveries | | 5,000 | 5,000 | 3 mos - 2/29/21 | Seasonal Acquisition | 0.55% |
| | City Gate Deliveries | | 2,600 | 2,600 | 3 mos - 2/29/21 | Seasonal Acquisition | 0.29% |
| | City Gate Deliveries | | 6,100 | 6,100 | 3 mos - 2/29/21 | Seasonal Acquisition | 0.67% |
| | LP Peak Shaving | 90,000 | 0 | 90,000 | | | 9.91% |
| | LNG Peak Shaving | 156,000 | 0 | 156,000 | | | 17.18% |
| | Total Design Day Capacity | 905,371 | | 908,071 | | | 100% |
| | Heating Season Total | 905,371 | | 908,071 | | | |
| | Non-Heating Season Total | 491,061 | | 491,061 | | | |

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Northern States Power Company
COMPANY DEMAND PROFILE
2020-2021 Heating Season
Revised from 7/31/20 filing

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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 - 03/31/21 | |
| ANR FTS-106211 (Summer) (1) | 5,452 | (4) | 5,448 | 3 yrs - 03/31/21 | Fuel Adjustment |
| ANR FTS-106211 (Winter) (1) | 15,171 | 0 | 15,171 | 3 yrs - 03/31/21 | |
| ANR FTS-114492 12 Mos. (1) | 66,500 | 0 | 66,500 | 5 yrs - 10/31/2023 | |
| | | | | | |
| GLT FT1718539 (Winter) (2) | 3,509 | 0 | 3,509 | 2 yrs - 03/31/23 | Contract Extension |
| GLT FT1718539 (Summer) (2) | 5,370 | 0 | 5,370 | 2 yrs - 03/31/23 | Contract Extension |
| GLT Backhaul FT18129 (Nov-Mar) (2) | 9,248 | 0 | 9,248 | 2 yrs. - 03/31/23 | Contract Extension |
| | | | | | |
| NNG SMS (3) | 30,650 | | 30,650 | 5 yrs - 10/31/22 | |
| | | | | | |
| VGT OBA (3) | 7,400 | | 7,400 | month-to-month | |

Supply Entitlements (4)

[PROTECTED DATA BEGINS



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Storage Entitlements - Deliverability

| | | | | | |
|----------------------|---------|------|---------|------------------|--------------------|
| ANR Pipeline Storage | 15,276 | (12) | 15,264 | 3 yrs - 3/31/21 | Fuel adjustment |
| ANR Storage | 9,248 | 0 | 9,248 | 2 yrs - 3/31/23 | Contract Extension |
| FDD Service (5) | 140,230 | 0 | 140,230 | 5 yrs - 5/31/23 | |
| FDD Service | 78,050 | 0 | 78,050 | 15 yrs - 5/31/27 | |

Storage Entitlements - Capacity

| | | | | | |
|----------------------|-----------|-------|-----------|------------------|-----------------|
| ANR Pipeline Storage | 947,112 | (744) | 946,368 | 3 yrs - 3/31/21 | Fuel adjustment |
| ANR Storage | 1,165,000 | 0 | 1,165,000 | 2 yrs - 3/31/23 | |
| FDD Service (5) | 8,084,975 | 0 | 8,084,975 | 5 yrs - 5/31/23 | |
| 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 155,000 Dth in May 2022, 1,400,000 Dth in May 2023 & 6,529,975 Dth in May 2023

Northern States Power Company

REVISED Attachment 2

CHANGES TO CONTRACT ENTITLEMENTS AS OF NOVEMBER 1, 2020

Schedule 1

Revised from 7/31/20 filing

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| | Current Amount <u>Dth</u> | Proposed Change <u>Dth</u> | Proposed Amount <u>Dth</u> |
|---|---------------------------------|----------------------------------|----------------------------------|
| Total MN Company Available Capacity: | | | |
| Heating Season | 905,371 | 2,700 | 908,071 |
| Non-Heating Season | 491,061 | - | 491,061 |
| Heating Season | | | |
| Forecasted Design Day | 849,248 | 11,294 | 860,542 |
| Non-Heating Season | | | |
| Forecasted Design Day | N/A | N/A | N/A |
| Heating Season Capacity | | | |
| Reserve/(Shortage) | 56,123 | (8,594) | 47,529 |
| Non-Heating Season Capacity | | | |
| Reserve/(Shortage) | N/A | N/A | N/A |
| Heating Season Capacity | | | |
| Reserve/(Shortage) Margin % | 6.6% | -1.1% | 5.5% |
| Total MN State Available Capacity: | | | |
| State of MN Allocation Factor | 87.57% | -0.30% | 87.27% |
| State of MN Heating Season Capacity | 792,833 | (360) | 792,474 |
| State of MN Design Day Demand | 743,696 | 7,278 | 750,974 |
| State of MN Heating Season Capacity | | | |
| Reserve/(Shortage) | 49,137 | (7,638) | 41,500 |
| State of MN Heating Season Capacity | | | |
| Reserve/(Shortage) Margin % | 6.6% | -1.1% | 5.5% |

(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

Docket No. G002/M-20-633

REVISED Attachment 2

Revised from 7/31/20 filing

Schedule 2

Date to implement proposed changes: January 1, 2021

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\$/Dth

| | Last Rate Case (G002/GR-09- 1153) | Last Approved Demand Change (G002/M-19- 498) | Last Month PGA: October 2020 | Estimated Nov 2020 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) | \$5.5042 | \$2.0982 | \$2.0706 | \$3.1957 | -41.94% | 52.31% | 54.34% | \$1.1251 |
| Demand Cost of Gas (1) | \$0.9008 | \$1.0117 | \$0.9108 | \$0.9356 | 3.86% | -7.52% | 2.72% | \$0.0248 |
| Distribution Margin | \$1.8591 | \$1.7600 | \$1.7600 | \$1.7600 | -5.33% | 0.00% | 0.00% | \$0.0000 |
| Total per Dth Cost | \$8.2641 | \$4.8699 | \$4.7414 | \$5.8913 | -28.71% | 20.97% | 24.25% | \$1.1499 |
| Average Annual Usage (Dth) | 87 | 87 | 87 | 87 | | | | |
| Average Annual Total Cost | \$718.60 | \$423.45 | \$412.28 | \$512.27 | -28.71% | 20.97% | 24.25% | \$99.99 |
| Average Annual Total Demand Cost of Gas | \$78.33 | \$87.97 | \$79.20 | \$81.35 | | | | \$2.16 |
| Small Commercial | | | | | | | | |
| Commodity Cost of Gas (WACOG) | \$5.4871 | \$2.0982 | \$2.0706 | \$3.1957 | -41.76% | 52.31% | 54.34% | \$1.1251 |
| Demand Cost of Gas (1) | \$0.8984 | \$1.0343 | \$0.9407 | \$0.9673 | 7.67% | -6.48% | 2.83% | \$0.0266 |
| Distribution Margin | \$1.2331 | \$1.1673 | \$1.1673 | \$1.1673 | -5.33% | 0.00% | 0.00% | \$0.0000 |
| Total per Dth Cost | \$7.6186 | \$4.2998 | \$4.1786 | \$5.3303 | -30.04% | 23.97% | 27.56% | \$1.1517 |
| Average Annual Usage (Dth) | 284 | 284 | 284 | 284 | | | | |
| Average Annual Total Cost | \$2,163.87 | \$1,221.26 | \$1,186.83 | \$1,513.95 | -30.04% | 23.97% | 27.56% | \$327.11 |
| Average Annual Total Demand Cost of Gas | \$255.17 | \$293.77 | \$267.18 | \$274.74 | | | | \$7.56 |
| Large Commercial | | | | | | | | |
| Commodity Cost of Gas (WACOG) | \$5.4871 | \$2.0982 | \$2.0706 | \$3.1957 | -41.76% | 52.31% | 54.34% | \$1.1251 |
| Demand Cost of Gas (1) | \$0.8917 | \$0.9928 | \$0.8930 | \$0.9168 | 2.81% | -7.66% | 2.67% | \$0.0238 |
| Distribution Margin | \$1.2315 | \$1.1658 | \$1.1658 | \$1.1658 | -5.33% | 0.00% | 0.00% | \$0.0000 |
| Total per Dth Cost | \$7.6103 | \$4.2568 | \$4.1294 | \$5.2783 | -30.64% | 24.00% | 27.82% | \$1.1489 |
| Average Annual Usage (Dth) | 1,463 | 1,463 | 1,463 | 1,463 | | | | |
| Average Annual Total Cost | \$11,131.14 | \$6,226.19 | \$6,039.85 | \$7,720.28 | -30.64% | 24.00% | 27.82% | \$1,680.43 |
| Average Annual Total Demand Cost of Gas | \$1,304.24 | \$1,452.11 | \$1,306.14 | \$1,340.95 | | | | \$34.81 |

(1) Includes demand smoothing

| | Last Rate Case (G002/GR-09- 1153) | Last Approved Demand Change (G002/M-19- 498) | Last Month PGA: October 2020 | Estimated Nov 2020 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) | \$5.4926 | \$2.0982 | \$2.0706 | \$3.1957 | -41.82% | 52.31% | 54.34% | \$1.1251 |
| Demand Cost of Gas (1) | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | | | \$0.0000 |
| Distribution Margin | \$0.9635 | \$0.9121 | \$0.9121 | \$0.9121 | -5.33% | 0.00% | 0.00% | \$0.0000 |
| Total per Dth Cost | \$6.4561 | \$3.0103 | \$2.9827 | \$4.1078 | -36.37% | 36.46% | 37.72% | \$1.1251 |
| Average Annual Usage (Dth) | 7,936 | 7,936 | 7,936 | 7,936 | | | | |
| Average Annual Total Cost | \$51,236.58 | \$23,890.36 | \$23,671.33 | \$32,600.24 | -36.37% | 36.46% | 37.72% | \$8,928.91 |
| Average Annual Total Demand Cost of Gas | \$0.00 | \$0.00 | \$0.00 | \$0.00 | | | | \$0.00 |
| Medium Interruptible | | | | | | | | |
| Commodity Cost of Gas (WACOG) | \$5.4696 | \$2.0982 | \$2.0706 | \$3.1957 | -41.57% | 52.31% | 54.34% | \$1.1251 |
| Demand Cost of Gas (1) | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | | | \$0.0000 |
| Distribution Margin | \$0.4751 | \$0.4498 | \$0.4498 | \$0.4498 | -5.33% | 0.00% | 0.00% | \$0.0000 |
| Total per Dth Cost | \$5.9447 | \$2.5480 | \$2.5204 | \$3.6455 | -38.68% | 43.07% | 44.64% | \$1.1251 |
| Average Annual Usage (Dth) | 64,709 | 64,709 | 64,709 | 64,709 | | | | |
| Average Annual Total Cost | \$384,678.21 | \$164,877.81 | \$163,091.83 | \$235,896.18 | -38.68% | 43.07% | 44.64% | \$72,804.35 |
| Average Annual Total Demand Cost of Gas | \$0.00 | \$0.00 | \$0.00 | \$0.00 | | | | \$0.00 |
| Large Interruptible | | | | | | | | |
| Commodity Cost of Gas (WACOG) | \$5.5006 | \$2.0982 | \$2.0706 | \$3.1957 | -41.90% | 52.31% | 54.34% | \$1.1251 |
| Demand Cost of Gas (1) | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | | | \$0.0000 |
| Distribution Margin | \$0.4346 | \$0.4114 | \$0.4114 | \$0.4114 | -5.33% | 0.00% | 0.00% | \$0.0000 |
| Total per Dth Cost | \$5.9352 | \$2.5096 | \$2.4820 | \$3.6071 | -39.22% | 43.73% | 45.33% | \$1.1251 |
| Average Annual Usage (Dth) | 745,979 | 745,979 | 745,979 | 745,979 | | | | |
| Average Annual Total Cost | \$4,427,543.89 | \$1,872,132.07 | \$1,851,543.04 | \$2,690,844.37 | -39.22% | 43.73% | 45.33% | \$839,301.33 |
| 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> | <u>Commodity Change (\$/Dth)</u> | <u>Commodity Change (Percent)</u> | <u>Demand Change (\$/Dth)</u> | <u>Demand Change (Percent)</u> | <u>Demand Annual Change (\$/Dth)</u> | <u>Total Annual Change (\$/Dth)</u> | <u>Total Annual Change (Percent)</u> |
|-----------------------|----------------------------------|-----------------------------------|-------------------------------|--------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Residential | \$1.1251 | 54.34% | \$0.0248 | 2.72% | \$2.16 | \$99.99 | 24.25% |
| Small Commercial | \$1.1251 | 54.34% | \$0.0266 | 2.83% | \$7.56 | \$327.11 | 27.56% |
| Large Commercial | \$1.1251 | 54.34% | \$0.0238 | 2.67% | \$34.81 | \$1,680.43 | 27.82% |
| Small Interruptible | \$1.1251 | 54.34% | \$0.0000 | NA | \$0.00 | \$8,928.91 | 37.72% |
| Medium Interruptible | \$1.1251 | 54.34% | \$0.0000 | NA | \$0.00 | \$72,804.35 | 44.64% |
| Large Interruptible | \$1.1251 | 54.34% | \$0.0000 | NA | \$0.00 | \$839,301.33 | 45.33% |

DERIVATION OF CURRENT PGA COSTS

REVISED Attachment 2

Nov 2020 - Projected Costs (Actual prices will be determined Nov.1, 2020)*

Schedule 2

Revised from 7/31/20 filing

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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 | \$35,971,029 | \$30,694,414 | |
| 2. | x <u>Minnesota Design Day Ratio (2020 Demand Entitlement Filing)</u> | 87.27% | 87.27% | |
| 3. | Annual System Demand Allocation to MN | \$31,391,917 | \$26,787,015 | |
| 4. | <u>MN State Design Day (2020 Demand Entitlement Filing)</u> | 750,974 | 750,974 | |
| 5. | - <u>Small & Large Demand Billed Dth (2020 Demand Entitlement Filing)</u> | 27,566 | 27,566 | |
| 6. | Non-Demand Billed Design Day Dkt (4 - 5) | 723,408 | 723,408 | |
| 7. | Non-Demand Billed Allocation (3 x 6 / 4) | \$30,239,614 | \$25,803,744 | |
| 8. | Demand Billed Cost Allocation (3 - 7) | \$1,152,303 | \$983,271 | |
| 9. | MN Annual / Seasonal Firm Therm Sales (Forecast) | 600,560,216 | 454,645,576 | |
| 10. | Demand Unit Cost \$/Therm (7 / 9) | \$0.05035 | \$0.05676 | \$0.10711 |
| 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) | | | \$0.10711 |
| 14. | Total Demand Rate -Commercial (10 + 12) | | | \$0.10711 |
| <u>Demand Cost (Demand Billed)</u> | | | | |
| 15. | Cost Allocated to Demand Billed (8) | \$1,152,303 | \$983,271 | \$2,135,574 |
| 16. | / <u>Annual Contract Billing Demand (2020 Demand Entitlement Filing)</u> | | | 3,307,920 |
| 17. | Monthly Commercial Demand Billed Demand Rate | | | \$0.64559 |
| <u>Commodity Costs</u> | | | | <u>Monthly Cost</u> |
| 18. | NNG Annual/Best Effort/Viking/WBI/Xcel Energy Pk Shv | | | \$29,026,825 |
| 19. | x <u>MN Portion of Monthly Retail Sales</u> | | | 85.85% |
| 20. | MN Portion of Monthly Commodity Costs | | | \$24,919,529 |
| 21. | MN Budgeted Calendar Month Retail Therm Sales | | | 77,977,671 |
| 22. | Commodity Unit Cost \$/Therm (20 / 21) | | | \$0.31957 |
| <u>Total Gas Cost per Therm</u> | | | | |
| 23. | Residential (13 + 22) | | | \$0.42668 |
| 24. | Small & Large Commercial (14 +22) | | | \$0.42668 |
| 25. | Small & Large Demand Billed - Demand (17) | | | \$0.64559 |
| 26. | Small & Large Demand Billed - Commodity; All Interruptible (22) | | | \$0.31957 |

*Commodity costs are projected and for illustrative purposes only.

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Northern States Power Company
SUMMARY OF COMPANY HEDGE TRANSACTIONS
2020-2021 Heating Season

Docket No. G002/M-20-633
REVISED Attachment 3
Schedule 1
Page 2 of 2

Revised from 7/31/20 filing

| 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



PROTECTED DATA ENDS]

CERTIFICATE OF SERVICE

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

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

xx electronic filing

Docket No. G002/M-20-633

Dated this 29th day of October 2020

/s/

Lynnette Sweet
Regulatory Administrator

| First Name | Last Name | Email | Company Name | Address | Delivery Method | View Trade Secret | Service List Name |
|----------------|--------------------|-----------------------------------|--|--|--------------------|-------------------|------------------------|
| Tamie A. | Aberle | tamie.aberle@mdu.com | Great Plains Natural Gas Co. | 400 North Fourth Street Bismarck, ND 585014092 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| 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_20-633_M-20-633 |
| Gail | Baranko | gail.baranko@xcelenergy.com | Xcel Energy | 414 Nicollet Mall 7th Floor Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Robert S. | Carney, Jr. | | | 4232 Colfax Ave. S. Minneapolis, MN 55409 | Paper Service | No | OFF_SL_20-633_M-20-633 |
| John | Coffman | john@johncoffman.net | AARP | 871 Tuxedo Blvd. St. Louis, MO 63119-2044 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| 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_20-633_M-20-633 |
| Brooke | Cooper | bcooper@allete.com | Minnesota Power | 30 W Superior St Duluth, MN 558022191 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| George | Crocker | gwillc@nawo.org | North American Water Office | PO Box 174 Lake Elmo, MN 55042 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| James | Denniston | james.r.denniston@xcelenergy.com | Xcel Energy Services, Inc. | 414 Nicollet Mall, 401-8 Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Rebecca | Eilers | rebecca.d.eilers@xcelenergy.com | Xcel Energy | 414 Nicollet Mall - 401 7th Floor Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| | | | | | | | |

| First Name | Last Name | Email | Company Name | Address | Delivery Method | View Trade Secret | Service List Name |
|------------|------------------|----------------------------------|--|---|--------------------|-------------------|------------------------|
| 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_20-633_M-20-633 |
| Edward | Garvey | garveyed@aol.com | Residence | 32 Lawton St Saint Paul, MN 55102 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Edward | Garvey | edward.garvey@AESLconsulting.com | AESL Consulting | 32 Lawton St Saint Paul, MN 55102-2617 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Todd J. | Guerrero | todd.guerrero@kutakrock.com | Kutak Rock LLP | Suite 1750 220 South Sixth Street Minneapolis, MN 554021425 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Annete | Henkel | mui@mnuutilityinvestors.org | Minnesota Utility Investors | 413 Wacouta Street #230 St.Paul, MN 55101 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| 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_20-633_M-20-633 |
| Richard | Johnson | Rick.Johnson@lawmoss.com | Moss & Barnett | 150 S. 5th Street Suite 1200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Sarah | Johnson Phillips | sarah.phillips@stoel.com | Stoel Rives LLP | 33 South Sixth Street Suite 4200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Michael | Krikava | mkrikava@taftlaw.com | Taft Stettinius & Hollister LLP | 2200 IDS Center 80 S 8th St Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| 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_20-633_M-20-633 |

| First Name | Last Name | Email | Company Name | Address | Delivery Method | View Trade Secret | Service List Name |
|----------------|--------------------------------|--------------------------------------|--|--|--------------------|-------------------|------------------------|
| Peder | Larson | plarson@larkinhoffman.com | Larkin Hoffman Daly & Lindgren, Ltd. | 8300 Norman Center Drive Suite 1000 Bloomington, MN 55437 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Eric | Lipman | eric.lipman@state.mn.us | Office of Administrative Hearings | PO Box 64620 St. Paul, MN 551640620 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Pam | Marshall | pam@energycents.org | Energy CENTS Coalition | 823 7th St E St. Paul, MN 55106 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Mary | Martinka | mary.a.martinka@xcelenergy.com | Xcel Energy Inc | 414 Nicollet Mall 7th Floor Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| David | Moeller | dmoeller@allete.com | Minnesota Power | 30 W Superior St Duluth, MN 558022093 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Andrew | Moratzka | andrew.moratzka@stoel.com | Stoel Rives LLP | 33 South Sixth St Ste 4200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| David | Niles | david.niles@avantenergy.com | Minnesota Municipal Power Agency | 220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| 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_20-633_M-20-633 |
| 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_20-633_M-20-633 |
| 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_20-633_M-20-633 |

| First Name | Last Name | Email | Company Name | Address | Delivery Method | View Trade Secret | Service List Name |
|------------|----------------|-----------------------------------|-----------------------------|---|--------------------|-------------------|------------------------|
| Richard | Savelkoul | rsavelkoul@martinsquires.com | Martin & Squires, P.A. | 332 Minnesota Street Ste W2750 St. Paul, MN 55101 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Will | Seuffert | Will.Seuffert@state.mn.us | Public Utilities Commission | 121 7th PI E Ste 350 Saint Paul, MN 55101 | Electronic Service | Yes | OFF_SL_20-633_M-20-633 |
| Janet | Shaddix Elling | jshaddix@janetshaddix.com | Shaddix And Associates | 7400 Lyndale Ave S Ste 190 Richfield, MN 55423 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| James M | Strommen | jstrommen@kennedy-graven.com | Kennedy & Graven, Chartered | 150 S 5th St Ste 700 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_20-633_M-20-633 |
| Lynnette | Sweet | Regulatory.records@xcelenergy.com | Xcel Energy | 414 Nicollet Mall FL 7 Minneapolis, MN 554011993 | Electronic Service | Yes | OFF_SL_20-633_M-20-633 |
| Lisa | Veith | lisa.veith@ci.stpaul.mn.us | City of St. Paul | 400 City Hall and Courthouse 15 West Kellogg Blvd. St. Paul, MN 55102 | Electronic Service | No | OFF_SL_20-633_M-20-633 |