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Minneapolis, MN 55401

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March 1, 2024

**—Via Electronic Filing—**

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

RE: 2023 ANNUAL REPORT  
COMMISSION INVESTIGATION INTO SELF-COMMITMENT AND SELF-  
SCHEDULING OF LARGE BASELOAD GENERATION FACILITIES  
DOCKET NO. E999/CI-19-704

PLAN TO OFFER GENERATING RESOURCES INTO THE MISO MARKET ON A  
SEASONAL BASIS  
DOCKET NO. E002/M-19-809

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submit this annual report analyzing the Company's 2023 results of and future options for seasonal dispatch, self-commitment and self-scheduling in compliance with the Minnesota Public Utilities Commission's February 7, 2019 Order in Docket Nos. E999/AA-17-492 and E999/AA-18-373, November 13, 2019 Order in Docket No. E999/AA-18-373, July 15, 2020 Order in Docket No. E002/M-19-908, and the January 11, 2021, December 1, 2021, November 17, 2022, and November 8, 2023 Orders in Docket No. E999/CI-19-704.

Please note that portions of Attachment A, B, C, E, and F are marked as "Not Public." Certain data is considered to be "not public data" pursuant to Minn. Stat. §13.02, Subd.9, and is "Trade Secret" information pursuant to Minn. Stat. §13.37, subd. 1(b) as this data derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use.

We have electronically filed this document with the Minnesota Public Utilities Commission, and copies have been served on the parties on the attached service list. Please contact Rebecca Eilers at [rebecca.d.eilers@xcelenergy.com](mailto:rebecca.d.eilers@xcelenergy.com) or 612-330-5570 if you have any questions regarding this filing.

SINCERELY,

/s/

REBECCA EILERS  
REGULATORY MANAGER

Enclosures  
cc: Service List

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 AN INVESTIGATION  
INTO SELF-COMMITMENT AND SELF-  
SCHEDULING OF LARGE BASELOAD  
GENERATION FACILITIES

DOCKET NO. E999/CI-19-704

IN THE MATTER OF THE PETITION OF  
NORTHERN STATES POWER COMPANY FOR  
APPROVAL OF A PLAN TO OFFER  
GENERATING RESOURCES INTO THE  
MISO MARKET ON A SEASONAL BASIS

DOCKET NO. E002/M-19-809

**ANNUAL REPORT**

**OVERVIEW**

Northern States Power Company, doing business as Xcel Energy, submits this annual report analyzing the Company's commitment of its baseload generation and options for seasonal dispatch, self-commitment and self-scheduling in compliance with several Orders issued by the Minnesota Public Utilities Commission:

- Docket Nos. E999/AA-17-492 and E999/AA-18-373, ORDER ACCEPTING 2016-2017 REPORTS AND SETTING ADDITIONAL REQUIREMENTS, February 7, 2019 (February 7 Order);
- Docket No. E999/AA-18-373, ORDER ACCEPTING 2017-2018 ELECTRIC REPORTS AND SETTING ADDITIONAL REQUIREMENTS, November 13, 2019 (November 13 Order);
- Docket Nos. E002/AA-19-293 and E002/M-19-809, ORDER APPROVING PLAN AND REQUIRING FILING, July 15, 2020 (July 15 Order);
- Docket Nos. E999/CI-19-704 and E002/M-19-809, ORDER EVALUATING SELF-COMMITMENT AND SELF-SCHEDULING REPORTS AND ESTABLISHING ADDITIONAL FILING REQUIREMENTS, January 11, 2021 (January 11 Order);
- Docket No. E999/CI-19-704, ORDER ACCEPTING REPORTS AND SETTING ADDITIONAL REQUIREMENTS, December 1, 2021 (December 1 Order);

- Docket No. E999/CI-19-704, ORDER, NOVEMBER 17, 2022 (November 17 Order); and
- Docket Nos. E999/CI-19-704 and E002/M-19-809, ORDER, NOVEMBER 8, 2023 (November 8 Order).

We include additional reporting related to the Company's plan to offer generating resources into the MISO market on a seasonal basis as required by the Commission's July 15, 2020 ORDER APPROVING PLAN AND REQUIRING FILING in Docket No. E002/M-19-809 (July 15 Order).

We provide the requested analysis for calendar year 2023.

## **ANNUAL REPORT**

### **A. Analysis of Self-Commitment and Self-Scheduling Decisions for Calendar Year 2023**

In compliance with the above-noted Orders, we provide an analysis of self-commitment and self-scheduling decisions made during the calendar year 2023 reporting period.

The Company analyzed the economic impact of its self-commit actions for the period January – December 2023 by comparing the MISO day-ahead and real-time (DART) revenues and charges that Xcel Energy received from its self-commit approach for certain resources to the production costs of those resources to determine margin. While we cannot perform a what-if margin analysis of allowing MISO to commit and dispatch the Xcel Energy units, the Company did analyze the total DART margins of the actions it took to self-commit these resources.

The analysis evaluates actions taken for Xcel Energy's baseload units, exclusive of its Refuse Derived Fuel units. Additionally, the combined cycle and simple cycle combustion turbines are not included in the analysis because these generating resources are offered to MISO as economic units unless testing or operating directives (*i.e.* MISO or transmission operations directives) require otherwise. The baseload units included in the analysis comprise a large part of the Company's MISO settlement and are the bulk of our strategic self-commit decisions. Since 2019, the Company's practice is to offer our coal facilities with an economic commit status – as opposed to self-commit – as much as possible. The Company began in fall 2020 to suspend normal operations at King and Sherco 2 during non-peak seasons, as discussed in Docket No. E002/M-19-809. As noted in our April 29, 2022 Update Letter in this

docket, in March 2022, MISO’s Independent Market Monitor (IMM) raised new concerns regarding the reasonableness of our plans to idle King and Sherco 2. Since then, the units have been offered economically during the spring and the fall. However, the Commission’s November 8 Order requires the Company to develop a plan to operate the King plant only during the months of June, July, August, December, January, and February, other than for emergency or reliability purposes, unless the Company must offer the unit to fulfill capacity obligations.

In evaluating instances of self-commitment of these units, we also excluded hours when Xcel Energy’s self-commit action in the MISO market was unavoidable (*e.g.*, mandatory generating resource testing, fuel and steam offtake contract requirements, system reliability, and generating resource maintenance outages). These instances are noted in Attachments A and B in compliance with the January 11 Order.

The resulting DART margin by resource is shown in Figure 1. The DART margin during the strategic self-commit for the period was \$384,436,441, which means that market revenues during these self-commitment periods exceeded the production costs of the units as offered to MISO.

The Company has economically dispatched its nuclear units in MISO’s Day Ahead market since September 2019, in an effort to provide additional flexibility to the market. During conversations about fuel procurement for nuclear plants, we determined that the timing and amount of fuel procured during refueling could not be altered by the economic dispatch efforts that the Company had undertaken. Rather, the fuel costs for nuclear were treated as a fixed cost in this analysis, and these fuel costs were removed from the incremental offer prices for nuclear effective June 27, 2020. For purposes of this report, the estimated nuclear fuel costs are treated as fixed costs, and are included as “Remaining Fuel Costs” in the reporting as of June 27, 2020.

**Figure 1: 2023 DART Margin for Non-Discretionary Self-Commit of Baseload Units**

| 2023 DART Margin for Non-Discretionary Self-Commit of Baseload Units                       |               |              |               |                  |                  |                |                |
|--------------------------------------------------------------------------------------------|---------------|--------------|---------------|------------------|------------------|----------------|----------------|
| Net MISO Pmt - Production Costs - (cost)/benefit                                           |               |              |               |                  |                  |                |                |
| King                                                                                       | Sherco 1      | Sherco 2     | Sherco 3      | Prairie Island 1 | Prairie Island 2 | Monticello     | Total          |
| \$ 6,571,493                                                                               | \$ 26,399,794 | \$ 4,336,709 | \$ 13,264,792 | \$ 101,571,861   | \$ 90,461,563    | \$ 141,830,230 | \$ 384,436,441 |
| Net MISO Pmt - Total Production Costs including Remaining Unit Fuel Costs - (cost)/benefit |               |              |               |                  |                  |                |                |
| King                                                                                       | Sherco 1      | Sherco 2     | Sherco 3      | Prairie Island 1 | Prairie Island 2 | Monticello     | Total          |
| \$ 6,571,493                                                                               | \$ 18,944,338 | \$ 3,540,164 | \$ 12,862,394 | \$ 70,681,297    | \$ 61,904,747    | \$ 106,648,754 | \$ 281,153,188 |

We believe this DART margin data represents an appropriate metric for determining whether the Company’s self-commitment decisions were beneficial, and the data

provided in Figure 1 demonstrates that the Company's customers received value as a result of its decision to self-commit the baseload resources.

The Company has provided detailed analysis of the consequences of self-commitment of its generators in Attachments A, B and C, which include the required hourly, monthly or annual data items a through z, by unit, as detailed in Attachment A of the January 11 Order,<sup>1</sup> in addition to items noted in Order Point Nos. 8b, 8c, and 9 of the December 1 Order. We note that, when the Company submits a commit status of "Must-Run" for a unit (self-commits), it designates a resource as committed to MISO per Xcel Energy's request and makes the resource available for dispatch by MISO. To self-schedule for energy, Xcel Energy would have to submit a resource to operate at a specific MW value or operating level for energy and set the energy dispatch status to "Self-Schedule." For January – December 2023, Xcel Energy did not find any instances of self-scheduling of resources for energy; therefore, Attachments A-C do not capture the consequences of self-scheduling. The attachments do, however, present the impact of self-commitment.

As stated above, the analysis only includes instances when Xcel Energy strategically self-commits select baseload units. There are circumstances when self-commit is unavoidable, such as testing, operating directives from MISO or Transmission Operations, or third-party contractual requirements. Strategic decisions to self-commit units are based on a number of considerations, including MISO model limitations, contractual obligations, and system reliability.

Xcel Energy also strongly considers reliability when making decisions about self-committing units. Extreme weather conditions, elevated MISO conditions, high load days, tight capacity conditions, and transmission requirements increase reliability risks and are factored into our decisions to self-commit units.

Xcel Energy constantly monitors system conditions, looking for opportunities to lower customer costs. At times when we believe system reliability risks are low, as when renewable generation is forecasted to be high, loads are forecasted to be low, and plant availability is high, we have offered baseload units into MISO as economic, making them available to be de-committed. As noted above, since 2019 the Company's practice is to offer our coal facilities with an economic commit status.

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<sup>1</sup> Attachment A provides items a-t from the January 11 Order for coal units; Attachment B provides items a-t for nuclear units; Attachment C provides items u-z. We note that due to file size, only the first lines of each hourly tab include live formulas.

In addition, Xcel Energy continually evaluates opportunities to provide resource flexibility to MISO. Widening unit dispatch ranges, improving unit start capabilities, reducing cycling times, and exploring nuclear flexible operations gives MISO more opportunities to commit and dispatch our units economically.

Xcel Energy also seeks market changes that will accommodate better economic commit and dispatch opportunities. The development of a multi-day financial commitment market design in MISO will optimize these long lead resources, such as coal units, across multiple days while still honoring their operating parameters. A multi-day commitment process is able to evaluate reliability risks and minimize total production costs over a longer time horizon, making it a superior process and better suited to also optimize baseload resources with slower start-up times and longer minimum down times. Without a multi-day commitment there is less assurance that the market will commit and de-commit these units in an optimal manner on behalf of customers. Xcel Energy has been and remains an advocate for a multi-day commitment process for multiple years. At this time, MISO's Roadmap does not identify a multi-day commitment process as a project for this year or next.

#### *1. Minimum Operating Levels*

NSP continuously seeks to improve operational flexibility for its generating units and as part of this effort, NSP has worked to reduce the minimum required loading at Sherco 1 and Sherco 2 from 260 MW to 215 MW. This increased "turndown capability" produced an estimated \$77,768 in customer benefits in 2023. These benefits are calculated by comparing MISO Day Ahead/Real Time energy margins when the unit was in turndown to the estimated margins had the unit only dispatched to its previous economic minimum. Margins are based on MISO estimated energy settlement less unit production costs. Lower operational minimums accommodate additional renewables generation, decrease carbon emissions, and reduce production costs.

#### *2. Changes to Plant Operating Procedures and Physical Modifications*

Order Point 8e of the December 1 Order requires utilities to provide descriptions of changes to operating procedures and physical modifications to units to ensure plants are becoming more flexible to meet upcoming challenges as applicable.

On December 31, 2023, Unit 2 at the Sherco facility ceased generation and entered into retirement status. The three remaining units at the Company's coal plants, Sherco Units 1 and 3 and King Unit 1, have phased retirements plans with the last unit retiring in 2030. Prior to the retirement announcements the Company performed

testing, tuning, and revised operating procedures to lower the minimum operating load and increase ramp rate. Leading up to retirement operations, the Company will continue to utilize this knowledge and operating practices to maintain safe and compliant operations.

With the transition to a renewable energy-based profile, the coal units created a Seasonal Dispatch Best Practices document to address maintenance, layup, and equipment management during extended shutdowns. Capital investment has transitioned to the gas turbine fleet for quick response to the renewable variability. Within the gas turbine fleet, the Company is partnering with Original Equipment Manufacturers to perform control tuning, controls upgrades, and equipment upgrades to improve equipment flexibility and reliability. Additionally, we are working with permitting agencies to optimize regulatory requirements that maintain emissions goals while reducing operational constraints.

### *3. Best and Worst Case Scenario Analysis*

Order Point 10 of the December 1 Order requires the utilities to work together to develop a consistent method for estimating the best-case and worst-case potential for economic commitment for each plant. The utilities met and agreed that the Best case scenario can be represented by a year-round economic commitment scenario and a Worst case scenario can be represented by a year-round self-commitment or must-run scenario.

In the Worst case scenario, we assumed all historic outages and all the offered costs and adders for each unit for the year. For all hours outside of the outages, the unit was must-run by the model. In the Best case scenario, we assumed all existing constraints, such as outages and nondiscretionary must-runs of the units, but allowed the units to be economically committed all other hours. We also assumed all offered costs and adders that we had for the year for this case. Commitment decisions by the PLEXOS model were based on the economics of the unit over a 24-hour commit period, similar to how MISO would make commit decisions. In the Economic case, we also calculated an estimated Make Whole Payment to replicate recovery of start costs and losses for the first 24 hours of a unit's operation when the model committed the unit economically.

The Best and Worst case scenario analysis studies each unit individually relative to a fixed market price curve. The results of this analysis are provided as Attachment D.

In 2023, the Economic case resulted in higher margins than the Must Run case at Sherco 1 and Sherco 3. At King and Sherco 2, the Must Run case resulted in higher

net benefits (Profit/Loss) than the Economic study. What's remarkable with the 2023 results is that annual differences between these cases for all four units are relatively small. The largest difference is at Sherco 1 with \$3.1 million more margins in the Economic case than Must Run. The smallest was at King with \$311,000 more margins in the Must Run case than Economic.

The monthly comparisons between the Must Run and Economic cases highlight more variances. At King, lower LMPs in the first part of the year resulted in negative margins had the unit been must run. However, higher LMPs in the later part of the year benefited the Must Run case, making up for much of the losses from earlier in the year. Despite higher market prices in the last quarter of the year, the Plexos model did not pick up King in the Economic case due to its extended 48-hour start-up time. This longer start-up time effectively made the unit unavailable for economic commit in Plexos and by MISO.

Market prices also explain much of the difference between Sherco 2's Must Run and Economic cases. Had Sherco 2 stayed online for much of the first quarter, it would have resulted in more losses than had the unit been Economically offered. It was the reverse in the last quarter of the year, where higher LMPs benefited the Must Run case since the model kept the unit online. However, in the Economic case, daily LMPs in the last six weeks of the year were not enough for the model to overcome the high start-up cost of the unit thus keeping it offline. This highlights the limitations of both the Plexos and MISO models, which only consider a unit's costs in the next 24-hours to determine the benefits of operating it, rather than considering the benefits of operating it over multiple days.

For Sherco 1, the bulk of the total difference between the Must Run and Economic cases were in the last quarter's results. Sherco 1's costs in October and November included an opportunity cost adder for its scrubber modules. The adder was used to encourage decommitment of the unit to clean out the scrubber modules to bring the unit back to full load. The work could only be done while the unit was offline, but it was still available for commitment if prices in the market were high enough to start the unit. This cost in the Must Run case caused the large loss compared to the Economic case, which had the unit decommitted.

The differences in monthly results of Sherco 3's Must Run and Economic cases were the tightest of all four coal units. The biggest variance, and the only month with margin losses, was in February. With the lower LMPs that month, the decision was made to economically cycle the unit. Had it been must run, it would have resulted in larger losses.

**Figure 2: Unit Day Ahead Margins in Best, Worst and Actual Cases<sup>2</sup>**

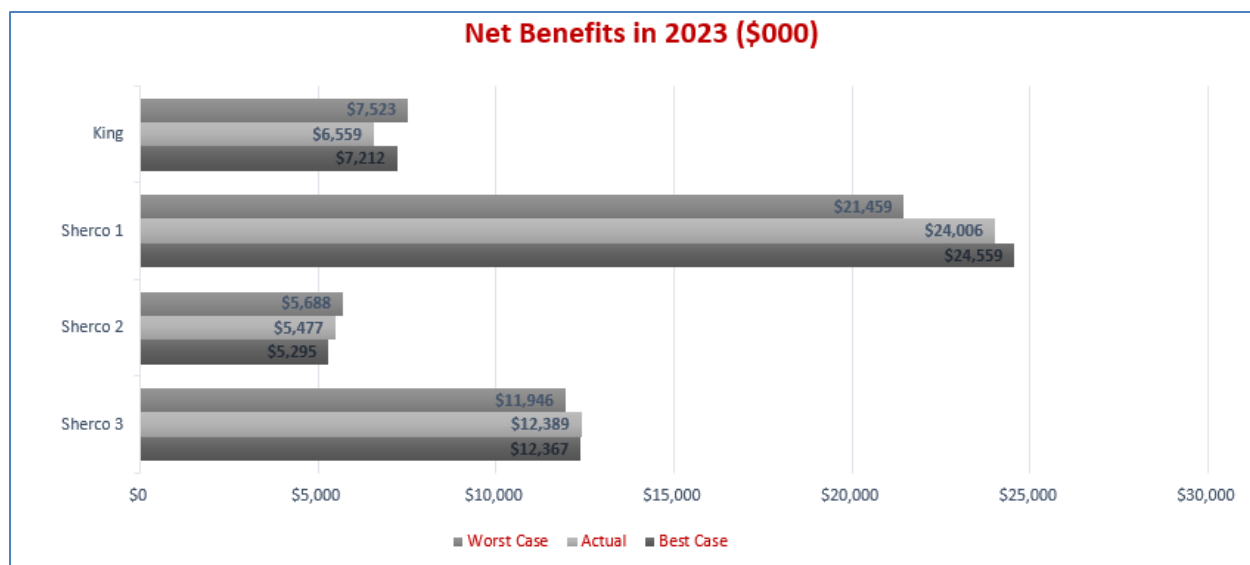


Figure 2 is a comparison of unit Day Ahead margins in the Best, Worst, and Actual cases. For all units, the differences between the annual results of their three cases were fairly minimal. While there are more variances in the monthly results between the Worst case and the Best and Actual cases, the results of the Best and Actual cases were very consistent throughout the year.

## **B. Analysis of Economic and Seasonal Dispatch Options at Sherco Units 1 and 3**

### *1. Impacts of SMMPA Partnership on Dispatch of Sherco 3*

While both Xcel Energy and SMMPA recognize that there are opportunities to offer Sherco 3 economically to MISO, SMMPA notified Xcel Energy of its intent to terminate the Coordination Agreement on November 29, 2022, citing concerns of economic loss when Sherco 3 was offline, the lack of MISO multi-day unit commit modeling, wear and tear on the unit due to increased cycling, and the risk of reduced capacity accreditation. The Agreement was terminated effective December 1, 2023.

With the termination, SMMPA and Xcel Energy returned to the original joint operating agreement between the two companies. Under the agreement, each partner is its own Market Participant managing their pro-rata offer of the plant to MISO. As such, if the partners offer their respective share of the unit economically to MISO,

<sup>2</sup> The Best case scenario is represented by a year-round economic commitment scenario and the Worst case scenario is represented by a year-round self-commitment or must-run scenario.

MISO may commit one share of the facility, but not the other. The commitment of one share of Sherco 3 necessitates the operation of the other partner's share, regardless of economic opportunities to decommit the other portion, as the operating minimum of the total facility requires both shares. However, both parties remain in continuous discussions regarding opportunities for discretionary Economic commitments of the plant.

2. *Analysis of Sherco 1 Economic Dispatch Feasibility and Auxiliary Boiler Project Update*

The Commission's December 1 Order directed the Company to update the Commission and stakeholders in the next annual report on when milestones in the Sherco auxiliary boiler project are reached, including: completion of boiler construction; approval, denial, or delay of the Air Emission Permit amendment; decisions made by Xcel Energy and/or Liberty Paper, Inc. relating to the sources of steam used by Liberty Paper, Inc.; and updates to the feasibility and use of economic commitment at Sherco Unit 1.

We received our revised air permit on September 11, 2023, which removed all synthetic minor PSD limits that previously applied to the Auxiliary Boilers. As of January 1, 2024, the Auxiliary Boilers are not limited in their operation on both gas and fuel oil.

3. *Annual Carbon Dioxide Emissions and Avoided Emissions*

Table 1 below shows the total carbon dioxide emissions by unit in 2023 as required by Order Point No. 8a of the December 1 Order in addition to avoided carbon dioxide emissions due to economic commitment as required by Order Point No. 7a of the November 17 Order. Emissions for Sherco 3 reflect Xcel Energy's share.

**Table 1: 2023 CO<sup>2</sup> Emissions by Unit**

| Unit     | Actual Tons | Avoided Tons |
|----------|-------------|--------------|
| King     | 1,094,107   | 1,728,499    |
| Sherco 1 | 3,205,467   | 405,743      |
| Sherco 2 | 1,390,671   | 463,488      |
| Sherco 3 | 1,925,692   | 107,850      |

#### 4. *Equivalent Forced Outage Rates*

Per Order Point No. 8d of the December 1 Order and Order Point No. 7b of the November 17 Order, we provide the Equivalent Forced Outage Rates (EFORs) by month as Attachment E.

#### 5. *Conclusion*

As discussed above, at this time we are not able to offer additional units on a seasonal basis. Due to the termination of the Coordination Agreement, Sherco 3 is not currently being offered on an economic basis. We will look for opportunities to offer Sherco 1 on an economic basis, subject to operational and customer commitments. We will continue to assess the status of these units and our capacity needs with a goal of being able to offer these resources into the market in the best interest of our customers.

### **C. Analysis of Seasonal Dispatch Plan Implementation at King and Sherco 2**

#### 1. *Comparison of Must-Commit, Economic Commit and Seasonal Commit Scenarios and Emissions*

In compliance with the July 15 Order, we provide the following analysis of our Unit Commitment Plan for King and Sherco 2 (or 1), under which we seasonally dispatched those units beginning in fall 2020. Seasonal Operation was occurring from March-May and again from September-November. However, as noted above, King and Sherco 2 did not operate on a seasonal basis in 2023; therefore, no seasonal analysis for coal units was performed.

#### 2. *King Dispatch Plan*

In compliance with the November 8 Order, the Company filed its plan for seasonal operation of the King plant on November 12, 2023. The Company will add a social cost of carbon (SCC) value to energy offers for the plant during the “off” months of March, April, May, September, October, and November. The Company will not add the SCC to energy offers for the King Plant during the “on” months of June, July, August, December, January, and February. This plan was approved by the Commission’s January 12, 2024 Notice of Approval of Compliance Filing.

### *3. Capital and O&M Costs*

King and Sherco Unit 2 were unable to be idled during the spring of 2023 since they were cleared for capacity in the 2022/2023 Planning Resource Auction (PRA). As noted above, King and Sherco 2 did not operate on a seasonal basis in 2023. Capital investments were minimal for Sherco Unit 2 due to a retirement date of December 31, 2023. King and Sherco's O&M cost savings were impacted due to only minimal operations during the fall.

### *4. Workforce Impacts*

No employees were negatively impacted due to seasonal operations at King and Sherco 2, though as noted above, King and Sherco 2 did not operate on a seasonal basis in 2023.

As we discussed in our April 1, 2020 supplement in Docket No. E002/M-19-809, plant managers have been engaging with employees regarding the future of our coal plants for several years. We continue to hold quarterly Just Transition communication meetings with employees at Sherco and King Plant. At the quarterly meetings, Senior Leadership and Plant Management stress the importance of keeping the workforce through the retirement of coal operation and then transferring their skills to other areas of the Company. Potential positions for employees after coal is retired include positions within the Company's Transmission, Distribution, or Gas business units, and positions at Nuclear Power Plants, Combined Cycle Plants, or Service Centers.

## **D. Additional Compliance Items**

### *1. Wind Curtailment*

Per Order Point No. 7c of the November 17 Order, we provide monthly energy produced and curtailed from utility owned and contracted wind facilities for each facility as Attachment F. We note that this information is also provided as Part C, Attachment 2 and 2a of our March 1, 2024 Annual Fuel Forecast True-up Report for 2023 in Docket No. E002/AA-22-179.

## CONCLUSION

We respectfully request that the Commission accept this filing in compliance with the November 13, 2019 ORDER ACCEPTING 2017-2018 ELECTRIC REPORTS AND SETTING ADDITIONAL REQUIREMENTS in Docket No. E999/AA-18-373, the February 7, 2019 ORDER ACCEPTING 2016-2017 REPORTS AND SETTING ADDITIONAL REQUIREMENTS in Docket Nos. E999/AA-17-492 and E999/AA-18-373; the July 15, 2020 ORDER APPROVING PLAN AND REQUIRING FILING in Docket Nos. E002/AA-19-293 and E002/M-19-809; the January 11, 2021 ORDER EVALUATING SELF-COMMITMENT AND SELF-SCHEDULING REPORTS AND ESTABLISHING ADDITIONAL FILING REQUIREMENTS in Docket Nos. E999/CI-19-704 and E002/M-19-809, the December 1, 2021 ORDER ACCEPTING REPORTS AND SETTING ADDITIONAL REQUIREMENTS in Docket No. E999/CI-19-704, the November 17, 2022 ORDER in Docket No. E999/CI-19-704, and the November 8, 2023 ORDER ACCEPTING ANNUAL FILINGS AND REQUIRING ADDITIONAL FILING in Docket Nos. E999/CI-19-704 and E002/M-19-809.

Dated: March 1, 2024

Northern States Power Company

**Attachment A is being submitted as a live file.**

**Attachment B is being submitted as a live file.**

**Attachment C is being submitted as a live file.**

| King   | MR        |            |            |                       |              |           |  | ECON      |            |            |                       |                    |           |              | ECON less MR |             |              |              |                       |                    |             |              |
|--------|-----------|------------|------------|-----------------------|--------------|-----------|--|-----------|------------|------------|-----------------------|--------------------|-----------|--------------|--------------|-------------|--------------|--------------|-----------------------|--------------------|-------------|--------------|
|        | MWh       | Gen Cost   | Revenue    | Profit (+) / Loss (-) | CO2 (000 lb) | run hours |  | MWh       | Gen Cost   | Revenue    | Profit (+) / Loss (-) | P/L with Estimated |           | CO2 (000 lb) | run hours    | MWh         | Gen Cost     | Revenue      | Profit (+) / Loss (-) | P/L with Estimated |             |              |
|        |           |            |            |                       |              |           |  |           |            |            |                       | Estimated MWP      | MWP       |              |              |             |              |              |                       | MWP                | MWP         | CO2 (000 lb) |
| Jan-23 | 311,483   | 9,684,391  | 9,331,869  | (352,521)             | 733,853      | 720       |  | 102,458   | 3,447,718  | 3,550,285  | (50,986)              | 153,553            | 102,567   | 241,390      | 229          | (209,025)   | (6,236,673)  | (5,781,584)  | 301,535               | 455,088            | (492,463)   | (491)        |
| Feb-23 | 224,196   | 7,164,087  | 4,796,694  | (2,367,392)           | 528,206      | 599       |  | 55,744    | 1,723,439  | 1,324,738  | (398,701)             | -                  | (398,701) | 131,332      | 144          | (168,453)   | (5,440,648)  | (3,471,957)  | 1,968,691             | 1,968,691          | (396,874)   | (455)        |
| Mar-23 | 347,633   | 8,326,756  | 9,182,571  | 855,815               | 819,022      | 744       |  | -         | -          | -          | -                     | -                  | -         | -            | -            | (347,633)   | (8,326,756)  | (9,182,571)  | (855,815)             | (855,815)          | (819,022)   | (744)        |
| Apr-23 | 301,544   | 7,418,938  | 7,109,261  | (309,677)             | 710,437      | 720       |  | 129,560   | 3,371,111  | 3,265,932  | (105,179)             | -                  | (105,179) | 305,243      | 308          | (171,984)   | (4,047,827)  | (3,843,329)  | 204,498               | 204,498            | (405,194)   | (412)        |
| May-23 | 227,919   | 5,503,404  | 5,323,178  | (180,226)             | 536,977      | 534       |  | 70,049    | 1,758,935  | 2,078,596  | 141,851               | 177,810            | 319,661   | 165,035      | 158          | (157,870)   | (3,744,469)  | (3,244,582)  | 322,077               | 499,887            | (371,942)   | (376)        |
| Jun-23 | 183,816   | 4,167,206  | 5,569,562  | 1,402,356             | 433,071      | 408       |  | 183,816   | 4,167,206  | 5,569,562  | 1,402,356             | -                  | 1,402,356 | 433,071      | 408          | -           | -            | -            | -                     | -                  | -           | -            |
| Jul-23 | 318,899   | 7,452,341  | 10,660,413 | 3,208,072             | 751,327      | 696       |  | 316,712   | 7,444,332  | 10,620,763 | 3,176,431             | -                  | 3,176,431 | 746,172      | 690          | (2,188)     | (8,010)      | (39,651)     | (31,641)              | (31,641)           | (5,154)     | (6)          |
| Aug-23 | 158,314   | 3,977,728  | 6,438,151  | 2,460,424             | 372,987      | 345       |  | 147,677   | 3,716,801  | 6,431,671  | 2,552,989             | 161,882            | 2,714,870 | 347,926      | 317          | (10,637)    | (260,927)    | (6,480)      | 92,565                | 254,447            | (25,060)    | (28)         |
| Sep-23 | -         | -          | -          | -                     | -            | -         |  | -         | -          | -          | -                     | -                  | -         | -            | -            | -           | -            | -            | -                     | -                  | -           | -            |
| Oct-23 | 263,453   | 6,697,520  | 7,710,446  | 1,012,926             | 620,694      | 585       |  | -         | -          | -          | -                     | -                  | -         | -            | -            | (263,453)   | (6,697,520)  | (7,710,446)  | (1,012,926)           | (1,012,926)        | (620,694)   | (585)        |
| Nov-23 | 329,734   | 8,183,522  | 9,723,508  | 1,539,986             | 776,853      | 720       |  | -         | -          | -          | -                     | -                  | -         | -            | -            | (329,734)   | (8,183,522)  | (9,723,508)  | (1,539,986)           | (1,539,986)        | (776,853)   | (720)        |
| Dec-23 | 329,513   | 8,767,771  | 9,020,699  | 252,929               | 776,331      | 744       |  | -         | -          | -          | -                     | -                  | -         | -            | -            | (329,513)   | (8,767,771)  | (9,020,699)  | (252,929)             | (252,929)          | (776,331)   | (744)        |
| Total  | 2,996,502 | 77,343,664 | 84,866,353 | 7,522,690             | 7,059,758    | 6,815     |  | 1,006,015 | 25,629,541 | 32,841,546 | 6,718,760             | 493,244            | 7,212,004 | 2,370,170    | 2,254        | (1,990,487) | (51,714,123) | (52,024,807) | (803,930)             | (310,685)          | (4,689,587) | (4,561)      |

| Sherco1 | MR        |            |             |                       |              |           |  | ECON      |            |            |                       |                    |            |              | ECON less MR |           |              |              |                       |                    |           |              |
|---------|-----------|------------|-------------|-----------------------|--------------|-----------|--|-----------|------------|------------|-----------------------|--------------------|------------|--------------|--------------|-----------|--------------|--------------|-----------------------|--------------------|-----------|--------------|
|         | MWh       | Gen Cost   | Revenue     | Profit (+) / Loss (-) | CO2 (000 lb) | run hours |  | MWh       | Gen Cost   | Revenue    | Profit (+) / Loss (-) | P/L with Estimated |            | CO2 (000 lb) | run hours    | MWh       | Gen Cost     | Revenue      | Profit (+) / Loss (-) | P/L with Estimated |           |              |
|         |           |            |             |                       |              |           |  |           |            |            |                       | Estimated MWP      | MWP        |              |              |           |              |              |                       | MWP                | MWP       | CO2 (000 lb) |
| Jan-23  | 330,625   | 8,935,857  | 10,184,187  | 1,248,331             | 813,668      | 744       |  | 201,496   | 5,692,341  | 6,394,614  | 702,273               | -                  | 702,273    | 495,882      | 448          | (129,129) | (3,243,516)  | (3,789,574)  | (546,058)             | (546,058)          | (317,786) | (296)        |
| Feb-23  | 120,050   | 3,344,716  | 2,429,370   | (915,346)             | 295,443      | 384       |  | 114,590   | 3,187,729  | 2,292,246  | (895,483)             | -                  | (895,483)  | 282,006      | 363          | (5,460)   | (156,987)    | (137,124)    | 19,863                | 19,863             | (13,437)  | (21)         |
| Mar-23  | 310,835   | 8,295,944  | 8,466,430   | 170,486               | 764,966      | 672       |  | 262,438   | 7,120,285  | 7,292,530  | 172,244               | -                  | 172,244    | 645,861      | 547          | (48,397)  | (1,175,658)  | (1,173,900)  | 1,758                 | 1,758              | (119,105) | (125)        |
| Apr-23  | 17,498    | 490,995    | 361,019     | (129,976)             | 43,063       | 56        |  | -         | -          | -          | -                     | -                  | -          | -            | -            | (17,498)  | (490,995)    | (361,019)    | 129,976               | 129,976            | (43,063)  | (56)         |
| May-23  | 302,440   | 8,094,603  | 8,379,007   | 284,404               | 744,305      | 664       |  | 293,264   | 7,856,445  | 8,082,542  | 226,097               | -                  | 226,097    | 721,723      | 648          | (9,176)   | (238,157)    | (296,464)    | (58,307)              | (58,307)           | (22,582)  | (16)         |
| Jun-23  | 383,487   | 8,812,750  | 13,745,066  | 4,932,316             | 943,762      | 696       |  | 382,411   | 8,875,366  | 13,722,264 | 4,846,899             | -                  | 4,846,899  | 941,113      | 693          | (1,076)   | 62,616       | (22,801)     | (85,417)              | (85,417)           | (2,648)   | (3)          |
| Jul-23  | 440,580   | 6,034,442  | 15,016,162  | 8,981,720             | 1,084,267    | 744       |  | 440,580   | 6,034,442  | 15,016,162 | 8,981,720             | -                  | 8,981,720  | 1,084,267    | 744          | -         | -            | -            | -                     | -                  | -         | -            |
| Aug-23  | 341,155   | 4,798,101  | 12,180,336  | 7,382,236             | 839,582      | 744       |  | 341,155   | 4,798,101  | 12,180,336 | 7,382,236             | -                  | 7,382,236  | 839,582      | 744          | -         | -            | -            | -                     | -                  | -         | -            |
| Sep-23  | 280,648   | 6,823,651  | 8,475,877   | 1,652,226             | 690,674      | 720       |  | 258,280   | 6,246,374  | 7,881,497  | 1,635,124             | -                  | 1,635,124  | 635,627      | 647          | (22,368)  | (577,277)    | (594,379)    | (17,102)              | (17,102)           | (55,047)  | (73)         |
| Oct-23  | 252,491   | 9,732,546  | 7,722,812   | (2,009,735)           | 621,381      | 744       |  | 157,586   | 4,296,074  | 4,926,365  | 630,291               | -                  | 630,291    | 387,820      | 384          | (94,905)  | (5,436,473)  | (2,796,447)  | 2,640,026             | 2,640,026          | (233,561) | (360)        |
| Nov-23  | 278,197   | 9,367,297  | 8,775,630   | (591,667)             | 684,643      | 720       |  | 218,927   | 6,207,648  | 6,631,756  | 424,108               | -                  | 424,108    | 538,779      | 500          | (59,270)  | (3,159,649)  | (2,143,875)  | 1,015,775             | 1,015,775          | (145,863) | (220)        |
| Dec-23  | 338,433   | 9,134,744  | 9,588,370   | 453,626               | 832,882      | 744       |  | 338,433   | 9,134,744  | 9,588,370  | 453,626               | -                  | 453,626    | 832,882      | 744          | -         | -            | -            | -                     | -                  | -         | -            |
| Total   | 3,396,439 | 83,865,644 | 105,324,265 | 21,458,621            | 8,358,636    | 7,632     |  | 3,009,160 | 69,449,547 | 94,008,682 | 24,559,134            | -                  | 24,559,134 | 7,405,543    | 6,462        | (387,278) | (14,416,097) | (11,315,583) | 3,100,513             | 3,100,513          | (953,092) | (1,170)      |

| Sherco2 | MR      |           |            |                       |              |           |  | ECON    |           |            |                       |                    |           |              | ECON less MR |          |             |             |                       |                    |           |              |
|---------|---------|-----------|------------|-----------------------|--------------|-----------|--|---------|-----------|------------|-----------------------|--------------------|-----------|--------------|--------------|----------|-------------|-------------|-----------------------|--------------------|-----------|--------------|
|         | MWh     | Gen Cost  | Revenue    | Profit (+) / Loss (-) | CO2 (000 lb) | run hours |  | MWh     | Gen Cost  | Revenue    | Profit (+) / Loss (-) | P/L with Estimated |           | CO2 (000 lb) | run hours    | MWh      | Gen Cost    | Revenue     | Profit (+) / Loss (-) | P/L with Estimated |           |              |
|         |         |           |            |                       |              |           |  |         |           |            |                       | Estimated MWP      | MWP       |              |              |          |             |             |                       | MWP                | MWP       | CO2 (000 lb) |
| Jan-23  | 366,813 | 9,558,109 | 11,155,233 | 1,597,123             | 901,625      | 744       |  | 366,813 | 9,558,109 | 11,155,233 | 1,597,123             | -                  | 1,597,123 | 901,625      | 744          | -        | -           | (0)         | -                     | -                  | -         | -            |
| Feb-23  | 229,483 | 6,201,010 | 5,052,850  | (1,148,160)           | 564,068      | 672       |  | 164,620 | 4,619,968 | 3,946,876  | (673,092)             | -                  | (673,092) | 404,636      | 450          | (64,863) | (1,581,042) | (1,105,974) | 475,068               | 475,068            | (159,432) | (222)        |
| Mar-23  | 170,044 | 4,775,935 | 4,285,771  | (490,164)             | 417,968      | 481       |  | 103,909 | 2,956,726 | 2,724,463  | (232,263)             | -                  | (232,263) | 255,408      | 262          | (66,135) | (1,819,209) | (1,561,308) | 257,901               | 257,901            | (162,560) | (219)        |
| Apr-23  | 104,194 | 2,813,107 | 2,334,122  | (478,985)             | 256,108      | 288       |  | 94,855  | 2,557,493 | 2,127,632  | (429,861)             | -                  | (429,861) | 233,154      | 260          | (9,339)  | (255,614)   | (206,490)   | 49,124                | 49,124             | (22,955)  | (28)         |
| May-23  | -       | -         | -          | -                     | -            | -         |  | -       | -         | -          | -                     | -                  | -         | -            | -            | -        | -           | -           | -                     | -                  | -         | -            |
| Jun-23  | -       | -         | -          | -                     | -            | -         |  | -       | -         | -          | -                     | -                  | -         | -            | -            | -        | -           | -           | -                     | -                  | -         | -            |
| Jul-23  | 6,655   | 373,787   | 278,641    | (95,146)              | 16,358       | 12        |  | 6,655   | 373,787   | 278,641    | (95,146)              | -                  | (95,146)  | 16,358       | 12           | -        | -           | -           | -                     | -                  | -         | -            |
| Aug-23  | 121,870 | 1,632,328 | 4,543,703  | 2,911,376             | 299,556      | 216       |  | 121,870 | 1,632,328 | 4,543,703  | 2,911,376             | -                  | 2,911,376 | 299,556      | 216          | -        | -           | -           | -                     | -                  | -         | -            |
| Sep-23  | -       | -         | -          | -                     | -            | -         |  | -       | -         | -          | -                     | -                  | -         | -            | -            | -        | -           | -           | -                     | -                  | -         | -            |
| Oct-23  | 289     |           |            |                       |              |           |  |         |           |            |                       |                    |           |              |              |          |             |             |                       |                    |           |              |

| Unit Equivalent Forced Outage Rates (%) - 2023 | January                 | February | March | April | May | June | July | August | September | October | November | December | 2022 Total |
|------------------------------------------------|-------------------------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|------------|
|                                                | [PROTECTED DATA BEGINS] |          |       |       |     |      |      |        |           |         |          |          |            |
| King                                           |                         |          |       |       |     |      |      |        |           |         |          |          |            |
| Monticello                                     |                         |          |       |       |     |      |      |        |           |         |          |          |            |
| Prairie Island 1                               |                         |          |       |       |     |      |      |        |           |         |          |          |            |
| Prairie Island 2                               |                         |          |       |       |     |      |      |        |           |         |          |          |            |
| Sherco 1                                       |                         |          |       |       |     |      |      |        |           |         |          |          |            |
| Sherco 2                                       |                         |          |       |       |     |      |      |        |           |         |          |          |            |
| Sherco 3                                       |                         |          |       |       |     |      |      |        |           |         |          |          |            |

PROTECTED DATA ENDS]

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Docket No. E999/CI-19-704  
2023 Annual Report  
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**Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - 2023 Total**

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid |                        |
| Jan-21           |               |          | 415,276.96                | 12,790,075.17           | 55,813.10       | 2,807,900.43            | \$ 15,597,975.60       |
| Feb-21           |               |          | 299,731.39                | 9,077,653.32            | 33,081.74       | 1,494,249.98            | \$ 10,571,903.30       |
| Mar-21           |               |          | 454,702.83                | 13,823,194.08           | 102,918.72      | 4,570,158.12            | \$ 18,393,352.20       |
| Apr-21           |               |          | 452,040.18                | 13,764,354.19           | 95,559.76       | 4,295,598.08            | \$ 18,059,952.27       |
| May-21           |               |          | 378,818.38                | 11,076,185.38           | 83,722.64       | 3,810,012.94            | \$ 14,886,198.32       |
| Jun-21           |               |          | 279,425.87                | 8,220,002.13            | 53,729.94       | 2,451,113.61            | \$ 10,671,115.74       |
| Jul-21           |               |          | 254,534.12                | 6,964,756.60            | 19,170.23       | 842,853.61              | \$ 7,807,610.21        |
| Aug-21           |               |          | 334,103.43                | 9,296,401.87            | 45,423.20       | 2,027,854.35            | \$ 11,324,256.22       |
| Sep-21           |               |          | 365,006.51                | 10,674,869.41           | 90,261.00       | 4,036,330.17            | \$ 14,711,199.58       |
| Oct-21           |               |          | 374,769.54                | 10,876,269.01           | 127,250.80      | 5,717,621.97            | \$ 16,593,890.98       |
| Nov-21           |               |          | 475,572.96                | 14,208,437.64           | 117,907.39      | 5,371,503.97            | \$ 19,579,941.61       |
| Dec-21           |               |          | 477,025.60                | 15,228,791.71           | 102,492.38      | 4,738,764.29            | \$ 19,967,556.00       |
| Total-21         |               |          | 4,561,007.76              | \$ 136,000,990.51       | 927,330.92      | \$ 42,163,961.52        | \$ 178,164,952.03      |
| Jan-22           |               |          | 486,114.99                | 15,421,309.72           | 133,508.58      | 6,145,798.49            | \$ 21,567,108.21       |
| Feb-22           |               |          | 502,705.35                | 14,769,300.19           | 108,559.97      | 4,988,995.72            | \$ 19,758,295.91       |
| Mar-22           |               |          | 514,652.57                | 15,019,353.70           | 92,798.08       | 4,318,981.66            | \$ 19,338,335.36       |
| Apr-22           |               |          | 530,699.02                | 15,996,139.35           | 214,574.54      | 9,782,194.55            | \$ 25,778,333.90       |
| May-22           |               |          | 366,916.47                | 11,262,896.97           | 109,890.35      | 5,166,458.68            | \$ 16,429,355.65       |
| Jun-22           |               |          | 350,175.92                | 10,518,548.04           | 63,910.23       | 3,115,800.38            | \$ 13,583,670.96       |
| Jul-22           |               |          | 301,204.95                | 8,932,747.36            | 33,917.25       | 1,645,347.40            | \$ 10,529,413.05       |
| Aug-22           |               |          | 313,056.66                | 9,541,612.85            | 17,553.49       | 841,351.23              | \$ 10,382,964.08       |
| Sep-22           |               |          | 363,404.50                | 11,401,827.49           | 58,496.79       | 2,698,650.21            | \$ 14,100,477.70       |
| Oct-22           |               |          | 456,771.15                | 13,490,974.69           | 89,873.45       | 4,187,674.83            | \$ 17,678,649.52       |
| Nov-22           |               |          | 520,187.11                | 15,784,594.96           | 99,216.95       | 4,491,208.90            | \$ 20,275,803.86       |
| Dec-22           |               |          | 429,825.87                | 13,875,252.48           | 47,946.35       | 2,182,658.21            | \$ 16,057,910.69       |
| Total-22         |               |          | 5,135,714.56              | \$ 156,014,557.80       | 1,070,246.02    | \$ 49,565,120.26        | \$ 205,480,318.89      |
| Jan-23           |               |          | 393,539.81                | 11,685,951.91           | 31,307.96       | 1,193,237.63            | \$ 12,879,189.54       |
| Feb-23           |               |          | 457,372.21                | 12,714,269.78           | 105,822.35      | 4,515,463.23            | \$ 17,229,733.01       |
| Mar-23           |               |          | 401,518.34                | 11,177,949.13           | 126,969.66      | 5,145,929.23            | \$ 16,323,878.36       |
| Apr-23           |               |          | 401,450.67                | 11,239,143.01           | 233,339.64      | 8,885,901.35            | \$ 20,125,044.36       |
| May-23           |               |          | 356,283.30                | 10,473,135.98           | 107,749.67      | 4,332,169.82            | \$ 14,805,305.80       |
| Jun-23           |               |          | 229,902.24                | 6,547,246.80            | 25,986.97       | 1,131,588.32            | \$ 7,678,835.12        |
| Jul-23           |               |          | 227,960.97                | 5,997,173.58            | 14,721.14       | 620,226.20              | \$ 6,617,399.78        |
| Aug-23           |               |          | 301,707.75                | 8,590,910.10            | 40,692.28       | 1,443,504.63            | \$ 10,034,414.73       |
| Sep-23           |               |          | 292,808.25                | 8,774,907.11            | 49,521.10       | 1,774,220.77            | \$ 10,549,127.88       |
| Oct-23           |               |          | 349,930.24                | 10,155,505.00           | 157,120.66      | 6,385,763.52            | \$ 16,541,268.52       |
| Nov-23           |               |          | 406,071.27                | 11,712,085.22           | 141,210.53      | 5,696,922.71            | \$ 17,409,007.93       |
| Dec-23           |               |          | 423,291.87                | 12,257,537.96           | 72,952.92       | 2,819,767.57            | \$ 15,077,305.53       |
| Total-23         |               |          | 4,241,836.91              | \$ 121,325,815.58       | 1,107,394.86    | \$ 43,944,694.98        | \$ 165,270,510.56      |

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Docket No. E999/CI-19-704  
2023 Annual Report  
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**Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Curtailment Reason Code 3 (MISO)**

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid |                        |
| Jan-21           |               |          | 286,239.78                | 8,608,971.51            | 55,813.10       | 2,807,900.43            | \$ 11,416,871.94       |
| Feb-21           |               |          | 207,036.82                | 5,238,392.38            | 33,081.74       | 1,494,249.98            | \$ 6,732,642.36        |
| Mar-21           |               |          | 313,731.84                | 7,958,889.42            | 102,918.72      | 4,570,158.12            | \$ 12,529,047.54       |
| Apr-21           |               |          | 359,879.41                | 10,295,738.72           | 95,559.76       | 4,295,598.08            | \$ 14,591,336.80       |
| May-21           |               |          | 335,682.76                | 9,476,493.54            | 83,722.64       | 3,810,012.94            | \$ 13,286,506.48       |
| Jun-21           |               |          | 244,634.08                | 6,801,152.64            | 53,729.94       | 2,451,113.61            | \$ 9,252,266.25        |
| Jul-21           |               |          | 188,634.61                | 4,407,043.28            | 19,170.23       | 842,853.61              | \$ 5,249,896.89        |
| Aug-21           |               |          | 279,344.49                | 7,183,597.10            | 45,423.20       | 2,027,854.35            | \$ 9,211,451.45        |
| Sep-21           |               |          | 317,149.99                | 8,632,740.85            | 90,261.00       | 4,036,330.17            | \$ 12,669,071.02       |
| Oct-21           |               |          | 322,379.24                | 8,637,684.25            | 127,250.80      | 5,717,621.97            | \$ 14,355,306.22       |
| Nov-21           |               |          | 409,323.89                | 11,381,625.18           | 117,907.39      | 5,371,503.97            | \$ 16,753,129.15       |
| Dec-21           |               |          | 413,313.74                | 12,568,403.16           | 102,492.38      | 4,738,764.29            | \$ 17,307,167.45       |
| Total-21         |               |          | 3,677,350.63              | \$ 101,190,732.03       | 927,330.92      | \$ 42,163,961.52        | \$ 143,354,693.55      |
| Jan-22           |               |          | 421,262.70                | 12,660,937.24           | 133,508.58      | 6,145,798.49            | \$ 18,806,735.73       |
| Feb-22           |               |          | 444,805.98                | 12,491,211.87           | 108,559.97      | 4,988,995.72            | \$ 17,480,207.59       |
| Mar-22           |               |          | 449,872.63                | 12,203,323.15           | 92,798.08       | 4,318,981.66            | \$ 16,522,304.81       |
| Apr-22           |               |          | 449,668.29                | 12,480,199.83           | 214,574.54      | 9,782,194.55            | \$ 22,262,394.38       |
| May-22           |               |          | 331,572.70                | 9,590,629.65            | 109,890.35      | 5,166,458.68            | \$ 14,757,088.33       |
| Jun-22           |               |          | 325,296.09                | 9,173,049.08            | 63,910.23       | 3,115,800.38            | \$ 12,288,849.46       |
| Jul-22           |               |          | 281,795.31                | 7,914,911.18            | 33,917.25       | 1,645,347.40            | \$ 9,560,258.58        |
| Aug-22           |               |          | 294,801.09                | 8,576,613.16            | 17,553.49       | 841,351.23              | \$ 9,417,964.39        |
| Sep-22           |               |          | 330,882.88                | 9,722,738.22            | 58,496.79       | 2,698,650.21            | \$ 12,421,388.43       |
| Oct-22           |               |          | 422,570.65                | 11,865,164.82           | 89,873.45       | 4,187,674.83            | \$ 16,052,839.65       |
| Nov-22           |               |          | 403,573.57                | 10,362,753.12           | 99,216.95       | 4,491,208.90            | \$ 14,853,962.02       |
| Dec-22           |               |          | 398,971.69                | 12,150,842.70           | 47,946.35       | 2,182,658.21            | \$ 14,333,500.91       |
| Total-22         |               |          | 4,555,073.57              | \$ 129,192,374.02       | 1,070,246.02    | \$ 49,565,120.26        | \$ 178,757,494.28      |
| Jan-23           |               |          | 300,505.52                | 7,621,749.84            | 31,307.96       | 1,193,237.63            | \$ 8,814,987.47        |
| Feb-23           |               |          | 422,223.84                | 10,826,162.18           | 105,822.35      | 4,515,463.23            | \$ 15,341,625.41       |
| Mar-23           |               |          | 369,946.99                | 9,401,623.12            | 126,969.66      | 5,145,929.23            | \$ 14,547,552.35       |
| Apr-23           |               |          | 363,859.87                | 9,149,165.33            | 233,339.64      | 8,885,901.35            | \$ 18,035,066.68       |
| May-23           |               |          | 307,407.89                | 8,291,640.27            | 107,749.67      | 4,332,169.82            | \$ 12,623,810.09       |
| Jun-23           |               |          | 205,105.68                | 5,435,189.30            | 25,986.97       | 1,131,588.32            | \$ 6,566,777.62        |
| Jul-23           |               |          | 178,833.06                | 4,648,049.48            | 14,721.14       | 620,226.20              | \$ 5,268,275.68        |
| Aug-23           |               |          | 268,723.55                | 7,159,598.34            | 40,692.28       | 1,443,504.63            | \$ 8,603,102.97        |
| Sep-23           |               |          | 251,765.26                | 6,941,821.07            | 49,521.10       | 1,774,220.77            | \$ 8,716,041.84        |
| Oct-23           |               |          | 321,211.47                | 8,591,181.45            | 157,120.66      | 6,385,763.52            | \$ 14,976,944.97       |
| Nov-23           |               |          | 374,994.07                | 10,034,452.42           | 141,210.53      | 5,696,922.71            | \$ 15,731,375.13       |
| Dec-23           |               |          | 351,691.40                | 10,153,037.71           | 72,952.92       | 2,819,767.57            | \$ 12,972,805.28       |
| Total-23         |               |          | 3,716,268.59              | \$ 98,253,670.51        | 1,107,394.86    | \$ 43,944,694.98        | \$ 142,198,365.49      |

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Lake Benton I

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Northern Alternative Energy (NAE)

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Velva

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Fenton (EnXco)

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - MinnDakota (Formerly Ivanhoe)

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Lincoln Heights Wind Holdings North\*

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

\*Effective 7/1/16 Norgaard North changed name to Lincoln Heights Wind Holdings North LLC.

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Lincoln Heights Wind Holdings South\*

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

\*Effective 7/1/16 Norgaard North changed name to Lincoln Heights Wind Holdings South LLC. [PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - JJN Windfarm, LLC.

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Ulik

[PROTECTED DATA BEGINS

| Production<br>Month | Date Paid        |             | Wind Production Delivered |                               | Lost Production |                               |                 | Total<br>Xcel Energy<br>Paid |
|---------------------|------------------|-------------|---------------------------|-------------------------------|-----------------|-------------------------------|-----------------|------------------------------|
|                     | Delivered<br>MWh | Lost<br>MWh | MWh<br>Delivered          | Amount<br>Xcel Energy<br>Paid | Lost MWh        | Amount<br>Xcel Energy<br>Paid | Reason<br>Codes |                              |
| Jan-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Feb-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Mar-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Apr-21              |                  |             |                           |                               |                 |                               |                 |                              |
| May-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Jun-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Jul-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Aug-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Sep-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Oct-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Nov-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Dec-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Total-21            |                  |             |                           |                               |                 |                               |                 |                              |
| Jan-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Feb-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Mar-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Apr-22              |                  |             |                           |                               |                 |                               |                 |                              |
| May-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Jun-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Jul-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Aug-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Sep-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Oct-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Nov-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Dec-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Total-22            |                  |             |                           |                               |                 |                               |                 |                              |
| Jan-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Feb-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Mar-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Apr-23              |                  |             |                           |                               |                 |                               |                 |                              |
| May-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Jun-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Jul-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Aug-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Sep-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Oct-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Nov-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Dec-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Total-23            |                  |             |                           |                               |                 |                               |                 |                              |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Ewington

[PROTECTED DATA BEGINS

| Production<br>Month | Date Paid        |             | Wind Production Delivered |                               | Lost Production |                               |                 | Total<br>Xcel Energy<br>Paid |
|---------------------|------------------|-------------|---------------------------|-------------------------------|-----------------|-------------------------------|-----------------|------------------------------|
|                     | Delivered<br>MWh | Lost<br>MWh | MWh<br>Delivered          | Amount<br>Xcel Energy<br>Paid | Lost MWh        | Amount<br>Xcel Energy<br>Paid | Reason<br>Codes |                              |
| Jan-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Feb-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Mar-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Apr-21              |                  |             |                           |                               |                 |                               |                 |                              |
| May-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Jun-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Jul-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Aug-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Sep-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Oct-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Nov-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Dec-21              |                  |             |                           |                               |                 |                               |                 |                              |
| Total-21            |                  |             |                           |                               |                 |                               |                 |                              |
| Jan-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Feb-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Mar-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Apr-22              |                  |             |                           |                               |                 |                               |                 |                              |
| May-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Jun-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Jul-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Aug-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Sep-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Oct-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Nov-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Dec-22              |                  |             |                           |                               |                 |                               |                 |                              |
| Total-22            |                  |             |                           |                               |                 |                               |                 |                              |
| Jan-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Feb-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Mar-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Apr-23              |                  |             |                           |                               |                 |                               |                 |                              |
| May-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Jun-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Jul-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Aug-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Sep-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Oct-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Nov-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Dec-23              |                  |             |                           |                               |                 |                               |                 |                              |
| Total-23            |                  |             |                           |                               |                 |                               |                 |                              |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Moraine II Wind LLC

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Prairie Rose

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Zephyr Wind LLC

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Big Blue Wind Farm

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Valley View Wind

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Ridgewind Power Partners LLC

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Grant County Wind LLC

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Adams Wind Generations

[PROTECTED DATA BEGINS]

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Odell

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Woodstock Hills

[PROTECTED DATA BEGINS]

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Cisco

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Crowned Ridge

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Glen Ullin

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

Northern States Power Company  
Electric Utility - State of Minnesota  
Wind Curtailment Summary Report - Dakota Range III

[PROTECTED DATA BEGINS

| Production Month | Date Paid     |          | Wind Production Delivered |                         | Lost Production |                         |              | Total Xcel Energy Paid |
|------------------|---------------|----------|---------------------------|-------------------------|-----------------|-------------------------|--------------|------------------------|
|                  | Delivered MWh | Lost MWh | MWh Delivered             | Amount Xcel Energy Paid | Lost MWh        | Amount Xcel Energy Paid | Reason Codes |                        |
| Jan-21           |               |          |                           |                         |                 |                         |              |                        |
| Feb-21           |               |          |                           |                         |                 |                         |              |                        |
| Mar-21           |               |          |                           |                         |                 |                         |              |                        |
| Apr-21           |               |          |                           |                         |                 |                         |              |                        |
| May-21           |               |          |                           |                         |                 |                         |              |                        |
| Jun-21           |               |          |                           |                         |                 |                         |              |                        |
| Jul-21           |               |          |                           |                         |                 |                         |              |                        |
| Aug-21           |               |          |                           |                         |                 |                         |              |                        |
| Sep-21           |               |          |                           |                         |                 |                         |              |                        |
| Oct-21           |               |          |                           |                         |                 |                         |              |                        |
| Nov-21           |               |          |                           |                         |                 |                         |              |                        |
| Dec-21           |               |          |                           |                         |                 |                         |              |                        |
| Total-21         |               |          |                           |                         |                 |                         |              |                        |
| Jan-22           |               |          |                           |                         |                 |                         |              |                        |
| Feb-22           |               |          |                           |                         |                 |                         |              |                        |
| Mar-22           |               |          |                           |                         |                 |                         |              |                        |
| Apr-22           |               |          |                           |                         |                 |                         |              |                        |
| May-22           |               |          |                           |                         |                 |                         |              |                        |
| Jun-22           |               |          |                           |                         |                 |                         |              |                        |
| Jul-22           |               |          |                           |                         |                 |                         |              |                        |
| Aug-22           |               |          |                           |                         |                 |                         |              |                        |
| Sep-22           |               |          |                           |                         |                 |                         |              |                        |
| Oct-22           |               |          |                           |                         |                 |                         |              |                        |
| Nov-22           |               |          |                           |                         |                 |                         |              |                        |
| Dec-22           |               |          |                           |                         |                 |                         |              |                        |
| Total-22         |               |          |                           |                         |                 |                         |              |                        |
| Jan-23           |               |          |                           |                         |                 |                         |              |                        |
| Feb-23           |               |          |                           |                         |                 |                         |              |                        |
| Mar-23           |               |          |                           |                         |                 |                         |              |                        |
| Apr-23           |               |          |                           |                         |                 |                         |              |                        |
| May-23           |               |          |                           |                         |                 |                         |              |                        |
| Jun-23           |               |          |                           |                         |                 |                         |              |                        |
| Jul-23           |               |          |                           |                         |                 |                         |              |                        |
| Aug-23           |               |          |                           |                         |                 |                         |              |                        |
| Sep-23           |               |          |                           |                         |                 |                         |              |                        |
| Oct-23           |               |          |                           |                         |                 |                         |              |                        |
| Nov-23           |               |          |                           |                         |                 |                         |              |                        |
| Dec-23           |               |          |                           |                         |                 |                         |              |                        |
| Total-23         |               |          |                           |                         |                 |                         |              |                        |

PROTECTED DATA ENDS]

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

Docket No. E999/CI-19-704  
2023 Annual Report  
Attachment F - Page 27 of 27

**Wind Curtailment Summary Report - Company Owned Facilities**  
**2023 Reporting Period**

| Project                                      | MWh Curtailed |          |        |        |        |       |       |        |           |         |          |          |            |
|----------------------------------------------|---------------|----------|--------|--------|--------|-------|-------|--------|-----------|---------|----------|----------|------------|
|                                              | January       | February | March  | April  | May    | June  | July  | August | September | October | November | December | 2023 Total |
| Blazing Star 1                               | 913           | 1,758    | 1,207  | 1,394  | 203    | 174   | 174   | 102    | 164       | 327     | 416      | 657      | 7,488      |
| Blazing Star 2                               | 575           | 54       | 338    | 1,116  | 226    | 204   | 173   | 118    | 151       | 294     | 458      | 550      | 4,259      |
| Border                                       | 0             | 1        | 1      | 305    | 218    | 76    | 138   | 141    | 71        | 134     | 153      | 238      | 1,476      |
| Lake Benton II (Buffalo Ridge / Chanarambie) | 1,805         | 2,017    | 8,904  | 1,364  | 19     | 9     | 63    | 525    | 47        | 115     | 92       | 73       | 15,033     |
| Community Wind North                         | 3             | 0        | 2      | 14     | 0      | 2     | 1     | 0      | 0         | 29      | 37       | 20       | 107        |
| Courtenay                                    | 0             | 1        | 1      | 1      | 463    | 153   | 167   | 159    | 783       | 249     | 375      | 1,975    | 4,329      |
| Crowned Ridge II                             | 20            | 2,044    | 4,274  | 13,262 | 7,234  | 1,043 | 382   | 3,136  | 8,401     | 17,730  | 16,367   | 1,837    | 75,730     |
| Dakota Range 1&2                             | 3             | 4,297    | 3,206  | 2,224  | 11,262 | 1,047 | 2     | 734    | 3,043     | 3,933   | 10,570   | 675      | 40,996     |
| Foxtail                                      | 10,561        | 20,789   | 18,168 | 206    | 396    | 9     | 0     | 9      | 14        | 1,371   | 5,622    | 4,027    | 61,173     |
| Freeborn                                     | 52            | 1,085    | 507    | 1,829  | 226    | 0     | 0     | 44     | 2         | 216     | 545      | 2,007    | 6,513      |
| Grand Meadow                                 | 187           | 2,240    | 1,130  | 3,081  | 151    | 1     | 0     | 0      | 4         | 1,333   | 1,140    | 35       | 9,301      |
| Jeffers                                      | 0             | 0        | 5      | 41     | 8      | 1     | 0     | 8      | 65        | 84      | 94       | 25       | 331        |
| Mower County                                 | 0             | 0        | 0      | 2      | 0      | 449   | 442   | 607    | 29        | 32      | 29       | 50       | 1,640      |
| Noble                                        | 41            | 4,134    | 8,472  | 4,636  | 988    | 3,731 | 1,140 | 3,934  | 474       | 241     | 770      | 61       | 28,622     |
| Northern Wind                                |               |          | 5,393  | 888    | 506    | 1,010 | 1,286 | 2,739  | 349       | 231     | 467      | 302      | 13,171     |
| Pleasant Valley                              | 0             | 64       | 1,180  | 2,939  | 112    | 1     | 0     | 0      | 0         | 901     | 596      | 4        | 5,797      |
| Rock Aetna                                   |               |          | 623    | 90     | 103    | 133   | 267   | 435    | 36        | 21      | 51       | 8        | 1,768      |

## 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.

— 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. E999/CI-19-704  
E002/M-19-809**

Dated this 1<sup>st</sup> day of March 2024

/s/

---

Joshua DePauw  
Regulatory Administrator

| First Name     | Last Name          | Email                             | Company Name                       | Address                                                      | Delivery Method    | View Trade Secret | Service List Name      |
|----------------|--------------------|-----------------------------------|------------------------------------|--------------------------------------------------------------|--------------------|-------------------|------------------------|
| Generic Notice | Commerce Attorneys | commerce.attorneys@ag.state.mn.us | Office of the Attorney General-DOC | 445 Minnesota Street Suite 1400<br><br>St. Paul, MN 55101    | Electronic Service | Yes               | OFF_SL_19-704_Official |
| Hillary        | Creurer            | hcreurer@mnpower.com              | Minnesota Power                    | 30 W Superior St<br><br>Duluth, MN 55802                     | Electronic Service | No                | OFF_SL_19-704_Official |
| Sharon         | Ferguson           | sharon.ferguson@state.mn.us       | Department of Commerce             | 85 7th Place E Ste 280<br><br>Saint Paul, MN 551012198       | Electronic Service | No                | OFF_SL_19-704_Official |
| Bruce          | Gerhardson         | bgerhardson@otpc.com              | Otter Tail Power Company           | PO Box 496<br>215 S Cascade St<br>Fergus Falls, MN 565380496 | Electronic Service | No                | OFF_SL_19-704_Official |
| Allen          | Gleckner           | gleckner@fresh-energy.org         | Fresh Energy                       | 408 St. Peter Street<br>Ste 350<br>Saint Paul, MN 55102      | Electronic Service | Yes               | OFF_SL_19-704_Official |
| Kim            | Havey              | kim.havey@minneapolismn.gov       | City of Minneapolis                | 350 South 5th Street,<br>Suite 315M<br>Minneapolis, MN 55415 | Electronic Service | No                | OFF_SL_19-704_Official |
| Adam           | Heinen             | aheinen@dakotaelectric.com        | Dakota Electric Association        | 4300 220th St W<br><br>Farmington, MN 55024                  | Electronic Service | No                | OFF_SL_19-704_Official |
| Kristin        | Henry              | kristin.henry@sierraclub.org      | Sierra Club                        | 2101 Webster St Ste 1300<br><br>Oakland, CA 94612            | Electronic Service | No                | OFF_SL_19-704_Official |
| Holly          | Lahd               | holly.lahd@target.com             | Target Corporation                 | 33 South 6th St<br>CC-28662<br>Minneapolis, MN 55402         | Electronic Service | No                | OFF_SL_19-704_Official |
| Leann          | Oehlerking Boes    | lboes@mnpower.com                 | Minnesota Power                    | 30 W Superior St<br><br>Duluth, MN 55802                     | Electronic Service | No                | OFF_SL_19-704_Official |

| First Name     | Last Name                      | Email                                | Company Name                       | Address                                                                        | Delivery Method    | View Trade Secret | Service List Name      |
|----------------|--------------------------------|--------------------------------------|------------------------------------|--------------------------------------------------------------------------------|--------------------|-------------------|------------------------|
| Generic Notice | Residential Utilities Division | residential.utilities@ag.state.mn.us | Office of the Attorney General-RUD | 1400 BRM Tower<br>445 Minnesota St<br>St. Paul,<br>MN<br>551012131             | Electronic Service | Yes               | OFF_SL_19-704_Official |
| Isabel         | Ricker                         | ricker@fresh-energy.org              | Fresh Energy                       | 408 Saint Peter Street<br>Suite 220<br>Saint Paul,<br>MN<br>55102              | Electronic Service | Yes               | OFF_SL_19-704_Official |
| Christine      | Schwartz                       | Regulatory.records@xcelenergy.com    | Xcel Energy                        | 414 Nicollet Mall FL 7<br><br>Minneapolis,<br>MN<br>554011993                  | Electronic Service | No                | OFF_SL_19-704_Official |
| Will           | Seuffert                       | Will.Seuffert@state.mn.us            | Public Utilities Commission        | 121 7th PI E Ste 350<br><br>Saint Paul,<br>MN<br>55101                         | Electronic Service | Yes               | OFF_SL_19-704_Official |
| Shane          | Stennes                        | stennes@umn.edu                      | University of Minnesota            | 319 15th Avenue SE<br><br>Minneapolis,<br>MN<br>55455                          | Electronic Service | No                | OFF_SL_19-704_Official |
| Stuart         | Tommerdahl                     | stommerdahl@otpc.com                 | Otter Tail Power Company           | 215 S Cascade St<br>PO Box 496<br>Fergus Falls,<br>MN<br>56537                 | Electronic Service | No                | OFF_SL_19-704_Official |
| Brian          | Tulloh                         | btulloh@misoenergy.org               | MISO                               | 2985 Ames Crossing Rd<br><br>Eagan,<br>MN<br>55121-2498                        | Electronic Service | No                | OFF_SL_19-704_Official |
| Laurie         | Williams                       | laurie.williams@sierraclub.org       | Sierra Club                        | Environmental Law Program<br>1536 Wynkoop St Ste 200<br>Denver,<br>CO<br>80202 | Electronic Service | No                | OFF_SL_19-704_Official |

[illegible]

| 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<br><br>Saint Paul,<br>MN<br>551012198       | Electronic Service | No                | OFF_SL_19-809_Official List |
| Edward     | Garvey     | edward.garvey@AESLconsulting.com | AESL Consulting               | 32 Lawton St<br><br>Saint Paul,<br>MN<br>55102-2617                | Electronic Service | No                | OFF_SL_19-809_Official List |
| Edward     | Garvey     | garveyed@aol.com                 | Residence                     | 32 Lawton St<br><br>Saint Paul,<br>MN<br>55102                     | Electronic Service | No                | OFF_SL_19-809_Official List |
| Bruce      | Gerhardson | bgerhardson@otpc.com             | Otter Tail Power Company      | PO Box 496<br>215 S Cascade St<br>Fergus Falls,<br>MN<br>565380496 | Electronic Service | No                | OFF_SL_19-809_Official List |
| James      | Gignac     | jjgignac@ucsusa.org              | Union of Concerned Scientists | 1 N LaSalle St Ste 1904<br><br>Chicago,<br>IL<br>60602             | Electronic Service | No                | OFF_SL_19-809_Official List |
| Allen      | Gleckner   | gleckner@fresh-energy.org        | Fresh Energy                  | 408 St. Peter Street<br>Ste 350<br>Saint Paul,<br>MN<br>55102      | Electronic Service | No                | OFF_SL_19-809_Official List |
| Kim        | Havey      | kim.havey@minneapolismn.gov      | City of Minneapolis           | 350 South 5th Street,<br>Suite 315M<br>Minneapolis,<br>MN<br>55415 | Electronic Service | No                | OFF_SL_19-809_Official List |
| Adam       | Heinen     | aheinen@dakotaelectric.com       | Dakota Electric Association   | 4300 220th St W<br><br>Farmington,<br>MN<br>55024                  | Electronic Service | No                | OFF_SL_19-809_Official List |
| Michael    | Hoppe      | lu23@ibew23.org                  | Local Union 23, I.B.E.W.      | 445 Etna Street<br>Ste. 61<br>St. Paul,<br>MN<br>55106             | Electronic Service | No                | OFF_SL_19-809_Official List |
| Alan       | Jenkins    | aj@jenkinsatlaw.com              | Jenkins at Law                | 2950 Yellowtail Ave.<br><br>Marathon,<br>FL<br>33050               | Electronic Service | No                | OFF_SL_19-809_Official List |

| First Name | Last Name        | Email                          | Company Name                            | Address                                                                          | Delivery Method    | View Trade Secret | Service List Name              |
|------------|------------------|--------------------------------|-----------------------------------------|----------------------------------------------------------------------------------|--------------------|-------------------|--------------------------------|
| Richard    | Johnson          | Rick.Johnson@lawmoss.com       | Moss & Barnett                          | 150 S. 5th Street<br>Suite 1200<br>Minneapolis,<br>MN<br>55402                   | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Sarah      | Johnson Phillips | sarah.phillips@stoel.com       | Stoel Rives LLP                         | 33 South Sixth Street<br>Suite 4200<br>Minneapolis,<br>MN<br>55402               | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Peder      | Larson           | plarson@larkinhoffman.com      | Larkin Hoffman Daly &<br>Lindgren, Ltd. | 8300 Norman Center Drive<br>Suite 1000<br>Bloomington,<br>MN<br>55437            | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Ryan       | Long             | ryan.j.long@xcelenergy.com     | Xcel Energy                             | 414 Nicollet Mall<br>401 8th Floor<br>Minneapolis,<br>MN<br>55401                | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Kavita     | Maini            | kmairi@wi.rr.com               | KM Energy Consulting,<br>LLC            | 961 N Lost Woods Rd<br><br>Oconomowoc,<br>WI<br>53066                            | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Pam        | Marshall         | pam@energycents.org            | Energy CENTS Coalition                  | 823 E 7th St<br><br>St Paul,<br>MN<br>55106                                      | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Mary       | Martinka         | mary.a.martinka@xcelenergy.com | Xcel Energy Inc                         | 414 Nicollet Mall<br>7th Floor<br>Minneapolis,<br>MN<br>55401                    | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Joseph     | Meyer            | joseph.meyer@ag.state.mn.us    | Office of the Attorney<br>General-RUD   | Bremer Tower, Suite 1400<br>445 Minnesota Street<br>St Paul,<br>MN<br>55101-2131 | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Stacy      | Miller           | stacy.miller@minneapolismn.gov | City of Minneapolis                     | 350 S. 5th Street<br>Room M 301<br>Minneapolis,<br>MN<br>55415                   | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| David      | Moeller          | dmoeller@allete.com            | Minnesota Power                         | 30 W Superior St<br><br>Duluth,<br>MN<br>558022093                               | Electronic Service | No                | OFF_SL_19-809_Official<br>List |

| First Name     | Last Name                      | Email                                | Company Name                         | Address                                                             | Delivery Method    | View Trade Secret | Service List Name           |
|----------------|--------------------------------|--------------------------------------|--------------------------------------|---------------------------------------------------------------------|--------------------|-------------------|-----------------------------|
| Andrew         | Moratzka                       | andrew.moratzka@stoel.com            | Stoel Rives LLP                      | 33 South Sixth St Ste 4200<br><br>Minneapolis,<br>MN<br>55402       | Electronic Service | No                | OFF_SL_19-809_Official List |
| David          | Niles                          | david.niles@avantenergy.com          | Minnesota Municipal Power Agency     | 220 South Sixth Street<br>Suite 1300<br>Minneapolis,<br>MN<br>55402 | Electronic Service | No                | OFF_SL_19-809_Official List |
| Leann          | Oehlerking Boes                | lboes@mnpower.com                    | Minnesota Power                      | 30 W Superior St<br><br>Duluth,<br>MN<br>55802                      | Electronic Service | No                | OFF_SL_19-809_Official List |
| Carol A.       | Overland                       | overland@legalelectric.org           | Legalelectric - Overland Law Office  | 1110 West Avenue<br><br>Red Wing,<br>MN<br>55066                    | Electronic Service | No                | OFF_SL_19-809_Official List |
| Audrey         | Partridge                      | apartridge@mncee.org                 | Center for Energy and Environment    | 212 3rd Ave. N. Suite 560<br><br>Minneapolis,<br>MN<br>55401        | Electronic Service | No                | OFF_SL_19-809_Official List |
| Generic Notice | Residential Utilities Division | residential.utilities@ag.state.mn.us | Office of the Attorney General-RUD   | 1400 BRM Tower<br>445 Minnesota St<br>St. Paul,<br>MN<br>551012131  | Electronic Service | Yes               | OFF_SL_19-809_Official List |
| Kevin          | Reuther                        | kreuther@mncenter.org                | MN Center for Environmental Advocacy | 26 E Exchange St, Ste 206<br><br>St. Paul,<br>MN<br>551011667       | Electronic Service | No                | OFF_SL_19-809_Official List |
| Isabel         | Ricker                         | ricker@fresh-energy.org              | Fresh Energy                         | 408 Saint Peter Street<br>Suite 220<br>Saint Paul,<br>MN<br>55102   | Electronic Service | No                | OFF_SL_19-809_Official List |
| Amanda         | Rome                           | amanda.rome@xcelenergy.com           | Xcel Energy                          | 414 Nicollet Mall FL 5<br><br>Minneapolis,<br>MN<br>55401           | Electronic Service | No                | OFF_SL_19-809_Official List |
| Christine      | Schwartz                       | Regulatory.records@xcelenergy.com    | Xcel Energy                          | 414 Nicollet Mall FL 7<br><br>Minneapolis,<br>MN<br>554011993       | Electronic Service | No                | OFF_SL_19-809_Official List |

| First Name | Last Name      | Email                          | Company Name                   | Address                                                                           | Delivery Method    | View Trade Secret | Service List Name              |
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| Will       | Seuffert       | Will.Seuffert@state.mn.us      | Public Utilities Commission    | 121 7th Pl E Ste 350<br><br>Saint Paul,<br>MN<br>55101                            | Electronic Service | Yes               | OFF_SL_19-809_Official<br>List |
| Janet      | Shaddix Elling | jshaddix@janetshaddix.com      | Shaddix And Associates         | 7400 Lyndale Ave S Ste 190<br><br>Richfield,<br>MN<br>55423                       | Electronic Service | Yes               | OFF_SL_19-809_Official<br>List |
| Ken        | Smith          | ken.smith@districtenergy.com   | District Energy St. Paul Inc.  | 76 W Kellogg Blvd<br><br>St. Paul,<br>MN<br>55102                                 | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Byron E.   | Starns         | byron.starns@stinson.com       | STINSON LLP                    | 50 S 6th St Ste 2600<br><br>Minneapolis,<br>MN<br>55402                           | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| James M    | Strommen       | jstrommen@kennedy-graven.com   | Kennedy & Graven,<br>Chartered | 150 S 5th St Ste 700<br><br>Minneapolis,<br>MN<br>55402                           | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Eric       | Swanson        | eswanson@winthrop.com          | Winthrop & Weinstine           | 225 S 6th St Ste 3500<br>Capella Tower<br>Minneapolis,<br>MN<br>554024629         | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Stuart     | Tommerdahl     | stommerdahl@otpc.com           | Otter Tail Power Company       | 215 S Cascade St<br>PO Box 496<br>Fergus Falls,<br>MN<br>56537                    | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Brian      | Tulloh         | btulloh@misoenergy.org         | MISO                           | 2985 Ames Crossing Rd<br><br>Eagan,<br>MN<br>55121-2498                           | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Laurie     | Williams       | laurie.williams@sierraclub.org | Sierra Club                    | Environmental Law<br>Program<br>1536 Wynkoop St Ste 200<br>Denver,<br>CO<br>80202 | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
|            |                |                                |                                |                                                                                   |                    |                   |                                |

| First Name | Last Name | Email                 | Company Name           | Address                                                                  | Delivery Method    | View Trade Secret | Service List Name              |
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| Joseph     | Windler   | jwindler@winthrop.com | Winthrop & Weinstine   | 225 South Sixth Street,<br>Suite 3500<br><br>Minneapolis,<br>MN<br>55402 | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Kurt       | Zimmerman | kwz@ibew160.org       | Local Union #160, IBEW | 2909 Anthony Ln<br><br>St Anthony Village,<br>MN<br>55418-3238           | Electronic Service | No                | OFF_SL_19-809_Official<br>List |
| Patrick    | Zomer     | Pat.Zomer@lawmoss.com | Moss & Barnett PA      | 150 S 5th St #1200<br><br>Minneapolis,<br>MN<br>55402                    | Electronic Service | No                | OFF_SL_19-809_Official<br>List |