



May 2, 2022

VIA E-FILING

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101-2147

Re: **In the Matter of Minnesota Power's Petition for Approval of the Annual
Forecast of Automatic Adjustment Charges for the period of
January 2023 through December 2023
Docket No. E015/AA-22-TBD
Annual Filing**

Dear Mr. Seuffert:

Minnesota Power respectfully submits its Annual Forecasted Fuel and Purchased Energy rates for the calendar year 2023 to the Minnesota Public Utilities Commission, pursuant to the decisions rendered by the Commission in Docket No. E999/CI-03-802 and where applicable, in compliance with Minnesota Rules 7825.2800 to 7825.2840 governing Automatic Adjustment of Charges.

Please contact me at (218) 355-3455 or hcreurer@allte.com if you have any questions regarding this compliance filing. For all discovery related inquiries please email hcreurer@allte.com and discoverymanager@mnpower.com.

Kind Regards,

Hillary A. Creurer
Regulatory Compliance Administrator

HAC:th
Attach.

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

In the Matter of Minnesota Power's Petition for Approval
of the Annual Forecast of Automatic Adjustment Charges
for the period of January 2023 through December 2023

Docket No. E015/AA-22-XXX
**MINNESOTA POWER'S
ANNUAL FILING**

I. SUMMARY

Minnesota Power (or the "Company") hereby submits this Petition to the Minnesota Public Utilities Commission ("Commission") for approval of its Annual Forecasted Rates for it Rider for Fuel and Purchased Energy Charge for the calendar year 2023.

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

In the Matter of Minnesota Power's Petition for Approval
of the Annual Forecast of Automatic Adjustment Charges
for the period of January 2023 through December 2023

Docket No. E015/AA-22-XXX
**MINNESOTA POWER'S
ANNUAL FILING**

I. INTRODUCTION

Minnesota Power (or the "Company") hereby submits this Petition to the Minnesota Public Utilities Commission ("Commission") for approval of its Annual Forecast of Automatic Adjustment Charges for the period of January 2023 through December 2023.

II. GENERAL FILING INFORMATION

In accordance with Minn. Rule 7829.1300, subp. 3, and additional Commission Orders, Minnesota Power provides the following required information.

A. Name, Address and Telephone Number of Utility

Minnesota Power
30 West Superior Street
Duluth, MN 55802
(218) 722-2641

B. Name, Address and Telephone Number of Utility Attorney

Matthew Brodin,
Senior Attorney
Minnesota Power
30 West Superior Street
Duluth, MN 55802
(218) 355-3152
mbrodin@allete.com (email)

C. Date of Filing and Date Proposed Rates Take Effect

The date of this filing is May 2, 2022. Minnesota Power proposes the forecasted rates for the calendar year 2023 be effective on January 1, 2023.

D. Statute Controlling Schedule for Processing the Petition

No statute establishes a schedule for processing this filing. The applicable rules are Minn. Rule 7825.2800 through 7825.2840.

In the June 12, 2019 Order issued by the Minnesota Public Utilities Commission in Docket No. E999/CI-03-802 ("June 2019 Order")¹, the Commission approved variances to Minn. Rule 7825.2800 through 7825.2840, as well as a procedural schedule for the Petition.

E. Utility Employee Responsible for Filing

Hillary A. Creurer
Regulatory Compliance Administrator
Minnesota Power
30 West Superior Street
Duluth, MN 55802
(218) 355-3455
hcreurer@allete.com (email)

F. Official Service List

Pursuant to Minn. Rule 7829.0700, Minnesota Power respectfully requests the following persons to be included on the Commission's official service list for this proceeding:

Matthew Brodin
Senior Attorney
Minnesota Power
30 West Superior Street
Duluth, MN 55802
(218) 355-3152
mbrodin@allete.com

Hillary A. Creurer
Regulatory Compliance Administrator
Minnesota Power
30 West Superior Street
Duluth, MN 55802
(218) 355-3455
hcreurer@allete.com

¹ In the Matter of an Investigation into the Appropriateness of Continuing to Permit Electric Energy Cost Adjustments, Docket No. E999/CI-03-802.

G. Service on Other Parties

Minnesota Power has electronically filed this report with the Minnesota Public Utilities Commission, and copies of the Notice of Report Availability have been served on the parties on the attached service lists.

H. Filing Summary

Pursuant to Minn. Rule 7829.1300, subp. 1, a one-paragraph summary of this filing accompanies this Report.

III. TRADE SECRET JUSTIFICATION

Various attachments to this filing contain information that Minnesota Power considers trade secret. The Company believes this filing comports with the Commission's Notice relating to Revised Procedures for handling Trade Secret and Privileged Data, pursuant to Minn. Rule 7829.0500. As required by the revised procedures, a statement providing the justification for excising the trade secret data is included.

IV. DESCRIPTION AND PURPOSE OF FILING

This filing contains information provided in compliance with Minn. Rules 7825.2800 through 7825.2840 and Order Point 7 of the June 2019 Order. The Commission's June 2019 Order approved a variance to Minn. Rules 7825.2800 through 7825.2840 and reporting requirements for the annual forecast and true-up filings.

In the June 2019 Order in Docket No. E999/CI-03-802, Order Points 1 and 7 state the following:

Order Point 1

"The Commission approves variances to Minn. R. 7825.2800, .2810, .2820, .2830, and .2840 in accordance with the language stated above in Section II."

Order Point 7

“The Commission adopts the reporting changes outlined in Attachments 1, 2, and 3 of the joint comments with the following reporting requirement added to the annual true-up filing: each Electric Utility shall provide a complete analysis and discussion of the consequences of self-commitment and self-scheduling of their generators, including the annual difference between production costs and corresponding prevailing market prices.”

Then as part of the November 13, 2019 Order in Docket No. E999/AA-18-373, Order Point 9 states:

“The Commission will open an investigation in a separate docket and require Minnesota Power, Otter Tail, and Xcel to report their future self-commitment and self-scheduling analyses using a consistent methodology by including fuel cost and variable O&M costs, matching the offer curve submitted to MISO energy markets.”

Minnesota Power’s annual compliance report regarding self-commitment and self-scheduling of large base load generators was filed on March 1, 2022 in Docket No. E999/CI-19-704.

Rule 7825.2800 Annual Reports: Policies and Action

Attachment 2 includes information regarding Minnesota Power’s fuel and energy source procurement and energy dispatching policies.

Rule 7825.2810 Annual Report: Automatic Adjustment Charges

Attachment 1 includes Minnesota Power’s forecasted to actual comparison of Automatic Adjustment Charges for the period of January 2021 through December 2021.

On December 23, 2019 in Docket Nos. E015/MR-19-443 and E015/GR-19-442 the Commission approved the Company’s proposed changes to the base cost of energy. The Company moved all fuel related costs to the Fuel and Purchased Energy (“FPE”) Charge, with zero cost of fuel in the base energy rate, effective January 1, 2020.

Rule 7825.2820 Annual Auditor’s Report

The Independent Auditor’s Report is filed annually on March 1 in accordance with the Commissions June 2019 Order.

Rule 7825.2830 Annual Five-Year Projection

Attachment 6 includes Minnesota Power's annual five-year projection.

Rule 7825.2840 Annual Notice of Reports Availability

Attachment 7 includes the service lists of the interveners in the previous two general rate cases.

Other Reports and Information included in the 2021 FAC Forecast

- Attachment No. 3 – Monthly MISO Day 2 Charges and Allocation
- Attachment No. 4 – Auction Revenue Rights Process and Information
- Attachment No. 5 – Plant Outage Reporting

V. 2022 FORECAST FUEL AND PURCHASED ENERGY COSTS

Tables 1 through 3 below summarize the overall forecasted fuel and purchase power costs for 2023. For additional detail see Attachment 1 which includes the costs and assumptions.

Table 1: Forecasted Fuel Cost Summary

Company's Generating Stations	\$148,359,504
Plus: Purchased Energy	\$224,480,219
Plus: MISO Charges	\$48,576,079
Less: MISO Schedules 16, 17, & 24	\$(289,240)
Less: Cost Recovered through Inter system Sales	\$154,774,719
Less: Costs Related to Solar	\$2,522,315
Plus: Time of Generation and Solar Energy Adjustment	\$1,344,170
Total Cost of Fuel	\$265,752,178
Total Fuel Clause Sales (MWh)	8,978.1
Average Cost of Fuel (¢/kWh)	2.961

Table 2: Forecasted Sales (MWh)

Total Sales of Electricity	13,594,358
Residential	1,036,816
Commercial	1,195,779
LP Taconite	4,231,901
LP Paper and Pulp	600,104
LP Pipeline	309,481
Other Misc.	334,745
Municipals	1,326,588

Inter System Sales	4,558,944
Less: Inter System Sales	4,558,944
Customer Intersystem Sales	844,414
Market Sales	3,712,057
Station Service	2,473
Sales due to Retail Loss of Load	0
Less: Solar Generation & Purchases	57,323
Total Fuel Clause Sales	8,978,091

Table 3 below shows Minnesota Power's proposed monthly forecasted rates to be implemented January 1, 2023.

Table 3: Proposed Monthly FPE Forecasted Rates (¢/kWh)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.831	2.762	3.171	3.060	2.808	3.116	3.203	3.110	3.003	2.879	2.728	2.858

Minnesota Power will update the Company's web site with the full year of monthly fuel cost charges by December 1, 2022, or upon issuance of the Commission's Order. The rates will be presented at the following link:

<https://www.mnpower.com/CustomerService/YourBill>

VI. OTHER ITEMS

Planning Resource Auction

On April 14, 2022, MISO published the 2022-2023 Planning Resource Auction results, which the capacity price for Local Resource Zone 1 cleared higher than anticipated and significantly higher than past Planning Resource Auctions. Minnesota Power is evaluating the holistic impact to the company and customers of the planning resource auction results. Due to the timing of when the results were released and on-going evaluation, Minnesota Power was not able to incorporate the the auction results into this filing.

Reagents

Minnesota Power uses reagents to reduce pollution from its power plants to comply with federal and state air quality regulations. Minn. Stat. § 216B.16, subd. 7 allows the

Commission to permit fuel clause recovery of prudent reagent costs, provided that these costs are not recovered elsewhere in rates.

Currently, Minnesota Power is not permitted to recover reagent costs through its Fuel Clause per Commission Order dated March 12, 2018, in Docket No. E015/GR-16-664. However, since the 2016 Rate Case the Fuel Clause mechanism has been reformed and the Company's dispatch strategy has moved to increasing reliance on economic dispatch, leading to greater variability in reagent costs. The higher market energy prices observed in 2021 and 2022 to date has caused greater than anticipated generation at Boswell, resulting in significantly more reagent use. At this time, Minnesota Power does not have an approved mechanism to recover the cost of higher reagent use, while the customers receive the benefits of lower cost energy from Boswell.

Minnesota Power plans to submit a Miscellaneous Docket in 2022 to petition the Commission to move these reagent costs out of Base Rates and into the Fuel Clause.

VII. CONCLUSION

Minnesota Power submits this annual forecast report pursuant to the Commission's rules regarding Automatic Adjustment of Charges and respectfully requests the Commission approve the FPE Forecasted Rates for January 1, 2023 through December 31, 2023.

Dated: May 2, 2022

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Hillary A. Creurer".

Hillary A. Creurer
Regulatory Compliance Administrator
Minnesota Power

**STATEMENT REGARDING JUSTIFICATION FOR EXCISING
TRADE SECRET INFORMATION**

Minnesota Power has excised material from the Annual Automatic Adjustment of Charges Report ("Report") because the format of the Report requires Minnesota Power to compile and provide information regarding its methods, techniques and process for obtaining and managing fuel supply resources for its generating facilities, including fuel supply, contract terms and conditions, as well as fuel cost projections. This is highly confidential information: Minnesota Power's competitors, as well as its potential suppliers, would gain a commercial advantage over Minnesota Power if this information was publicly available. As a result of public availability, Minnesota Power and its customers would suffer from corruption of Minnesota Power's negotiating position. Minnesota Power follows strict internal procedures to maintain the secrecy of this information in order to capitalize on economic value of the information to Minnesota Power.

Minnesota Power believes that this statement justifies why the information excised from the attached Report should remain a trade secret under Minn. Stat. §13.37. Minnesota Power respectfully requests the opportunity to provide additional justification in the event of a challenge to the trade secret designation provided herein.

**Forecast of Automatic Retail Fuel Adjustment Charges
January 1, 2022 through December 31, 2022**

Docket No. E,G999/AA-04-1279

Docket No. E999/CI-03-802

Minn. Rule 7825.2810

2023 FAC Forecast Assumptions

A. Model and Forward Energy Prices

RTSim Model:

- Minnesota Power uses the RTSim production cost model for budgeting and planning purposes. The RTSim model is a detailed hourly simulation that dispatches generation to meet customer load requirements, while simultaneously factoring in bilateral contracts and the energy market, and assigns the appropriate energy costs to customers. The inputs that drive the model include customer loads, forecasted forward energy prices, contract energy purchases and sales, and generation parameters (i.e. fuel costs, maintenance schedules, etc.) The model's output includes the energy and costs for thermal generation, hydro generation, wind generation, bilateral contracts, and MISO market purchases and sales.

Forward Energy Prices:

- For forward energy prices, Minnesota Power used the forward market energy price outlook. The 2023 energy price outlook is based on a 10-business day average of forward market energy price at close from January 24, 2022 through February 2, 2022. For 2023, the on-peak average was **[TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]** while the off-peak average was **[TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]**. The market prices are used in the model for generation dispatch and the MISO market purchase costs or MISO market sales revenues. The table below includes the average, on-peak and off-peak price for 2023 by month that was used in the FAC Forecast. Minnesota Power has experienced more volatile energy prices as the economy recovered from the economic impacts caused by COVID related shutdowns. These assumptions represent a snapshot in time and will likely change, potentially significantly, between when the forecast was created and when the FAC forecast period starts 11 months later.

2023 Forward Market Prices (\$/MWh)		
	On Peak	Off Peak
	[TRADE SECRET DATA BEGINS	
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
	TRADE SECRET DATA ENDS]	

B. Customer Sales

Residential:

- See the 2021 AFR in Docket No. E999/PR-21-11.
- The forecast of Residential class sales is primary driven by residential customer account growth (Regional housing starts), weather, and energy efficiency.

Commercial:

- See the 2021 AFR in Docket No. E999/PR-21-11.
- The primary drivers of Commercial energy sales are commercial customer account growth (Gross Metro Product), weather, regional employment and population, and conservation. The modeling also accounts for some irregular energy consumption behavior due to Covid19 restrictions in recent history. The econometric results are adjusted for the expected installation of new customer-owned generation.

Industrial Taconite:

- Operating at levels reflective of the historical average, adjusted for current U.S. steel mill operating levels.
- Routine maintenance incorporated based on historical trends and customer business plans, if known.
- Inter-System sales such as Incremental Production Service (“IPS”) Fixed and Variable Non-firm are based on contract terms, historical trends and customer business plans, if known.

Industrial Paper and Pulp:

- Operational customers reflective of 2019 operating levels.
- A new paper customer is expected to begin operations.
- Routine maintenance incorporated based on historical trends and customer business plans, if known.
- Inter-System sales such as IPS, Replacement Firm Power Service ("RFPS"), Economy, and Non-firm developed based on contract terms, historical trends and customer business plans, if known.

Industrial Pipelines:

- Reflect a 2019-2021 average with the exception of one pipeline customer adjusted for a known operations change.

Other Miscellaneous:

- See the 2021 AFR in Docket No. E999/PR-21-11.
- Other large industrial customers assumes a 3-year (2019-2021) historical average of annual sales to the customers. Adjustments are applied for any known or expected change in operation that would impact energy sales.

Municipals:

- Sales for 13 customers reflect new contracts with reduced firm demand and energy sales.
- Hibbing Public Utilities outlook reflects a new agreement that incorporates the city utilizing their own generation and market to serve their load removing their firm demand and energy sales.
- One customer reflects an increase in load relative to recent years due to change in pipeline pumping operations and restart of a large oil refinery.

Losses:

- Transmission losses are allocated to Firm Transmission service, Non-Firm Transmission, and Distribution-level service based on their projected energy requirements and expected losses at each level of service.
 - Total transmission losses allocated to FIRM transmission customers is about 217,000 MWh.
 - Total losses allocated to FIRM distribution customers = 240,000 MWh
(Transmission loss = 90,000) + (Distribution loss = 150,000)

C. Generation Costs

Boswell:

- 2022 year-end inventory fuel volume and total \$ as forecasted in February 2022 latest estimate provides January 1, 2023 beginning fuel inventory. Assumes [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] max delivered in 2022 vs. the [TRADE SECRET DATA BEGINS [REDACTED] [REDACTED] TRADE SECRET DATA ENDS] needed for target inventory.
- Fuel cost forecast provided is for MP share only (WPPI owns 12.5 percent of inventory per MP/WPPI Operating Agreement.)
- 2023 delivery volume is based upon maintaining [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] ton inventory target as approved by MP Fuel Strategy Group.
 - Rail transportation cost = actual 2023 BNSF contract with All-LF escalator.
 - Rail fuel surcharge based upon EIA diesel forecast.
 - Coal topper pricing escalated 2 percent from 2022.
 - Coal commodity cost = actual coal 2023 coal contracts.
 - Previous month's ending inventory (Total MMBtus and \$) + Current month coal deliveries (Total MMBtus and \$) = weighted average current month coal burn cost.
- Coal burn based upon generation formulated/provided by Minnesota Power Utility Planning.
- Outages as provided by Generation Operations.
- 2023 MT/WY coal blend ratios kept consistent with 2022 target [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] WY / [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] MT for BEC 3 and [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] for BEC 4.
- Natural gas costs based upon 2023 Henry Hub Forward Natural Gas Curve, from Gas Daily and includes pipeline tariff cost.

Hibbard:

- Biomass burn based upon generation formulated/provided by Minnesota Power Utility Planning.
- Biomass Pricing based upon 2023 forecasted forest residue pricing.
- Natural gas costs based upon 2023 Henry Hub Forward Natural Gas Curve, from Gas Daily, and includes City of Duluth Comfort Systems transportation charges.
- Also see Attachment 2 as support.

Laskin:

- Natural Gas burn based upon generation formulated/provided by Minnesota Power Utility Planning.
- Natural gas costs based 2023 Henry Hub Forward Natural Gas Curve, from Gas Daily, and pipeline transportation based upon actual supplier contract formula pricing.
- Also see Attachment 2 as support.

Wind:

- Minnesota Power used a third-party meteorological wind speed forecast to estimate wind farm energy production.
- Wind generation owned by Minnesota Power has a \$0 Fuel Cost.

Hydro:

- Minnesota Power used a third-party hydrological forecast to estimate the hydro generation levels.
- Hydro generation owned by Minnesota Power has a \$0 Fuel Cost.

D. Purchase Costs

Manitoba Hydro:

- Contract terms can be found in Docket No. E015/M-11-938.

Minnkota Power:

- Refer to Docket No. E015/AA-19-302 Attachment 1.2.1 for contract terms.

Purchase to serve Non-Firm Retail Customer:

- Based on customer's load - No purchase made so price has been estimated.

Oliver County 1:

- Contract Terms can be found in Docket No. E015/M-05-975.

Oliver County 2:

- Contract Terms can be found in Docket No. E015/M-07-216.

Wing River:

- Contract Terms can be found in Docket No. E015/M-07-537.

Nobles 2:

- Contract Terms can be found in Docket No. E015/M-18-545.

Square Butte:

- Contract Terms can be found in Docket No. E015/PA-09-526.

SES 20MW Solar:

- Contract terms can be found in Docket No. E015/M-20-828.
- Costs and generation will go to the SEA (Solar Energy Adjustment) - Attachment 1 (Solar Energy Adjustment).

Purchase to Serve Municipal Solar Energy:

- Purchase to procure solar energy for a municipal customer. Purchase is offset by the sale to the municipal customer on Attachment 1 (Inter-system Sales Forecast).

Market Purchase:

- Variable Purchase- Minnesota Power uses the RTSim production cost model to determine the volume and cost for MISO market purchases. When additional energy is needed to serve load or it is lower cost to purchase energy from the market than to generate energy from Minnesota Power's dispatchable fleet, the model will utilize the MISO market for purchases.

E. Inter-System Sales

IPS and RFPS:

- Based on contract terms, historical trends, and customer business plans, if known.

Economy and Non Firm:

- Based on contract terms, historical trends, and customer business plans, if known.

Municipal Incremental:

- Sales for 13 customers have new contracts with reduced firm demand and energy sales.
- Based on contract terms, historical trends, and customer business plans, if known.

Municipal Solar Energy:

- Sales side of the direct pass through of the “Purchase to Serve Municipal Solar Energy” listed on Attachment 1 (Purchase Costs Forecast).

Oconto:

- Refer to Docket No. E015/AA-19-302 Attachment 1.3.2 for contract.

Hibbing Public Utilities:

- Customer outlook reflects a new agreement that incorporates the city utilizing their own generation and market to serve their load removing their firm demand and energy sales.
- Based on contract terms.

Asset Based Sales (Non MISO):

- Minnesota Power uses the RTSim production cost model to determine when a sale is an asset based sale or liquidation sale.
- For 2023, no asset based bilateral sales to a counterparty have been forecasted.

Liquidated Sales (Non MISO):

- Minnesota Power uses the RTSim production cost model to determine when a sale is an asset based sale or liquidation sale.
- For 2023, no liquidation bilateral sales to a counterparty have been forecasted.

MISO Market Sales:

- Variable - Minnesota Power uses the RTSim production cost model to determine the volume and cost for MISO market sales. When excess energy is available and it's economical, the model will sell the excess energy into the MISO market.
- MISO Market Sales are either an asset based sale or liquidation sale.

Minnkota Power Liquidation:

- Refer to Docket No. E015/AA-19-302 Attachment 1.3.5 for contract.

Oliver County 1:

- Based off of an average of January through December 2021 Station Service.

Oliver County 2:

- Based off of an average of January through December 2021 Station Service.

WPPI Energy:

- Station Service is based off of January through December 2021 average per day multiplied by the 2023 Forecasted Scheduled and Forced Outages at Boswell 4. See Attachment 5 for outage assumptions.

MISO Costs:

- See Attachment 3 for MISO Costs breakdown and assumptions.

Asset Based Sales Margins:

- Minnesota Power uses the RTSim production cost model to determine when a sale is an asset based sale. The margins from these sales are included in the FAC Calculation (Attachment 1) per the Rate Case Resolution Docket Nos. E015/GR-19-442 and E015/M-20-429.
- The margin from the Municipal Incremental Sale is also included in the Asset Based Sales Margins.

FAC Calculation

A. Summary - Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	Jan 2023	Feb 2023	Mar 2023	Apr 2023	May 2023	Jun 2023	Jul 2023	Aug 2023	Sep 2023	Oct 2023	Nov 2023	Dec 2023	Total
1	Company's Generating Stations	\$15,527,931	\$13,739,609	\$14,215,930	\$10,328,326	\$12,506,545	\$11,387,824	\$12,491,781	\$12,334,510	\$11,256,774	\$8,820,082	\$12,178,960	\$13,571,235	\$148,359,504
	Thermal	\$15,527,931	\$13,739,609	\$14,215,930	\$10,328,326	\$12,506,545	\$11,387,824	\$12,491,781	\$12,334,510	\$11,256,774	\$8,820,082	\$12,178,960	\$13,571,235	\$148,359,504
	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$21,473,835	\$18,839,656	\$18,238,651	\$17,758,657	\$19,840,057	\$18,873,616	\$19,889,995	\$17,443,058	\$17,542,152	\$19,207,440	\$16,391,443	\$18,981,660	\$224,480,219
	Market	\$15,190,116	\$13,275,920	\$12,382,177	\$11,485,082	\$13,674,241	\$13,431,207	\$14,374,478	\$12,393,685	\$11,679,951	\$12,940,836	\$10,706,022	\$12,949,319	\$154,483,036
	Wind	\$2,936,361	\$2,425,285	\$2,783,696	\$2,835,653	\$2,768,992	\$2,132,920	\$1,874,777	\$1,871,069	\$2,452,304	\$2,822,303	\$2,818,623	\$2,706,977	\$30,428,960
	Solar	\$103,108	\$149,151	\$242,728	\$277,822	\$313,674	\$330,489	\$373,489	\$325,754	\$249,846	\$164,751	\$108,097	\$72,414	\$2,711,324
	Square Butte	\$3,244,250	\$2,989,300	\$2,830,050	\$3,160,100	\$3,083,150	\$2,979,000	\$3,267,250	\$2,852,550	\$3,160,050	\$3,279,550	\$2,758,700	\$3,252,950	\$36,856,900
3	Plus: MISO Charges 1/	\$5,654,498	\$2,206,861	\$6,299,094	\$4,915,797	\$3,060,392	\$4,302,299	\$4,435,525	\$4,630,971	\$3,201,732	\$2,842,850	\$3,385,871	\$3,640,188	\$48,576,079
4	Less: MISO Schedules 16 & 17 & 24 1/	(\$27,285)	(\$21,516)	(\$25,204)	(\$25,660)	(\$37,694)	(\$27,181)	(\$21,250)	(\$18,413)	(\$20,948)	(\$16,920)	(\$24,364)	(\$22,806)	(\$289,240)
	Schedule 16	\$98,854	\$103,173	\$100,009	\$99,547	\$89,546	\$98,397	\$103,350	\$105,586	\$104,208	\$106,642	\$100,594	\$102,073	\$1,211,981
	Schedule 17	\$15,861	\$17,311	\$16,788	\$16,793	\$14,760	\$16,422	\$17,400	\$18,001	\$16,844	\$18,438	\$17,042	\$17,121	\$202,780
	Schedule 24	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$142,000)	(\$1,704,000)
5	Less: Costs Recovered Through Inter-System Sales	\$19,689,648	\$14,327,219	\$13,650,390	\$11,242,292	\$15,139,261	\$12,325,664	\$12,378,255	\$11,222,728	\$10,334,495	\$9,825,556	\$11,536,087	\$13,103,125	\$154,774,719
	Customer Inter-System Sales	\$3,777,487	\$3,350,137	\$2,608,732	\$2,041,750	\$1,953,515	\$2,081,664	\$2,503,984	\$2,442,030	\$2,159,504	\$2,203,183	\$2,146,794	\$2,651,663	\$29,920,442
	Market Sales	\$8,657,299	\$6,525,431	\$7,594,289	\$7,402,396	\$10,517,273	\$7,543,105	\$7,002,088	\$5,729,977	\$6,518,143	\$6,189,726	\$6,898,895	\$7,469,134	\$88,047,756
	Station Service	\$4,760	\$4,760	\$4,760	\$10,144	\$4,760	\$4,760	\$4,760	\$4,760	\$4,760	\$28,987	\$4,760	\$4,760	\$86,734
	MISO Costs 1/	\$1,410,391	\$479,275	\$1,476,275	\$1,147,477	\$983,520	\$1,052,756	\$913,918	\$847,193	\$642,869	\$503,973	\$776,295	\$805,321	\$11,039,265
	Sales due to Retail Loss of Load	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Asset Based Sale Margins	\$5,839,711	\$3,967,615	\$1,966,334	\$640,524	\$1,680,193	\$1,643,379	\$1,953,504	\$2,198,767	\$1,009,218	\$899,687	\$1,709,343	\$2,172,246	\$25,680,523
6	Less: Costs Related to Solar	\$95,071	\$137,751	\$226,369	\$258,208	\$291,803	\$308,444	\$347,857	\$303,767	\$233,124	\$153,642	\$100,749	\$65,529	\$2,522,315
7	Plus: Time of Generation and Solar Energy Adjustment	\$59,466	\$72,695	\$117,896	\$128,820	\$150,651	\$146,103	\$186,803	\$159,787	\$127,873	\$101,440	\$55,236	\$37,401	\$1,344,170
8	Total Monthly Cost of Fuel	\$22,958,296	\$20,415,366	\$25,020,015	\$21,656,760	\$20,164,275	\$22,102,915	\$24,299,240	\$23,060,244	\$21,581,859	\$21,009,534	\$20,399,038	\$23,084,636	\$265,752,178

MWh Sales														
9	Total Sales of Electricity	1,258,023	1,081,249	1,193,489	1,093,108	1,236,114	1,097,166	1,108,830	1,080,754	1,061,552	1,052,703	1,136,266	1,195,106	13,594,358
	Residential	116,487	98,287	94,051	80,609	73,394	67,184	82,301	77,278	73,628	75,545	86,656	111,396	1,036,816
	Commercial	105,083	99,316	105,607	89,063	91,220	94,554	105,123	109,414	100,434	92,422	93,602	109,941	1,195,779
	LP Taconite	364,757	330,551	365,618	333,840	353,820	349,061	362,389	348,180	349,494	353,924	357,499	362,768	4,231,901
	LP Paper and Pulp	51,260	46,855	51,157	49,662	50,547	49,419	51,090	51,106	49,173	49,847	49,197	50,791	600,104
	LP Pipeline	30,252	30,055	31,500	27,364	23,773	23,824	24,359	22,391	21,010	23,278	24,683	26,992	309,481
	Other Misc.	29,863	27,905	29,064	27,514	26,983	27,311	27,790	28,174	27,007	27,959	27,070	28,105	334,745
	Municipals	115,623	109,646	117,008	105,505	104,904	104,764	113,074	111,581	103,050	110,655	111,344	119,434	1,326,588
	Inter System Sales	444,698	338,634	399,484	379,551	511,473	381,049	342,704	332,630	337,756	319,073	386,215	385,679	4,558,944
10	Less: Inter-System Sales	444,698	338,634	399,484	379,551	511,473	381,049	342,704	332,630	337,756	319,073	386,215	385,679	4,558,944
	Customer Inter-System Sales	76,506	72,034	69,923	65,742	64,426	67,313	73,321	72,834	68,478	67,879	70,252	75,706	844,414
	Market Sales	368,054	266,462	329,424	313,522	446,909	313,598	269,245	259,658	269,140	250,385	315,825	309,835	3,712,057
	Station Service	138	138	138	287	138	138	138	138	138	809	138	138	2,473
	Sales due to Retail Loss of Load	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Less: Solar Generation and Purchased MWh	2,434	3,390	5,020	5,748	6,494	6,780	7,568	6,698	5,189	3,873	2,385	1,744	57,323
12	Total Monthly MWh Sales	810,891	739,225	788,985	707,809	718,147	709,337	758,558	741,426	718,607	729,757	747,666	807,683	8,978,091

Fuel Adjustment Charge - Fuel Clause (¢/KWh)													Average	
13	1-Month Average Cost of Fuel (¢/kWh)	2.831	2.762	3.171	3.060	2.808	3.116	3.203	3.110	3.003	2.879	2.728	2.858	\$2.961

1-Month Average Cost of Fuel by Energy Type (¢/kWh)													
Billing Month:		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
17	Generation - Coal	0.814	0.927	0.915	0.643	0.545	0.725	0.882	0.932	0.859	0.639	0.758	0.916
18	Generation - Gas	0.005	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
19	Generation - BioFuel	0.240	0.244	0.077	0.007	0.000	0.016	0.049	0.036	0.003	0.000	0.014	0.103
20	Purchased Power - Coal	0.018	0.017	0.009	0.022	0.011	0.014	0.022	0.094	0.028	0.035	0.094	0.009
21	Purchased Power - Biomass	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	Purchased Power - Hydro	0.989	1.010	1.022	1.037	1.338	1.422	1.342	1.085	1.026	0.987	1.026	0.965
23	Purchased Power - Gas	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	Purchased Power - Wind	0.362	0.328	0.353	0.401	0.386	0.301	0.247	0.252	0.341	0.387	0.377	0.335
25	Purchased Power - Diesel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	Purchased Power - Solar	0.012	0.019	0.029	0.036	0.041	0.043	0.046	0.041	0.032	0.021	0.013	0.008
27	Purchased Power - Unknown	0.392	0.217	0.766	0.914	0.488	0.595	0.613	0.671	0.713	0.810	0.446	0.521
28	Total One-Month Average Cost	2.831	2.762	3.171	3.060	2.808	3.116	3.203	3.110	3.003	2.879	2.728	2.858

NOTES:

1/ See Attachment 3 for MISO Costs breakdown and Assumptions

Fuel Adjustment Clause 16 is applicable to all retail schedules except Competitive Rates, Industrial Economy, Excess Energy, Replacement Firm Power Service, Interruptible Power and Incremental Production Service. KWH Sales under Competitive Rate Schedules are not subject to the Fuel Clause but the Competitive Rate does recover the base cost of fuel.

Beginning November 1, 2009, with final rates, the company began applying the Fuel Adjustment Clause based (Fuel and Purchased Energy Adjustment) on Class Cost Factors for each different rate class such as Residential, General Service, Large Light and Power, Large Power, Municipal Pumping and Lighting

Generation Costs

Thermal Generation														
		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
Generation - Coal		[TRADE SECRET DATA BEGINS]												
Boswell 3	MWh													
	Average Cost													
Total Cost		\$ 5,576,733	\$ 5,050,885	\$ 5,894,933	\$ 4,436,277	\$ 5,464,247	\$ 4,690,024	\$ 5,090,298	\$ 5,254,606	\$ 4,328,812	\$ 5,580,506	\$ 5,009,997	\$ 5,727,607	\$ 62,104,926
Boswell 4		[TRADE SECRET DATA BEGINS]												
Boswell 4	MWh													
	Average Cost													
Total Cost		\$ 7,598,928	\$ 6,885,013	\$ 7,702,954	\$ 5,841,466	\$ 7,042,297	\$ 6,582,196	\$ 6,824,075	\$ 6,808,711	\$ 6,903,339	\$ 3,239,575	\$ 7,060,684	\$ 7,531,282	\$ 80,020,521
Total Generation Coal		\$ 13,175,661	\$ 11,935,898	\$ 13,597,887	\$ 10,277,743	\$ 12,506,545	\$ 11,272,220	\$ 11,914,373	\$ 12,063,317	\$ 11,232,151	\$ 8,820,082	\$ 12,070,681	\$ 13,258,890	\$ 142,125,447
Generation - Gas		[TRADE SECRET DATA BEGINS]												
Laskin 1	MWh													
	Average Cost													
Total Cost		\$ 217,352	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97,068	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 314,420
Laskin 2		[TRADE SECRET DATA BEGINS]												
Laskin 2	MWh													
	Average Cost													
Total Cost		\$ 217,352	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97,068	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 314,420
Total Generation Gas		\$ 434,704	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 194,137	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 628,840
Generation - Biofuel		[TRADE SECRET DATA BEGINS]												
Hibbard 3	MWh													
	Average Cost													
Total Cost		\$ 968,335	\$ 903,564	\$ 202,285	\$ -	\$ -	\$ -	\$ 111,361	\$ 42,776	\$ -	\$ -	\$ -	\$ 238,522	\$ 2,466,844
Hibbard 4		[TRADE SECRET DATA BEGINS]												
Hibbard 4	MWh													
	Average Cost													
Total Cost		\$ 949,231	\$ 900,147	\$ 415,758	\$ 50,582	\$ -	\$ 115,604	\$ 271,909	\$ 228,417	\$ 24,623	\$ -	\$ 108,279	\$ 73,823	\$ 3,138,373
Total Generation Biofuel		\$ 1,917,566	\$ 1,803,711	\$ 618,043	\$ 50,582	\$ -	\$ 115,604	\$ 383,270	\$ 271,193	\$ 24,623	\$ -	\$ 108,279	\$ 312,345	\$ 5,605,217
Total Thermal Generation		\$ 15,527,931	\$ 13,739,609	\$ 14,215,930	\$ 10,328,326	\$ 12,506,545	\$ 11,387,824	\$ 12,491,781	\$ 12,334,510	\$ 11,256,774	\$ 8,820,082	\$ 12,178,960	\$ 13,571,235	\$ 148,359,504

Wind Generation														
		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
Bison		[TRADE SECRET DATA BEGINS]												
Bison	MWh													
	Average Cost													
Total Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tac Ridge		[TRADE SECRET DATA BEGINS]												
Tac Ridge	MWh													
	Average Cost													
Total Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Wind Generation		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Hydro Generation														
		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
Hydro		[TRADE SECRET DATA BEGINS]												
Hydro	MWh													
	Average Cost													
Total Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Hydro Generation		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

		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
Total Company Generation		\$ 15,527,931	\$ 13,739,609	\$ 14,215,930	\$ 10,328,326	\$ 12,506,545	\$ 11,387,824	\$ 12,491,781	\$ 12,334,510	\$ 11,256,774	\$ 8,820,082	\$ 12,178,960	\$ 13,571,235	\$ 148,359,504

Purchase Power Market														
	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	
Manitoba Hydro	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
	Total Cost	\$ 8,199,106	\$ 7,480,996	\$ 8,227,590	\$ 7,850,979	\$ 10,759,462	\$ 10,347,580	\$ 10,299,390	\$ 8,061,776	\$ 7,693,008	\$ 8,013,632	\$ 7,741,152	\$ 7,918,158	\$ 102,592,828
Market Purchase	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
	Total Cost	\$ 4,125,974	\$ 3,347,544	\$ 2,173,626	\$ 2,144,859	\$ 1,383,020	\$ 1,548,470	\$ 2,272,447	\$ 2,593,759	\$ 2,470,701	\$ 3,376,788	\$ 1,438,472	\$ 3,151,374	\$ 30,027,034
Minnkota Power- Station Service	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
	Total Cost	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 540,981
Purchase to Serve Non-Firm Retail Customer	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
	Total Cost	\$ 2,819,954	\$ 2,402,298	\$ 1,935,879	\$ 1,444,162	\$ 1,486,677	\$ 1,490,075	\$ 1,757,560	\$ 1,693,069	\$ 1,471,161	\$ 1,505,335	\$ 1,481,317	\$ 1,834,706	\$ 21,322,193
Total Purchase Power Market \$		\$ 15,190,116	\$ 13,275,920	\$ 12,382,177	\$ 11,485,082	\$ 13,674,241	\$ 13,431,207	\$ 14,374,478	\$ 12,393,685	\$ 11,679,951	\$ 12,940,836	\$ 10,706,022	\$ 12,949,319	\$ 154,483,036

Purchase Power Wind															
		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	
Oliver 1	MWh	[TRADE SECRET DATA BEGINS]													
	Average Cost														
	Total Cost	\$ 399,363	\$ 283,286	\$ 348,180	\$ 330,585	\$ 335,319	\$ 263,136	\$ 250,592	\$ 258,761	\$ 319,305	\$ 366,574	\$ 376,188	\$ 329,672	\$ 3,860,961	
Oliver 2	MWh	[TRADE SECRET DATA BEGINS]													
	Average Cost														
	Total Cost	\$ 686,401	\$ 492,549	\$ 598,690	\$ 566,432	\$ 562,736	\$ 434,799	\$ 401,598	\$ 427,944	\$ 533,775	\$ 629,355	\$ 614,053	\$ 580,725	\$ 6,529,057	
Wing River	MWh	[TRADE SECRET DATA BEGINS]													
	Average Cost														
	Total Cost	\$ 23,071	\$ 20,032	\$ 22,283	\$ 24,476	\$ 23,478	\$ 17,175	\$ 15,177	\$ 14,183	\$ 20,620	\$ 23,532	\$ 23,999	\$ 22,703	\$ 250,729	
Nobles 2	MWh	[TRADE SECRET DATA BEGINS]													
	Average Cost														
	Total Cost	\$ 1,827,526	\$ 1,629,418	\$ 1,814,543	\$ 1,914,160	\$ 1,847,458	\$ 1,417,810	\$ 1,207,410	\$ 1,170,182	\$ 1,578,604	\$ 1,802,843	\$ 1,804,382	\$ 1,773,876	\$ 19,788,212	
Total Purchase Power Wind \$		\$ 2,936,361	\$ 2,425,285	\$ 2,783,696	\$ 2,835,653	\$ 2,768,992	\$ 2,132,920	\$ 1,874,777	\$ 1,871,069	\$ 2,452,304	\$ 2,822,303	\$ 2,818,623	\$ 2,706,977	\$ 30,428,960	

Purchase Power Solar															
		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	
SES 20MW Solar	MWh	[TRADE SECRET DATA BEGINS]													
	Average Cost														
Total Cost		\$ 95,071	\$ 137,751	\$ 226,369	\$ 258,208	\$ 291,803	\$ 308,444	\$ 347,857	\$ 303,767	\$ 233,124	\$ 153,642	\$ 100,749	\$ 65,529	\$ 2,522,315	
Purchase to Serve Municipal Solar Energy	MWh	[TRADE SECRET DATA BEGINS]													
	Average Cost														
Total Cost		\$ 8,037	\$ 11,400	\$ 16,359	\$ 19,615	\$ 21,871	\$ 22,045	\$ 25,632	\$ 21,987	\$ 16,722	\$ 11,109	\$ 7,348	\$ 6,885	\$ 189,009	
Total Purchase Power Solar \$		\$ 103,108	\$ 149,151	\$ 242,728	\$ 277,822	\$ 313,674	\$ 330,489	\$ 373,489	\$ 325,754	\$ 249,846	\$ 164,751	\$ 108,097	\$ 72,414	\$ 2,711,324	

Purchases

Purchase Power- Square Butte														
	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	
Square Butte	[TRADE SECRET DATA BEGINS]													
	TRADE SECRET DATA ENDS]													
Total Cost	\$ 3,244,250	\$ 2,989,300	\$ 2,830,050	\$ 3,160,100	\$ 3,083,150	\$ 2,979,000	\$ 3,267,250	\$ 2,852,550	\$ 3,160,050	\$ 3,279,550	\$ 2,758,700	\$ 3,252,950	\$ 36,856,900	
Total Purchase Power Coal \$	\$ 3,244,250	\$ 2,989,300	\$ 2,830,050	\$ 3,160,100	\$ 3,083,150	\$ 2,979,000	\$ 3,267,250	\$ 2,852,550	\$ 3,160,050	\$ 3,279,550	\$ 2,758,700	\$ 3,252,950	\$ 36,856,900	

	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	
Total Company Purchase Power	\$ 21,473,835	\$ 18,839,656	\$ 18,238,651	\$ 17,758,657	\$ 19,840,057	\$ 18,873,616	\$ 19,889,995	\$ 17,443,058	\$ 17,542,152	\$ 19,207,440	\$ 16,391,443	\$ 18,981,660	\$ 224,480,219	

Purchases by Fuel Type

Purchase Power- Coal														
		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
Square Butte	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ 3,244,250	\$ 2,989,300	\$ 2,830,050	\$ 3,160,100	\$ 3,083,150	\$ 2,979,000	\$ 3,267,250	\$ 2,852,550	\$ 3,160,050	\$ 3,279,550	\$ 2,758,700	\$ 3,252,950	\$ 36,856,900
Total Purchase Power Coal \$		\$ 3,244,250	\$ 2,989,300	\$ 2,830,050	\$ 3,160,100	\$ 3,083,150	\$ 2,979,000	\$ 3,267,250	\$ 2,852,550	\$ 3,160,050	\$ 3,279,550	\$ 2,758,700	\$ 3,252,950	\$ 36,856,900

Purchase Power Biomass														
		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
	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Purchase Power Biomass \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Purchase Power Hydro														
		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
MHEB	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ 8,199,106	\$ 7,480,996	\$ 8,227,590	\$ 7,850,979	\$ 10,759,462	\$ 10,347,580	\$ 10,299,390	\$ 8,061,776	\$ 7,693,008	\$ 8,013,632	\$ 7,741,152	\$ 7,918,158	\$ 102,592,828
Total Purchase Power Hydro \$		\$ 8,199,106	\$ 7,480,996	\$ 8,227,590	\$ 7,850,979	\$ 10,759,462	\$ 10,347,580	\$ 10,299,390	\$ 8,061,776	\$ 7,693,008	\$ 8,013,632	\$ 7,741,152	\$ 7,918,158	\$ 102,592,828

Purchase Power Gas														
		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
	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Purchase Power Gas \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Purchase Power Wind														
		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
Oliver 1	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ 399,363	\$ 283,286	\$ 348,180	\$ 330,585	\$ 335,319	\$ 263,136	\$ 250,592	\$ 258,761	\$ 319,305	\$ 366,574	\$ 376,188	\$ 329,672	\$ 3,860,961
Oliver 2	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ 686,401	\$ 492,549	\$ 598,690	\$ 566,432	\$ 562,736	\$ 434,799	\$ 401,598	\$ 427,944	\$ 533,775	\$ 629,355	\$ 614,053	\$ 580,725	\$ 6,529,057
Wing River	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ 23,071	\$ 20,032	\$ 22,283	\$ 24,476	\$ 23,478	\$ 17,175	\$ 15,177	\$ 14,183	\$ 20,620	\$ 23,532	\$ 23,999	\$ 22,703	\$ 250,729
Nobles 2	MWh	[TRADE SECRET DATA BEGINS]												
	Average Cost													
		TRADE SECRET DATA ENDS]												
	Total Cost	\$ 1,827,526	\$ 1,629,418	\$ 1,814,543	\$ 1,914,160	\$ 1,847,458	\$ 1,417,810	\$ 1,207,410	\$ 1,170,182	\$ 1,578,604	\$ 1,802,843	\$ 1,804,382	\$ 1,773,876	\$ 19,788,212
Total Purchase Power Wind \$		\$ 2,936,361	\$ 2,425,285	\$ 2,783,696	\$ 2,835,653	\$ 2,768,992	\$ 2,132,920	\$ 1,874,777	\$ 1,871,069	\$ 2,452,304	\$ 2,822,303	\$ 2,818,623	\$ 2,706,977	\$ 30,428,960

Purchases by Fuel Type

Purchase Power Diesel														
	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	
[TRADE SECRET DATA BEGINS]														
MWh														
Average Cost														
														TRADE SECRET DATA ENDS]
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Purchase Power Diesel \$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Purchase Power Solar														
	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	
[TRADE SECRET DATA BEGINS]														
SES 20MW Solar														
MWh														
Average Cost														
														TRADE SECRET DATA ENDS]
Total Cost	\$ 95,071	\$ 137,751	\$ 226,369	\$ 258,208	\$ 291,803	\$ 308,444	\$ 347,857	\$ 303,767	\$ 233,124	\$ 153,642	\$ 100,749	\$ 65,529	\$ 2,522,315	
[TRADE SECRET DATA BEGINS]														
Purchase to Serve Municipal Solar Energy														
MWh														
Average Cost														
														TRADE SECRET DATA ENDS]
Total Cost	\$ 8,037	\$ 11,400	\$ 16,359	\$ 19,615	\$ 21,871	\$ 22,045	\$ 25,632	\$ 21,987	\$ 16,722	\$ 11,109	\$ 7,348	\$ 6,885	\$ 189,009	
Total Purchase Power Solar \$	\$ 103,108	\$ 149,151	\$ 242,728	\$ 277,822	\$ 313,674	\$ 330,489	\$ 373,489	\$ 325,754	\$ 249,846	\$ 164,751	\$ 108,097	\$ 72,414	\$ 2,711,324	

Purchase Power Unknown														
	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	
[TRADE SECRET DATA BEGINS]														
Market Purchase														
MWh														
Average Cost														
														TRADE SECRET DATA ENDS]
Total Cost	\$ 4,125,974	\$ 3,347,544	\$ 2,173,626	\$ 2,144,859	\$ 1,383,020	\$ 1,548,470	\$ 2,272,447	\$ 2,593,759	\$ 2,470,701	\$ 3,376,788	\$ 1,438,472	\$ 3,151,374	\$ 30,027,034	
[TRADE SECRET DATA BEGINS]														
MPC- Station Service														
MWh														
Average Cost														
														TRADE SECRET DATA ENDS]
Total Cost	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 45,082	\$ 540,981	
[TRADE SECRET DATA BEGINS]														
Purchase to Serve Non-Firm Retail Customer														
MWh														
Average Cost														
														TRADE SECRET DATA ENDS]
Total Cost	\$ 2,819,954	\$ 2,402,298	\$ 1,935,879	\$ 1,444,162	\$ 1,486,677	\$ 1,490,075	\$ 1,757,560	\$ 1,693,069	\$ 1,471,161	\$ 1,505,335	\$ 1,481,317	\$ 1,834,706	\$ 21,322,193	
Total Purchase Power Unknown \$	\$ 6,991,010	\$ 5,794,924	\$ 4,154,587	\$ 3,634,103	\$ 2,914,779	\$ 3,083,627	\$ 4,075,089	\$ 4,331,909	\$ 3,986,943	\$ 4,927,205	\$ 2,964,870	\$ 5,031,161	\$ 51,890,208	

	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	
Total Company Purchase Power	\$ 21,473,835	\$ 18,839,656	\$ 18,238,651	\$ 17,758,657	\$ 19,840,057	\$ 18,873,616	\$ 19,889,995	\$ 17,443,058	\$ 17,542,152	\$ 19,207,440	\$ 16,391,443	\$ 18,981,660	\$ 224,480,219	

Intersystem Sales

Inter-System Sales- Customer Sales														
	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	
Incremental Product Service and RFPS	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 225,980	\$ 139,661	\$ 126,221	\$ 106,962	\$ 74,895	\$ 91,302	\$ 98,810	\$ 106,523	\$ 137,623	\$ 138,450	\$ 163,060	\$ 167,391	\$ 1,576,877	
Economy and Non Firm Energy	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 3,033,646	\$ 2,698,561	\$ 2,168,487	\$ 1,705,836	\$ 1,707,778	\$ 1,745,237	\$ 2,036,325	\$ 2,023,479	\$ 1,816,344	\$ 1,773,030	\$ 1,688,186	\$ 2,054,876	\$ 24,451,785	
Municipal Incremental	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 509,824	\$ 500,516	\$ 297,666	\$ 209,336	\$ 148,971	\$ 223,080	\$ 343,217	\$ 290,041	\$ 188,815	\$ 280,594	\$ 288,200	\$ 422,511	\$ 3,702,771	
Municipal Solar Energy	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 8,037	\$ 11,400	\$ 16,359	\$ 19,615	\$ 21,871	\$ 22,045	\$ 25,632	\$ 21,987	\$ 16,722	\$ 11,109	\$ 7,348	\$ 6,885	\$ 189,009	
Total Inter-System Sales- Customer (MWhs)	76,506	72,034	69,923	65,742	64,426	67,313	73,321	72,834	68,478	67,879	70,252	75,706	844,414	
Total Inter-System Sales- Customer (Dollars)	\$ 3,777,487	\$ 3,350,137	\$ 2,608,732	\$ 2,041,750	\$ 1,953,515	\$ 2,081,664	\$ 2,503,984	\$ 2,442,030	\$ 2,159,504	\$ 2,203,183	\$ 2,146,794	\$ 2,651,663	\$ 29,920,442	
Inter-System Sales- Market Sales														
	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	
Oconto	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 293,713	\$ 258,367	\$ 250,769	\$ 214,814	\$ 204,153	\$ 217,464	\$ 259,940	\$ 246,928	\$ 210,337	\$ 224,042	\$ 252,976	\$ 290,667	\$ 2,924,170	
Hibbing Public Utilities	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 106,276	\$ 96,400	\$ 108,106	\$ 107,385	\$ 109,941	\$ 105,837	\$ 107,595	\$ 108,029	\$ 106,380	\$ 111,284	\$ 105,731	\$ 107,779	\$ 1,280,743	
Asset Based Sales (Non MISO)	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Liquidated Sales (Non MISO)	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
MISO Market Sales	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 5,868,685	\$ 3,969,750	\$ 5,151,749	\$ 4,753,530	\$ 7,933,167	\$ 5,026,473	\$ 4,228,995	\$ 3,274,791	\$ 3,874,795	\$ 3,439,785	\$ 4,509,056	\$ 4,675,658	\$ 56,706,435	
Minnkota Power Liquidation	[TRADE SECRET DATA BEGINS]													
	MWh													
	Average Fuel Cost													
TRADE SECRET DATA ENDS]														
Total Fuel Cost	\$ 2,388,624	\$ 2,200,914	\$ 2,083,664	\$ 2,326,668	\$ 2,270,012	\$ 2,193,330	\$ 2,405,559	\$ 2,100,230	\$ 2,326,631	\$ 2,414,615	\$ 2,031,131	\$ 2,395,030	\$ 27,136,409	
Total Inter-System Sales- Market (MWhs)	368,054	266,462	329,424	313,522	446,909	313,598	269,245	259,658	269,140	250,385	315,825	309,835	3,712,057	
Total Inter-System Sales- Market (Dollars)	\$ 8,657,299	\$ 6,525,431	\$ 7,594,289	\$ 7,402,396	\$ 10,517,273	\$ 7,543,105	\$ 7,002,088	\$ 5,729,977	\$ 6,518,143	\$ 6,189,726	\$ 6,898,895	\$ 7,469,134	\$ 88,047,756	

Intersystem Sales

Inter-System Sales- Station Service															
		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	
Oliver 1	MWh	[TRADE SECRET DATA BEGINS]													
	Average Fuel Cost														
		[TRADE SECRET DATA BEGINS]													
	Total Fuel Cost	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 762	\$ 9,146	
Oliver 2	MWh	[TRADE SECRET DATA BEGINS]													
	Average Fuel Cost														
		[TRADE SECRET DATA BEGINS]													
	Total Fuel Cost	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 672	\$ 8,063	
WPPI	MWh	[TRADE SECRET DATA BEGINS]													
	Average Fuel Cost														
		[TRADE SECRET DATA BEGINS]													
	Total Fuel Cost	\$ 3,326	\$ 3,326	\$ 3,326	\$ 8,710	\$ 3,326	\$ 3,326	\$ 3,326	\$ 3,326	\$ 3,326	\$ 3,326	\$ 27,553	\$ 3,326	\$ 3,326 \$ 69,526	
Total Inter-System Sales- Station Service (MWhs)		138	138	138	287	138	138	138	138	138	809	138	138	2,473	
Total Inter-System Sales- Station Service (Dollars)		\$ 4,760	\$ 4,760	\$ 4,760	\$ 10,144	\$ 4,760	\$ 4,760	\$ 4,760	\$ 4,760	\$ 4,760	\$ 4,760	\$ 28,987	\$ 4,760	\$ 4,760 \$ 86,734	
Inter-System Sales- MISO Costs															
		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	
MISO Recovered thru Market Sales Total Cost		\$ 1,410,391	\$ 479,275	\$ 1,476,275	\$ 1,147,477	\$ 983,520	\$ 1,052,756	\$ 913,918	\$ 847,193	\$ 642,869	\$ 503,973	\$ 776,295	\$ 805,321	\$ 11,039,265	
Total Inter-System Sales- MISO Costs (Dollars)		\$ 1,410,391	\$ 479,275	\$ 1,476,275	\$ 1,147,477	\$ 983,520	\$ 1,052,756	\$ 913,918	\$ 847,193	\$ 642,869	\$ 503,973	\$ 776,295	\$ 805,321	\$ 11,039,265	
Inter-System Sales- Sales due to Retail Loss of Load															
		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	
Sales due to Retail Loss of Load	MWh	[TRADE SECRET DATA BEGINS]													
	Average Fuel Cost														
		[TRADE SECRET DATA BEGINS]													
	Total Fuel Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
MISO Recovered thru Sales due to Retail Loss of Load Total Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Liquidation for Sales due to Retail Loss of Load Total Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Inter-System Sales- Sales due to Retail Loss of Load (MWhs)		0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Inter-System Sales- Sales due to Retail Loss of Load (Dollars)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Inter-System Sales- Margins															
		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	
Asset Based Sales Margins Total Margins		\$ 5,839,711	\$ 3,967,615	\$ 1,966,334	\$ 640,524	\$ 1,680,193	\$ 1,643,379	\$ 1,953,504	\$ 2,198,767	\$ 1,009,218	\$ 899,687	\$ 1,709,343	\$ 2,172,246	\$ 25,680,523	
Total Inter-System Sales- MISO Costs (Dollars)		\$ 5,839,711	\$ 3,967,615	\$ 1,966,334	\$ 640,524	\$ 1,680,193	\$ 1,643,379	\$ 1,953,504	\$ 2,198,767	\$ 1,009,218	\$ 899,687	\$ 1,709,343	\$ 2,172,246	\$ 25,680,523	
		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	
Total Company Inter System Sales MWhs		444,698	338,634	399,484	379,551	511,473	381,049	342,704	332,630	337,756	319,073	386,215	385,679	4,558,944	
Total Company Inter System Sales Dollars		\$ 19,689,648	\$ 14,327,219	\$ 13,650,390	\$ 11,242,292	\$ 15,139,261	\$ 12,325,664	\$ 12,378,255	\$ 11,222,728	\$ 10,334,495	\$ 9,825,556	\$ 11,536,087	\$ 13,103,125	\$ 154,774,719	

Solar Energy Adjustment

SOLAR ENERGY ADJUSTMENT

Docket No. E015/M-15-773

	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023
Total Monthly Fuel Cost	22,993,901	20,480,422	25,128,488	21,786,148	20,305,427	22,265,256	24,460,295	23,204,224	21,687,111	21,061,736	20,444,551	23,112,764
Less: Costs related to Solar	95,071	137,751	226,369	258,208	291,803	308,444	347,857	303,767	233,124	153,642	100,749	65,529
Total Non-Solar FAC Costs	22,898,830	20,342,672	24,902,119	21,527,940	20,013,624	21,956,812	24,112,437	22,900,457	21,453,986	20,908,094	20,343,802	23,047,235
Current 2-Month Total Fuel Cost	43,085,382	43,241,502	45,244,791	46,430,059	41,541,564	41,970,436	46,069,249	47,012,894	44,354,443	42,362,080	41,251,896	43,391,037
Total Monthly KWH Sales	813,325,000	742,615,000	794,005,000	713,557,000	724,641,000	716,117,000	766,126,000	748,124,000	723,796,000	733,630,000	750,051,000	809,427,000
Less: Solar Generation and Purchases	2,434,259	3,389,524	5,020,051	5,748,129	6,493,877	6,779,957	7,568,414	6,698,206	5,188,866	3,872,940	2,385,074	1,743,688
Total Non-Solar FAC KWH Sales	810,890,741	739,225,476	788,984,949	707,808,871	718,147,123	709,337,043	758,557,586	741,425,794	718,607,134	729,757,060	747,665,926	807,683,312
Current 2-Month Total KWH Sales	1,610,849,641	1,550,116,217	1,528,210,424	1,496,793,820	1,425,955,994	1,427,484,166	1,467,894,629	1,499,983,380	1,460,032,928	1,448,364,194	1,477,422,986	1,555,349,237
Fuel Cost - cents/kWh	2.675	2.790	2.961	3.102	2.913	2.940	3.138	3.134	3.038	2.925	2.792	2.790
TOGA Percentage	91.32%	76.87%	79.31%	72.25%	79.64%	73.30%	78.65%	76.12%	81.12%	89.55%	82.95%	76.88%
Fuel Cost Credit to the SEA - cents/kWh	2.443	2.145	2.349	2.241	2.320	2.155	2.468	2.386	2.464	2.619	2.316	2.145
BILLING MONTH:	March 2023	May 2023	June 2023	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023	January 2024	February 2024	March 2024

	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023
TOGA Percentage	91.32%	76.87%	79.31%	72.25%	79.64%	73.30%	78.65%	76.12%	81.12%	89.55%	82.95%	76.88%
Less: 100 Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Total TOGA Percentage to the FAC	-8.68%	-23.13%	-20.69%	-27.75%	-20.36%	-26.70%	-21.35%	-23.88%	-18.88%	-10.45%	-17.05%	-23.12%
TOGA to the FAC (Dollars)	\$ (5,650.85)	\$ (21,873.12)	\$ (30,747.52)	\$ (49,486.62)	\$ (38,515.20)	\$ (53,228.10)	\$ (50,693.83)	\$ (50,135.13)	\$ (29,765.11)	\$ (11,843.22)	\$ (11,355.41)	\$ (11,248.06)

	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023
Costs Related to Solar	\$ 95,070.73	\$ 137,750.50	\$ 226,369.36	\$ 258,207.88	\$ 291,803.28	\$ 308,444.22	\$ 347,857.34	\$ 303,766.81	\$ 233,124.44	\$ 153,642.23	\$ 100,749.22	\$ 65,528.73
Less: Credit from FAC / TOGA	\$ 59,465.56	\$ 72,694.61	\$ 117,896.20	\$ 128,820.33	\$ 150,651.44	\$ 146,102.63	\$ 186,803.00	\$ 159,786.66	\$ 127,872.63	\$ 101,440.27	\$ 55,235.86	\$ 37,400.85
Net Costs Related to Solar	\$ 35,605.16	\$ 65,055.89	\$ 108,473.16	\$ 129,387.55	\$ 141,151.84	\$ 162,341.59	\$ 161,054.35	\$ 143,980.15	\$ 105,251.81	\$ 52,201.97	\$ 45,513.35	\$ 28,127.88
Current 2-Month Net Costs Related to Solar	\$ 19,429.43	\$ 100,661.05	\$ 173,529.05	\$ 237,860.70	\$ 270,539.38	\$ 303,493.43	\$ 323,395.94	\$ 305,034.50	\$ 249,231.96	\$ 157,453.77	\$ 97,715.32	\$ 73,641.24
Total Monthly kWh Sales	813,325,000	742,615,000	794,005,000	713,557,000	724,641,000	716,117,000	766,126,000	748,124,000	723,796,000	733,630,000	750,051,000	809,427,000
Less: Retail SES Exempt	411,585,888	373,318,888	412,446,888	379,282,888	400,659,888	394,573,888	409,303,888	395,083,888	394,933,888	399,819,888	402,934,888	409,656,888
Less: Municipal SES Exempt	115,623,000	109,646,000	117,008,000	105,505,000	104,904,000	104,764,000	113,074,000	111,581,000	103,050,000	110,655,000	111,344,000	119,434,000
Total Non-Exempt kWh Sales	286,116,112	259,650,112	264,550,112	228,769,112	219,077,112	216,779,112	243,748,112	241,459,112	225,812,112	223,155,112	235,772,112	280,336,112
Current 2-Month Total Non-Exempt kWh Sales	569,304,516	545,766,225	524,200,225	493,319,225	447,846,225	435,856,225	460,527,225	485,207,225	467,271,225	448,967,225	458,927,225	516,108,225
SEA Adjustment - Dollars per KWH	\$0.00003	\$0.00018	\$0.00033	\$0.00048	\$0.00060	\$0.00070	\$0.00070	\$0.00063	\$0.00053	\$0.00035	\$0.00021	\$0.00014
SEA Adjustment - cents per KWH	0.00341	0.01844	0.03310	0.04822	0.06041	0.06963	0.07022	0.06287	0.05334	0.03507	0.02129	0.01427
BILLING MONTH:	March 2023	May 2023	June 2023	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023	January 2024	February 2024	March 2024

Fuel & Energy Source Procurement and Energy Dispatching Policies
Minn. Rule 7825.2800

I. Fuel Source Procurement Policies

Fuel Cost Minimization Activities

Minnesota Power's fuel procurement practices are aimed at strategically minimizing our customers' current energy costs while complying with current environmental regulations and, simultaneously, taking action to assure cost-effective compliance with future environmental requirements. Attaining these objectives requires that purchases and sales of energy, applicable coal and rail contract provisions, current and projected emissions, mine plans of our suppliers, requirements of customers, fuel delivery schedules, fuel inventory, fuel and rail costs, etc., be continuously evaluated. Balancing these parameters requires superimposing long- and short-term planning objectives on near-term operations.

In addition, Minnesota Power uses a multi-discipline fuels procurement and strategy team to achieve fuel cost minimization and environmental compliance objectives. The team meets regularly to coordinate all activities related to fuel procurement. Objectives include:

- Implement strategies for short- and long-term fuel procurement which provide a high-quality, flexible, and reliable fuel supply to Minnesota Power facilities to achieve the lowest attainable electric rates.
- Optimize fuel costs and quality through developing, implementing and managing the short-term strategy for fuel scheduling and deliveries within operating and contract parameters.
- Environmental compliance planning efforts focus on the formulation, implementation and minimization of short- and long-term corporate strategies for fuel quality issues and the impact of fuel on plant performance and compliance with existing and emerging environmental regulations.

Energy Source Procurement and Dispatching Policies

Short Term Activities

The Midcontinent Independent System Operator (“MISO”) is a fully integrated regional transmission organization that operates a Day-Ahead Energy and Ancillary Services Market, a Real-Time Energy and Ancillary Services Market, a Financial Transmission Rights (“FTR”) Market, and a Planning Resource Auction for capacity.

Minnesota Power’s generation resources, load, and transmission assets are located within the MISO footprint and are part of the MISO market. The MISO markets are used to balance generation with load and to hedge congestion between generation and load. There are a variety of tools that Minnesota Power uses to help with analysis and participation in the MISO market. Minnesota Power offers to sell energy and ancillary services sourced from its supply resources and bids to buy energy to serve load in the MISO market each day. MISO procures enough market ancillary service products to meet the needs of the entire footprint and the Company is allocated its load ratio share of the costs to procure the needed ancillary services. If market clearing prices are above Minnesota Power’s generator offer prices, Minnesota Power generation will be selected to serve load. If market prices are below the generator offers, other lower cost resources will be selected to serve Minnesota Power’s load, and the Company’s generation will be backed down or taken offline for economics. The Company also looks to buy energy in the short term bilateral market when there is an energy need and purchases can be made below expected MISO day-ahead costs.

Medium Term Activities

Minnesota Power uses a production cost model to determine its forward monthly energy position. Model inputs include forecasted customer loads, generator capabilities, contract energy purchases and sales, forward energy prices, planned generator outages, and forced and maintenance outage rates. Inputs are updated and the model is run periodically to determine Minnesota Power’s forward energy position.

Planned generator outages are usually known about a year or more in advance. When a significant energy deficit is identified, the Company monitors the wholesale market for

least cost supply opportunities and enters into bilateral purchases to maintain volumetric position limits as outlined in Minnesota Power's Power Marketing Risk Management Policy. If forward energy prices drop below forecasted spot market prices the entire short position could be covered with a bilateral purchase prior to the start of the outage. If lower cost energy is available in the areas that border the MISO north region, Minnesota Power may choose to use bilateral purchases from those border areas to cover a generator outage.

II. Summary of Fuel Contracts

Coal Contracts

Kennecott Coal Sales LLC, an Oregon LLC (currently known as Navajo Transitional Energy Company, and formerly known as both Cloud Peak Energy and Rio Tinto Energy), Spring Creek Mine, Decker, Montana.

- Master Coal Purchase Agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] provides general terms and definitions governing purchases and sales of coal.
- An agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] also provides for purchases of a minimum of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] tons of coal for the period of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] through [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]

Arch Coal Sales, Black Thunder Mine, Wright, Wyoming

- Master Coal Purchase Agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] provides general terms and definitions governing purchases and sales of coal.
- An agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] also provides for purchases of a minimum of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] tons

of coal for the period of [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] through [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS]

- An agreement signed on [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] also provides for purchases of a minimum of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] tons of coal for the period of [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] through [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS]
- An agreement signed on [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] also provides for purchases of a minimum of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] tons of coal for the period of [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] through [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS]
- An agreement signed on [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] also provides for purchases of a minimum of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] tons of coal for the period of [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] through [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS]

Peabody CoalSales, LLC., St. Louis, Missouri, Caballo Mine, Campbell County, Wyoming

- An agreement signed on [TRADE SECRET DATA BEGINS [REDACTED]
TRADE SECRET DATA ENDS] also provides for purchases of a minimum of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] tons of coal for the period of [TRADE SECRET DATA BEGINS [REDACTED]

TRADE SECRET DATA ENDS] through **[TRADE SECRET DATA BEGINS**
██████████ TRADE SECRET DATA ENDS]

Biomass Contracts

Currently Minnesota Power purchases wood fuel under purchase orders with 10 separate suppliers for use at the Hibbard Renewable Energy Center with varying expiration dates. These type of purchases are expected to continue in 2023.

Rail Contracts

Burlington Northern Santa Fe (currently known as BNSF Railway)

- An agreement signed on **[TRADE SECRET DATA BEGINS** **██████████**
TRADE SECRET DATA ENDS] provides for the transportation of coal from **[TRADE SECRET DATA BEGINS** **██████████** **TRADE SECRET DATA ENDS]** through **[TRADE SECRET DATA BEGINS** **██████████** **TRADE SECRET DATA ENDS]** for a minimum of **[TRADE SECRET DATA BEGINS** **██████████** **TRADE SECRET DATA ENDS]** tons per year and a maximum of **[TRADE SECRET DATA BEGINS** **██████████** **TRADE SECRET DATA ENDS]** tons per year.

Supplemental Fuels

Minnesota Power uses natural gas for start-up and flame stabilization at the Boswell Station. Minnesota Power gets daily gas pricing from a supplier for natural gas at the Boswell Station. Minnesota Power also purchases natural gas for start-up, flame stabilization, as well as generation at the Hibbard Station. Minnesota Power purchases natural gas for the Hibbard Station from the City of Duluth Comfort Systems. At the Laskin Station, gas is purchased from BP as part of a gas management service contract. This agreement provides services from **[TRADE SECRET DATA BEGINS** **██████████** **TRADE SECRET DATA ENDS]** through **[TRADE SECRET DATA BEGINS** **██████████** **TRADE SECRET DATA ENDS]**.

Monthly Forecasted MISO Day 2 Charges and Allocation

Docket No. E999/AA-07-1130

Description of the following categories shown in Attachment 3:

1. ***FAC Retail*** – Sales MWh subject to the retail FAC allocation. Includes residential, commercial, industrial, seasonal firm loads that are allocated the retail fuel adjustment clause.
2. ***FAC Resale*** – Sales MWh subject to the resale FAC allocation. Includes municipal customers; for example; City of Nashwauk, City of Proctor, etc. that are allocated the resale fuel adjustment clause.
3. ***MISO Non-Liquidation*** – Asset based sales MWh from generation resources to MISO in the Day-Ahead or Real-Time markets.
4. ***MISO – Liquidation*** – Non-asset based sales MWh to MISO, the source of which was a purchase from another entity that was intended to serve load but was not needed because generation levels were higher than expected or loads were lower than expected.
5. ***Others – Liquidation*** – Non-asset based sales MWh to other entities (not MISO), the source of which was a purchase from another entity that was intended to serve load but was not needed because generation levels were higher than expected or loads were lower than expected.
6. ***Others – Non-Liquidation*** – Asset based sales MWh from generation resources to other entities (not MISO) and is not under a longer term contract. This group also includes retail non-firm sales that are not allocated fuel adjustment clause costs such as Large Power Interruptible and Large Power Incremental Production Service Sales.
7. ***Contract Sales*** – Asset based sales MWh related to longer term contracts.

Day Ahead and Real-Time Energy costs assigned for categories 3-7 above:

Minnesota Power's Energy Pricing system assigns purchases and generation based on cost not category type. Minnesota Power assigns the highest cost generation or purchases to non-FAC sales first to help ensure that the FAC receives the lowest cost generation or purchases. Certain transactions do not follow this methodology. Output from our renewable resource generators and renewable energy power purchase agreements are dedicated to load to help meet the states renewable energy standard. Minnesota Power then determines the source of the FAC MWh by a separate analysis. A similar analysis is not done for non-FAC sales because there has not been a need to report the sources of non-FAC sales. We are unable to identify what portion of Day Ahead and Real Time Energy was assigned to the other non-FAC categories.

As indicated as a footnote to the spreadsheet in our filing, Day Ahead Asset Energy, Real Time Asset Energy, Day Ahead Non-Asset Energy and Real Time Non-Asset Energy are not shown to be allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, and Contract Sales as these amounts are not tracked separately by Minnesota Power's systems as discussed above.

MINNESOTA POWER		Account										Subtotal FPE and FAC Cost/(Revenue)	MISO Non-Liquidation				
MISO MONTHLY ALLOCATION		Number	January 2023	FPE Retail		Revenue		FAC Resale		Revenue			Mwh		Cost	Mwh	Revenue
Day Ahead and Real Time Energy				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		Mwh	Cost	Mwh	Revenue	
	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-					
1a	Day Ahead Non-Asset Energy	55500-0027	-									-					
5																	
	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-					
13a			-									-					
	Excessive Energy Amount	55500-0066	-									-					
	Non-Excessive Energy Amount	55500-0069	-									-					
22	Real Time Non-Asset Energy	55500-0043	-									-					
Subtotal			-	695,268	0.00			115,623	-			-	244,921				
Day Ahead and Real Time Energy Loss																	
	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	5,833,815.41		3,543,924.59		-		576,917.96		-	4,120,842.54		1,294,889.83		-	
1c	Day Ahead Financial Bilateral Transaction Loss	55500-0022	101,291.19		61,848.40		-		10,068.34		-	71,916.74		22,205.06		-	
3																	
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-				-					-				-	
13c			-				-					-				-	
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(140,438.00)		-		(22,862.00)	(163,300.00)		-		(50,420.62)	
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-	
Subtotal			5,705,106.60	695,268	3,605,772.99	695,268	(140,438.00)	115,623	586,986.30	115,623	(22,862.00)	4,029,459.29	244,921	1,317,094.89	244,921	(50,420.62)	
Virtual Energy																	
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-					
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-					
Subtotal			-	695,268	-	695,268	-	115,623	-	115,623	-	-	244,921	-	244,921	-	
Schedule 16 & 17 1/																	
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		87,926.40		-		14,313.60		-	102,240.00		31,567.69		-	
	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,159.00		-		1,491.00		-	10,650.00		3,288.30		-	
19	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,076.04		-		337.96		-	2,414.00		745.35		-	
Subtotal			162,400.00	695,268	99,161.44	695,268	-	115,623	16,142.56	115,623	-	115,304.00	244,921	35,601.34	244,921	-	
Congestion, FTRs & ARRs																	
	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-	
1b			-				-					-				-	
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	101,291.19		61,848.40		-		10,068.34		-	71,916.74		22,205.06		-	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-	
	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(200,887.40)		-		(32,702.60)	(233,590.00)		-		(72,123.41)	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(29,308.80)		-		(4,771.20)	(34,080.00)		-		(10,522.56)	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		5,922.82		-		964.18		-	6,887.00		2,126.43		-	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(54,954.00)		-		(8,946.00)	(63,900.00)		-		(19,729.81)	
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-	
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-	
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-	
	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-	
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-	
Subtotal			(356,008.81)	695,268	67,771.22	695,268	(285,150.20)	115,623	11,032.52	115,623	(46,419.80)	(252,766.26)	244,921	24,331.50	244,921	(102,375.78)	
RSG & Make Whole Payments																	
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		15,265.00		-		2,485.00		-	17,750.00		5,480.50		-	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(7,937.80)		-		(1,292.20)	(9,230.00)		-		(2,849.86)	
	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,053.00)		-		(497.00)	(3,550.00)		-		(1,096.10)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		39,689.00		-		6,461.00		-	46,150.00		14,249.31		-	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(10,990.80)		-		(1,789.20)	(12,780.00)		-		(3,945.96)	
Subtotal			54,000.00	695,268	54,954.00	695,268	(21,981.60)	115,623	8,946.00	115,623	(3,578.40)	38,340.00	244,921	19,729.81	244,921	(7,891.92)	
RNU & Misc Charges																	
20	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-	
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-		(1,221.20)		-		(198.80)	(1,420.00)		-		(438.44)	
	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		116,014.00		-		18,886.00		-	134,900.00		41,651.82		-	
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-	
	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,495.40		-		894.60		-	6,390.00		1,972.98		-	
27	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-	
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-	
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		7,937.80		-		1,292.20		-	9,230.00		2,849.86		-	
Subtotal			210,000.00	695,268	129,447.20	695,268	(1,221.20)	115,623	21,072.80	115,623	(198.80)	149,100.00	244,921	46,474.66	244,921	(438.44)	
Grandfathered Charge Types																	
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-	-		-		-	
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-	-		-		-	
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-	-		-		-	
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-	-		-		-	
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-	-		-		-	
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-	-		-		-	
Subtotal			-	695,268	-	695,268	-	115,623	-	115,623	-	-	244,921	-	244,921	-	
ASM Charge Types (12 Other)																	
	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(39,078.40)		-		(6,361.60)	(45,440.00)		-		(14,030.09)	
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(26,255.80)		-		(4,274.20)	(30,530.00)		-		(9,426.46)	
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-	
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-	
	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-	
	Real Time Regulation Amount	55500-0070	17,000.00		10,380.20		-		1,689.80		-	12,070.00		3,726.74		-	
	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		21,371.00		-		3,479.00		-	24,850.00		7,672.70		-	
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		14,043.80		-		2,286.20		-	16,330.00		5,042.06		-	
	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,274.20		-		695.80		-	4,970.00		1,534.54		-	
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		18,318.00		-		2,982.00		-	21,300.00		6,576.60		-	
	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-	
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		4,884.80		-		795.20		-	5,680.00		1,753.76		-	
	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(8,548.40)		-		(1,391.60)	(9,940.00)		-		(3,069.08)	
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,831.80		-		298.20		-	2,130.00		657.66		-	
	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		11,601.40		-		1,888.60		-	13,490.00		4,165.18		-	
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-	
Subtotal			21,000.00	695,268	86,705.20	695,268	(73,882.60)	115,623	14,114.80	115,623	(12,027.40)	14,910.00	244,921	31,129.25	244,921	(26,525.63)	
Grand Total			5,796,497.79	695,268	4,043,812.04	695,268	(522,673.60)	115,623	658,294.98	115,623	(85,086.40)	4,094,347.03	244,921	1,474,361.44	244,921	(187,652.39)	

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Day Ahead and Real Time Energy

	Account Number	January 2023	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Day Ahead Non-Asset Energy	55500-0027	-																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Excessive Energy Amount	55500-0066	-																
Non-Excessive Energy Amount	55500-0068	-																
Real Time Non-Asset Energy	55500-0043	-																
Subtotal		-	2,991				-			79,078					120,142			

Day Ahead and Real Time Energy Loss

Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	5,833,815.41									418,083.04	-			-			-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	101,291.19									7,169.38	-			-			-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Real Time Distribution of Losses	55500-0041	(230,000.00)									-	(16,279.38)			-			-
Real Time Financial Bilateral Transaction Loss	55500-0038	-									-	-			-			-
Subtotal		5,705,106.60	2,991	-	2,991	-	-	-	-	-	79,078	425,252.43	79,078	(16,279.38)	120,142	-	120,142	-
Virtual Energy																		
Day Ahead Virtual Energy	55500-0030	-																
Real Time Virtual Energy	55500-0049	-																
Subtotal		-	2,991	-	2,991	-	-	-	-	-	79,078	-	79,078	-	120,142	-	120,142	-

Schedule 16 & 17 1/

Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00									10,192.31	-			-			-
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00									1,061.70	-			-			-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00									240.65	-			-			-
Subtotal		162,400.00	2,991	-	2,991	-	-	-	-	-	79,078	11,494.66	79,078	-	120,142	-	120,142	-

Congestion, FTRs & ARRs

Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	101,291.19									7,169.38	-			-			-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-									-	-			-			-
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)									-	(23,286.59)			-			-
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)									-	(3,397.44)			-			-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00									686.57	-			-			-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)									-	(6,370.19)			-			-
Financial Transmission Rights Hourly Allocation	55500-0032	-									-	-			-			-
Financial Transmission Rights Monthly Allocation	55500-0033	-									-	-			-			-
Financial Transmission Rights Yearly Allocation	55500-0035	-									-	-			-			-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-									-	-			-			-
FTR Guarantee Uplift Amount	55500-0055	-									-	-			-			-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-									-	-			-			-
Financial Transmission Rights Transaction	55500-0034	-									-	-			-			-
Subtotal		(356,008.81)	2,991	-	2,991	-	-	-	-	-	79,078	7,855.95	79,078	(33,054.22)	120,142	-	120,142	-

RSG & Make Whole Payments

Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00									1,769.50	-			-			-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)									-	(920.14)			-			-
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)									-	(353.90)			-			-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00									4,600.69	-			-			-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)									-	(1,274.04)			-			-
Subtotal		54,000.00	2,991	-	2,991	-	-	-	-	-	79,078	6,370.19	79,078	(2,548.08)	120,142	-	120,142	-

RNU & Misc Charges

Real Time Miscellaneous	55500-0042	-									-	-			-			-
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)									-	(141.56)			-			-
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00									13,448.18	-			-			-
Real Time Uninstructed Deviation	55500-0048	-									-	-			-			-
Demand Response Allocation Uplift Amount	55500-0077	9,000.00									637.02	-			-			-
Day Ahead Ramp Capability Amount	55500-0079	-									-	-			-			-
Real Time Ramp Capability Amount	55500-0080	-									-	-			-			-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00									920.14	-			-			-
Subtotal		210,000.00	2,991	-	2,991	-	-	-	-	-	79,078	15,005.34	79,078	(141.56)	120,142	-	120,142	-

Grandfathered Charge Types

Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-													-			-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-													-			-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-													-			-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-													-			-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-													-			-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-													-			-
Subtotal		-	2,991	-	2,991	-	-	-	-	-	79,078	-	79,078	-	120,142	-	120,142	-

ASM Charge Types (12 Other)

Day Ahead Regulation Amount	55500-0062	(64,000.00)									-	(4,529.91)			-			-
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)									-	(3,043.54)			-			-
Day Ahead Supplemental Reserve Amount	55500-0064	-									-	-			-			-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-	-			-			-
Net Regulation Adjustment Amount	55500-0068	-									-	-			-			-
Real Time Regulation Amount	55500-0070	17,000.00									1,203.26	-			-			-
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00									2,477.30	-			-			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00									1,627.94	-			-			-
Real Time Spinning Reserve Amount	55500-0072	7,000.00									495.46	-			-			-
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00									2,123.40	-			-			-
Real Time Supplemental Reserve Amount	55500-0074	-									-	-			-			-
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00									566.24	-			-			-
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)									-	(990.92)			-			-
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00									212.34	-			-			-
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00									1,344.82	-			-			-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-									-	-			-			-
Subtotal		21,000.00	2,991	-	2,991	-	-	-	-	-	79,078	10,050.75	79,078	(8,564.37)	120,142	-	120,142	-

Grand Total		5,796,497.79	2,991	-	2,991	-	-	-	-	-	79,078	476,029.32	79,078	(60,587.61)	120,142	-	120,142	-
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MINNESOTA POWER		Account	February 2023	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
	Day Ahead Non-Asset Energy	55500-0027	-									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
	Excessive Energy Amount	55500-0066	-									-				
22	Non-Excessive Energy Amount	55500-0069	-									-				
	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	629,579	0.00			109,646	-			-	171,680			
Day Ahead and Real Time Energy Loss																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,415,225.62		1,523,072.56		-		268,777.51		-	1,791,850.07		432,860.68		-
	Day Ahead Financial Bilateral Transaction Loss	55500-0022	86,767.57		54,576.80		-		9,631.20		-	64,208.00		15,664.96		-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(144,670.00)		-		(25,530.00)	(170,200.00)		-		(41,524.04)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
Subtotal			2,271,993.20	629,579	1,577,649.36	629,579	(144,670.00)	109,646	278,408.71	109,646	(25,530.00)	1,685,858.08	171,680	448,525.63	171,680	(41,524.04)
Virtual Energy																
27	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
Subtotal			-	629,579	-	629,579	-	109,646	-	109,646	-	-	171,680	-	171,680	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		90,576.00		-		15,984.00		-	106,560.00		25,997.66		-
	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,435.00		-		1,665.00		-	11,100.00		2,708.09		-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,138.60		-		377.40		-	2,516.00		613.83		-
Subtotal			162,400.00	629,579	102,149.60	629,579	-	109,646	18,026.40	109,646	-	120,176.00	171,680	29,319.58	171,680	-
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	86,767.57		54,576.80		-		9,631.20		-	64,208.00		15,664.96		-
	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
15	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(206,941.00)		-		(36,519.00)	(243,460.00)		-		(59,397.42)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(30,192.00)		-		(5,328.00)	(35,520.00)		-		(8,665.89)
28	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		6,101.30		-		1,076.70		-	7,178.00		1,751.23		-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(56,610.00)		-		(9,990.00)	(66,600.00)		-		(16,248.54)
30	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-
31	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-
	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
Subtotal			(370,532.43)	629,579	60,678.10	629,579	(293,743.00)	109,646	10,707.90	109,646	(51,837.00)	(274,194.00)	171,680	17,416.19	171,680	(84,311.85)
RSG & Make Whole Payments																
11	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		15,725.00		-		2,775.00		-	18,500.00		4,513.48		-
	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(8,177.00)		-		(1,443.00)	(9,620.00)		-		(2,347.01)
24	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,145.00)		-		(555.00)	(3,700.00)		-		(902.70)
	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		40,885.00		-		7,215.00		-	48,100.00		11,735.05		-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(11,322.00)		-		(1,998.00)	(13,320.00)		-		(3,249.71)
Subtotal			54,000.00	629,579	56,610.00	629,579	(22,644.00)	109,646	9,990.00	109,646	(3,996.00)	39,960.00	171,680	16,248.54	171,680	(6,499.41)
RNU & Misc Charges																
21	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-
	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-		(1,258.00)		-		(222.00)	(1,480.00)		-		(361.08)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		119,510.00		-		21,090.00		-	140,600.00		34,302.46		-
	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,661.00		-		999.00		-	6,660.00		1,624.85		-
	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		8,177.00		-		1,443.00		-	9,620.00		2,347.01		-
Subtotal			210,000.00	629,579	133,348.00	629,579	(1,258.00)	109,646	23,532.00	109,646	(222.00)	155,400.00	171,680	38,274.33	171,680	(361.08)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-	-		-		-
	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-	-		-		-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-	-		-		-
	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-	-		-		-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-	-		-		-
	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-	-		-		-
Subtotal			-	629,579	-	629,579	-	109,646	-	109,646	-	-	171,680	-	171,680	-
ASM Charge Types (12 Other)																
14	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(40,256.00)		-		(7,104.00)	(47,360.00)		-		(11,554.51)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(27,047.00)		-		(4,773.00)	(31,820.00)		-		(7,763.19)
20	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
26	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-
	Real Time Regulation Amount	55500-0070	17,000.00		10,693.00		-		1,887.00		-	12,580.00		3,069.17		-
33	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		22,015.00		-		3,885.00		-	25,900.00		6,318.87		-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		14,467.00		-		2,553.00		-	17,020.00		4,152.40		-
34	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,403.00		-		777.00		-	5,180.00		1,263.77		-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		18,870.00		-		3,330.00		-	22,200.00		5,416.18		-
35	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		5,032.00		-		888.00		-	5,920.00		1,444.31		-
36	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(8,806.00)		-		(1,554.00)	(10,360.00)		-		(2,527.55)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,887.00		-		333.00		-	2,220.00		541.62		-
37	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		11,951.00		-		2,109.00		-	14,060.00		3,430.25		-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-
Subtotal			21,000.00	629,579	89,318.00	629,579	(76,109.00)	109,646	15,762.00	109,646	(13,431.00)	15,540.00	171,680	25,636.58	171,680	(21,845.25)
Grand Total			2,348,860.77	629,579	2,019,753.07	629,579	(538,424.00)	109,646	356,427.01	109,646	(95,016.00)	1,742,740.08	171,680	575,420.84	171,680	(154,541.63)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

MINNESOTA POWER		Account	February 2023				MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION			Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		
Day Ahead and Real Time Energy																						
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																				
Day Ahead Non-Asset Energy	55500-0027	-																				
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																				
Excessive Energy Amount	55500-0066	-																				
Non-Excessive Energy Amount	55500-0069	-																				
Real Time Non-Asset Energy	55500-0043	-																				
Subtotal		-	247						-				75,561				94,536					
Day Ahead and Real Time Energy Loss																						
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,415,225.62												190,514.88		-		-		-		
Day Ahead Financial Bilateral Transaction Loss	55500-0022	86,767.57												6,894.61		-		-		-		
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-																		-		
Real Time Distribution of Losses	55500-0041	(230,000.00)														(18,275.96)		-		-		
Real Time Financial Bilateral Transaction Loss	55500-0038	-														-		-		-		
Subtotal		2,271,993.20	247	-	247	-	-	-	-	-	-	-	75,561	197,409.49	75,561	(18,275.96)	94,536	-	94,536	-		
Virtual Energy																						
Day Ahead Virtual Energy	55500-0030	-																				
Real Time Virtual Energy	55500-0049	-																				
Subtotal		-	247	-	247	-	-	-	-	-	-	-	75,561	-	75,561	-	94,536	-	94,536	-		
Schedule 16 & 17 1/																						
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00												11,442.34		-		-		-		
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00												1,191.91		-		-		-		
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00												270.17		-		-		-		
Subtotal		162,400.00	247	-	247	-	-	-	-	-	-	-	75,561	12,904.42	75,561	-	94,536	-	94,536	-		
Congestion, FTRs & ARRs																						
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-																		-		
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-																		-		
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	86,767.57												6,894.61		-		-		-		
Real Time Financial Bilateral Transaction Congestion	55500-0037	-																		-		
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)														(26,142.58)		-		-		
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)														(3,814.11)		-		-		
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00												770.77		-		-		-		
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)														(7,151.46)		-		-		
Financial Transmission Rights Hourly Allocation	55500-0032	-														-		-		-		
Financial Transmission Rights Monthly Allocation	55500-0033	-														-		-		-		
Financial Transmission Rights Yearly Allocation	55500-0035	-														-		-		-		
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-														-		-		-		
FTR Guarantee Uplift Amount	55500-0055	-														-		-		-		
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-														-		-		-		
Financial Transmission Rights Transaction	55500-0034	-														-		-		-		
Subtotal		(370,532.43)	247	-	247	-	-	-	-	-	-	-	75,561	7,665.38	75,561	(37,108.15)	94,536	-	94,536	-		
RSG & Make Whole Payments																						
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00												1,986.52		-		-		-		
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)														(1,032.99)		-		-		
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)														(397.30)		-		-		
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00												5,164.95		-		-		-		
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)														(1,430.29)		-		-		
Subtotal		54,000.00	247	-	247	-	-	-	-	-	-	-	75,561	7,151.46	75,561	(2,860.59)	94,536	-	94,536	-		
RNU & Misc Charges																						
Real Time Miscellaneous	55500-0042	-														-		-		-		
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)														(158.92)		-		-		
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00												15,097.54		-		-		-		
Real Time Uninstructed Deviation	55500-0048	-														-		-		-		
Demand Response Allocation Uplift Amount	55500-0077	9,000.00												715.15		-		-		-		
Day Ahead Ramp Capability Amount	55500-0079	-														-		-		-		
Real Time Ramp Capability Amount	55500-0080	-														-		-		-		
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00												1,032.99		-		-		-		
Subtotal		210,000.00	247	-	247	-	-	-	-	-	-	-	75,561	16,845.67	75,561	(158.92)	94,536	-	94,536	-		
Grandfathered Charge Types																						
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-																-		-		
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-																-		-		
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-																-		-		
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-																-		-		
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-																-		-		
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-																-		-		
Subtotal		-	247	-	247	-	-	-	-	-	-	-	75,561	-	75,561	-	94,536	-	94,536	-		
ASM Charge Types (12 Other)																						
Day Ahead Regulation Amount	55500-0062	(64,000.00)														(5,085.49)		-		-		
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)														(3,416.81)		-		-		
Day Ahead Supplemental Reserve Amount	55500-0064	-														-		-		-		
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-														-		-		-		
Net Regulation Adjustment Amount	55500-0068	-														-		-		-		
Real Time Regulation Amount	55500-0070	17,000.00												1,350.83		-		-		-		
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00												2,781.13		-		-		-		
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00												1,827.60		-		-		-		
Real Time Spinning Reserve Amount	55500-0072	7,000.00												556.23		-		-		-		
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00												2,383.82		-		-		-		
Real Time Supplemental Reserve Amount	55500-0074	-														-		-		-		
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00												635.69		-		-		-		
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)														(1,112.45)		-		-		
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00												238.38		-		-		-		
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00												1,509.75		-		-		-		
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-														-		-		-		
Subtotal		21,000.00	247	-	247	-	-	-	-	-	-	-	75,561	11,283.42	75,561	(9,614.75)	94,536	-	94,536	-		
Grand Total		2,348,860.77	247	-	247	-	-	-	-	-	-	-	75,561	253,259.85	75,561	(68,018.37)	94,536	-	94,536	-		

MINNESOTA POWER		Account	March 2023	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
5	Day Ahead Non-Asset Energy	55500-0027	-									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
14	Excessive Energy Amount	55500-0066	-									-				
	Non-Excessive Energy Amount	55500-0069	-									-				
22	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	671,977	0.00			117,008	-			-	225,567			
Day Ahead and Real Time Energy Loss																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	6,550,709.77		4,004,523.66	-		706,680.65	-			4,711,204.31	1,380,125.40			-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	65,142.04		39,866.93	-		7,035.34	-			46,902.27	13,684.75			-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-		-	-		-	-			-	-			-
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-	(140,760.00)		-	(24,840.00)			(165,600.00)	-			(48,317.38)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-		-	-			-	-			-
Subtotal			6,385,851.81	671,977	4,044,390.59	671,977	(140,760.00)	117,008	713,715.99	117,008	(24,840.00)	4,592,506.58	225,567	1,393,810.15	225,567	(48,317.38)
Virtual Energy																
12	Day Ahead Virtual Energy	55500-0030	-		-	-		-	-			-				
27	Real Time Virtual Energy	55500-0049	-		-	-		-	-			-				
Subtotal			-	671,977	-	671,977	-	117,008	-	117,008	-	-	225,567	-	225,567	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		88,128.00	-		15,552.00	-			103,680.00	30,250.88			-
19	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,180.00	-		1,620.00	-			10,800.00	3,151.13			-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,080.80	-		367.20	-			2,448.00	714.26			-
Subtotal			162,400.00	671,977	99,388.80	671,977	-	117,008	17,539.20	117,008	-	116,928.00	225,567	34,116.27	225,567	-
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-	-		-	-			-	-			-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-	-		-	-			-	-			-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	65,142.04		39,866.93	-		7,035.34	-			46,902.27	13,684.75			-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-	-		-	-			-	-			-
	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-	(201,348.00)		-	(35,532.00)			(236,880.00)	-			(69,114.85)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-	(29,376.00)		-	(5,184.00)			(34,560.00)	-			(10,083.63)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		5,936.40	-		1,047.60	-			6,984.00	2,037.73			-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-	(55,080.00)		-	(9,720.00)			(64,800.00)	-			(18,906.80)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-	-		-	-			-	-			-
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-	-		-	-			-	-			-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-	-		-	-			-	-			-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-	-		-	-			-	-			-
	FTR Guarantee Uplift Amount	55500-0055	-		-	-		-	-			-	-			-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-	-		-	-			-	-			-
31	Financial Transmission Rights Transaction	55500-0034	-		-	-		-	-			-	-			-
Subtotal			(392,157.96)	671,977	45,803.33	671,977	(285,804.00)	117,008	8,082.94	117,008	(50,436.00)	(282,353.73)	225,567	15,722.48	225,567	(98,105.28)
RSG & Make Whole Payments																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		15,300.00	-		2,700.00	-			18,000.00	5,251.89			-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-	(7,956.00)		-	(1,404.00)			(9,360.00)	-			(2,730.98)
	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-	(3,060.00)		-	(540.00)			(3,600.00)	-			(1,050.38)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		39,780.00	-		7,020.00	-			46,800.00	13,654.91			-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-	(11,016.00)		-	(1,944.00)			(12,960.00)	-			(3,781.36)
Subtotal			54,000.00	671,977	55,080.00	671,977	(22,032.00)	117,008	9,720.00	117,008	(3,888.00)	38,880.00	225,567	18,906.80	225,567	(7,562.72)
RNU & Misc Charges																
20	Real Time Miscellaneous	55500-0042	-		-	-		-	-			-	-			-
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-	(1,224.00)		-	(216.00)			(1,440.00)	-			(420.15)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		116,280.00	-		20,520.00	-			136,800.00	39,914.35			-
26	Real Time Uninstructed Deviation	55500-0048	-		-	-		-	-			-	-			-
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,508.00	-		972.00	-			6,480.00	1,890.68			-
33	Day Ahead Ramp Capability Amount	55500-0079	-		-	-		-	-			-	-			-
34	Real Time Ramp Capability Amount	55500-0080	-		-	-		-	-			-	-			-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		7,956.00	-		1,404.00	-			9,360.00	2,730.98			-
Subtotal			210,000.00	671,977	129,744.00	671,977	(1,224.00)	117,008	22,896.00	117,008	(216.00)	151,200.00	225,567	44,536.02	225,567	(420.15)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-	-		-	-			-	-			-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-	-		-	-			-	-			-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-	-		-	-			-	-			-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-	-		-	-			-	-			-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-	-		-	-			-	-			-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-	-		-	-			-	-			-
Subtotal			-	671,977	-	671,977	-	117,008	-	117,008	-	-	225,567	-	225,567	-
ASM Charge Types (12 Other)																
	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-	(39,168.00)		-	(6,912.00)			(46,080.00)	-			(13,444.83)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-	(26,316.00)		-	(4,644.00)			(30,960.00)	-			(9,033.25)
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-	-		-	-			-	-			-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-	-		-	-			-	-			-
	Net Regulation Adjustment Amount	55500-0068	-		-	-		-	-			-	-			-
	Real Time Regulation Amount	55500-0070	17,000.00		10,404.00	-		1,836.00	-			12,240.00	3,571.28			-
	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		21,420.00	-		3,780.00	-			25,200.00	7,352.64			-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		14,076.00	-		2,484.00	-			16,560.00	4,831.74			-
	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,284.00	-		756.00	-			5,040.00	1,470.53			-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		18,360.00	-		3,240.00	-			21,600.00	6,302.27			-
	Real Time Supplemental Reserve Amount	55500-0074	-		-	-		-	-			-	-			-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		4,896.00	-		864.00	-			5,760.00	1,680.60			-
	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-	(8,568.00)		-	(1,512.00)			(10,080.00)	-			(2,941.06)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,836.00	-		324.00	-			2,160.00	630.23			-
	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		11,628.00	-		2,052.00	-			13,680.00	3,991.44			-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-	-		-	-			-	-			-
Subtotal			21,000.00	671,977	86,904.00	671,977	(74,052.00)	117,008	15,336.00	117,008	(13,068.00)	15,120.00	225,567	29,830.73	225,567	(25,419.14)
Grand Total			6,441,093.85	671,977	4,461,310.72	671,977	(523,872.00)	117,008	787,290.13	117,008	(92,448.00)	4,632,280.85	225,567	1,536,922.45	225,567	(179,824.67)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

MINNESOTA POWER		Account Number	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales				
MISO MONTHLY ALLOCATION			March 2023	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																			
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																	
Day Ahead Non-Asset Energy	55500-0027	-																	
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																	
Excessive Energy Amount	55500-0066	-																	
Non-Excessive Energy Amount	55500-0068	-																	
Real Time Non-Asset Energy	55500-0043	-																	
Subtotal		-	2,448					-				75,081				101,408			
Day Ahead and Real Time Energy Loss																			
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	6,550,709.77																	
Day Ahead Financial Bilateral Transaction Loss	55500-0022	65,142.04										459,380.06	-			-			-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-										4,555.02	-			-			-
Real Time Distribution of Losses	55500-0041	(230,000.00)										-		(16,082.62)		-			-
Real Time Financial Bilateral Transaction Loss	55500-0038	-										-		-		-			-
Subtotal		6,385,851.81	2,448		-	2,448	-	-	-	-	-	75,081	463,935.08	75,081	(16,082.62)	101,408	-	101,408	-
Virtual Energy																			
Day Ahead Virtual Energy	55500-0030	-																	
Real Time Virtual Energy	55500-0049	-																	
Subtotal		-	2,448		-	2,448	-	-	-	-	-	75,081	-	75,081	-	101,408	-	101,408	-
Schedule 16 & 17 1/																			
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00										10,069.12	-			-			-
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00										1,048.87	-			-			-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00										237.74	-			-			-
Subtotal		162,400.00	2,448		-	2,448	-	-	-	-	-	75,081	11,355.73	75,081	-	101,408	-	101,408	-
Congestion, FTRs & ARRs																			
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-										-	-			-			-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-										-	-			-			-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	65,142.04										4,555.02	-			-			-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-										-	-			-			-
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)										-		(23,005.15)		-			-
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)										-		(3,356.37)		-			-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00										678.27	-			-			-
Distribution Amount	55500-0061	(90,000.00)										-		(6,293.20)		-			-
Financial Transmission Rights Hourly Allocation	55500-0032	-										-	-			-			-
Financial Transmission Rights Monthly Allocation	55500-0033	-										-	-			-			-
Financial Transmission Rights Yearly Allocation	55500-0035	-										-	-			-			-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-										-	-			-			-
FTR Guarantee Uplift Amount	55500-0055	-										-	-			-			-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-										-	-			-			-
Financial Transmission Rights Transaction	55500-0034	-										-	-			-			-
Subtotal		(392,157.96)	2,448		-	2,448	-	-	-	-	-	75,081	5,233.29	75,081	(32,654.72)	101,408	-	101,408	-
RSG & Make Whole Payments																			
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00										1,748.11	-			-			-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)										-		(909.02)		-			-
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)										-		(349.62)		-			-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00										4,545.09	-			-			-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)										-		(1,258.64)		-			-
Subtotal		54,000.00	2,448		-	2,448	-	-	-	-	-	75,081	6,293.20	75,081	(2,517.28)	101,408	-	101,408	-
RNU & Misc Charges																			
Real Time Miscellaneous	55500-0042	-										-	-			-			-
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)										-		(139.85)		-			-
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00										13,285.65	-			-			-
Demand Response Allocation Uplift Amount	55500-0048	-										-	-			-			-
Real Time Uninstructed Deviation	55500-0077	9,000.00										629.32	-			-			-
Day Ahead Ramp Capability Amount	55500-0079	-										-	-			-			-
Real Time Ramp Capability Amount	55500-0080	-										-	-			-			-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00										909.02	-			-			-
Subtotal		210,000.00	2,448		-	2,448	-	-	-	-	-	75,081	14,823.98	75,081	(139.85)	101,408	-	101,408	-
Grandfathered Charge Types																			
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-														-			-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-														-			-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-														-			-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-														-			-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-														-			-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-														-			-
Subtotal		-	2,448		-	2,448	-	-	-	-	-	75,081	-	75,081	-	101,408	-	101,408	-
ASM Charge Types (12 Other)																			
Day Ahead Regulation Amount	55500-0062	(64,000.00)										-		(4,475.17)		-			-
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)										-		(3,006.75)		-			-
Day Ahead Supplemental Reserve Amount	55500-0064	-										-	-			-			-
Contingency Reserve Deployment	55500-0065	-										-	-			-			-
Failure Charge Amount	55500-0068	-										-	-			-			-
Net Regulation Adjustment	55500-0070	17,000.00										1,188.72	-			-			-
Real Time Regulation Amount	55500-0071	35,000.00										2,447.36	-			-			-
Regulation Reserve Cost Distribution Amount	55500-0067	23,000.00										1,608.26	-			-			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0072	7,000.00										489.47	-			-			-
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00										2,097.73	-			-			-
Real Time Supplemental Reserve Amount	55500-0074	-										-	-			-			-
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00										559.40	-			-			-
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)										-		(978.94)		-			-
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00										209.77	-			-			-
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00										1,328.56	-			-			-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-										-	-			-			-
Subtotal		21,000.00	2,448		-	2,448	-	-	-	-	-	75,081	9,929.27	75,081	(8,460.86)	101,408	-	101,408	-
Grand Total		6,441,093.85	2,448		-	2,448	-	-	-	-	-	75,081	511,570.56	75,081	(59,855.33)	101,408	-	101,408	-

MINNESOTA POWER		Account	April 2023	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
5	Day Ahead Non-Asset Energy	55500-0027	-									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
14	Excessive Energy Amount	55500-0066	-									-				
	Non-Excessive Energy Amount	55500-0069	-									-				
22	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	602,304	0.00			105,505	-			-	204,134			
Day Ahead and Real Time Energy Loss																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	5,201,650.16		3,167,414.55		-		558,955.51		-	3,726,370.06		1,091,493.58		-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	48,023.59		29,390.44		-		5,186.55		-	34,576.98		9,948.54		-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-				-				-	-				-
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(140,760.00)		-		(24,840.00)	(165,600.00)		-		(47,646.67)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
Subtotal			5,019,673.75	602,304	3,196,804.98	602,304	(140,760.00)	105,505	564,142.06	105,505	(24,840.00)	3,595,347.04	204,134	1,101,442.11	204,134	(47,646.67)
Virtual Energy																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
Subtotal			-	602,304	-	602,304	-	105,505	-	105,505	-	-	204,134	-	204,134	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		88,128.00		-		15,552.00		-	103,680.00		29,830.96		-
19	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,180.00		-		1,620.00		-	10,800.00		3,107.39		-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,080.80		-		367.20		-	2,448.00		704.34		-
Subtotal			162,400.00	602,304	99,388.80	602,304	-	105,505	17,539.20	105,505	-	116,928.00	204,134	33,642.69	204,134	-
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	48,023.59		29,390.44		-		5,186.55		-	34,576.98		9,948.54		-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(201,348.00)		-		(35,532.00)	(236,880.00)		-		(68,155.46)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(29,376.00)		-		(5,184.00)	(34,560.00)		-		(9,943.65)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		5,936.40		-		1,047.60		-	6,984.00		2,009.45		-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(55,080.00)		-		(9,720.00)	(64,800.00)		-		(18,644.35)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-
	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
Subtotal			(409,276.41)	602,304	35,326.84	602,304	(285,804.00)	105,505	6,234.15	105,505	(50,436.00)	(294,679.02)	204,134	11,957.99	204,134	(96,743.46)
RSG & Make Whole Payments																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		15,300.00		-		2,700.00		-	18,000.00		5,178.99		-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(7,956.00)		-		(1,404.00)	(9,360.00)		-		(2,693.07)
	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,060.00)		-		(540.00)	(3,600.00)		-		(1,035.80)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		39,780.00		-		7,020.00		-	46,800.00		13,465.36		-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(11,016.00)		-		(1,944.00)	(12,960.00)		-		(3,728.87)
Subtotal			54,000.00	602,304	55,080.00	602,304	(22,032.00)	105,505	9,720.00	105,505	(3,888.00)	38,880.00	204,134	18,644.35	204,134	(7,457.74)
RNU & Misc Charges																
20	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-		(1,224.00)		-		(216.00)	(1,440.00)		-		(414.32)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		116,280.00		-		20,520.00		-	136,800.00		39,360.29		-
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,508.00		-		972.00		-	6,480.00		1,864.43		-
33	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		7,956.00		-		1,404.00		-	9,360.00		2,693.07		-
Subtotal			210,000.00	602,304	129,744.00	602,304	(1,224.00)	105,505	22,896.00	105,505	(216.00)	151,200.00	204,134	43,917.80	204,134	(414.32)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-	-		-		-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-	-		-		-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-	-		-		-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-	-		-		-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-	-		-		-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-	-		-		-
Subtotal			-	602,304	-	602,304	-	105,505	-	105,505	-	-	204,134	-	204,134	-
ASM Charge Types (12 Other)																
	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(39,168.00)		-		(6,912.00)	(46,080.00)		-		(13,258.20)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(26,316.00)		-		(4,644.00)	(30,960.00)		-		(8,907.86)
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-
	Real Time Regulation Amount	55500-0070	17,000.00		10,404.00		-		1,836.00		-	12,240.00		3,521.71		-
	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		21,420.00		-		3,780.00		-	25,200.00		7,250.58		-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		14,076.00		-		2,484.00		-	16,560.00		4,764.67		-
	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,284.00		-		756.00		-	5,040.00		1,450.12		-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		18,360.00		-		3,240.00		-	21,600.00		6,214.78		-
	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		4,896.00		-		864.00		-	5,760.00		1,657.28		-
	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(8,568.00)		-		(1,512.00)	(10,080.00)		-		(2,900.23)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,836.00		-		324.00		-	2,160.00		621.48		-
	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		11,628.00		-		2,052.00		-	13,680.00		3,936.03		-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-
Subtotal			21,000.00	602,304	86,904.00	602,304	(74,052.00)	105,505	15,336.00	105,505	(13,068.00)	15,120.00	204,134	29,416.64	204,134	(25,066.29)
Grand Total			5,057,797.34	602,304	3,603,248.62	602,304	(523,872.00)	105,505	635,867.40	105,505	(92,448.00)	3,622,796.02	204,134	1,239,021.59	204,134	(177,328.48)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

MINNESOTA POWER		Account Number	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales				
MISO Monthly Allocation			April 2023	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																			
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																	
Day Ahead Non-Asset Energy	55500-0027	-																	
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																	
Excessive Energy Amount	55500-0066	-																	
Non-Excessive Energy Amount	55500-0069	-																	
Real Time Non-Asset Energy	55500-0043	-																	
Subtotal		-	7,381					-			71,777				102,006				
Day Ahead and Real Time Energy Loss																			
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	5,201,650.16																	
Day Ahead Financial Bilateral Transaction Loss	55500-0022	48,023.59										383,786.53	-			-			-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-										3,498.06	-			-			-
Real Time Distribution of Losses	55500-0041	(230,000.00)										-	-	(16,753.33)		-			-
Real Time Financial Bilateral Transaction Loss	55500-0038	-										-	-			-			-
Subtotal		5,019,673.75	7,381	-	7,381	-	-	-	-	-	71,777	387,284.59	71,777	(16,753.33)	102,006	-	102,006	-	-
Virtual Energy																			
Day Ahead Virtual Energy	55500-0030	-																	
Real Time Virtual Energy	55500-0049	-																	
Subtotal		-	7,381	-	7,381	-	-	-	-	-	71,777	-	71,777	-	102,006	-	102,006	-	-
Schedule 16 & 17 1/																			
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00										10,489.04	-			-			-
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00										1,092.61	-			-			-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00										247.66	-			-			-
Subtotal		162,400.00	7,381	-	7,381	-	-	-	-	-	71,777	11,829.31	71,777	-	102,006	-	102,006	-	-
Congestion, FTRs & ARRs																			
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-										-	-			-			-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-										-	-			-			-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	48,023.59										3,498.06	-			-			-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-										-	-			-			-
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)										-	(23,964.54)			-			-
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)										-	(3,496.35)			-			-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00										706.55	-			-			-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)										-	(6,555.65)			-			-
Financial Transmission Rights Hourly Allocation	55500-0032	-										-	-			-			-
Financial Transmission Rights Monthly Allocation	55500-0033	-										-	-			-			-
Financial Transmission Rights Yearly Allocation	55500-0035	-										-	-			-			-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-										-	-			-			-
FTR Guarantee Uplift Amount	55500-0055	-										-	-			-			-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-										-	-			-			-
Financial Transmission Rights Transaction	55500-0034	-										-	-			-			-
Subtotal		(409,276.41)	7,381	-	7,381	-	-	-	-	-	71,777	4,204.62	71,777	(34,016.54)	102,006	-	102,006	-	-
RSG & Make Whole Payments																			
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00										1,821.01	-			-			-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)										-	(946.93)			-			-
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)										-	(364.20)			-			-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00										4,734.64	-			-			-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)										-	(1,311.13)			-			-
Subtotal		54,000.00	7,381	-	7,381	-	-	-	-	-	71,777	6,555.65	71,777	(2,622.26)	102,006	-	102,006	-	-
RNU & Misc Charges																			
Real Time Miscellaneous	55500-0042	-										-	-			-			-
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)										-	(145.68)			-			-
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00										13,839.71	-			-			-
Real Time Uninstructed Deviation	55500-0048	-										-	-			-			-
Demand Response Allocation Uplift Amount	55500-0077	9,000.00										655.57	-			-			-
Day Ahead Ramp Capability Amount	55500-0079	-										-	-			-			-
Real Time Ramp Capability Amount	55500-0080	-										-	-			-			-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00										946.93	-			-			-
Subtotal		210,000.00	7,381	-	7,381	-	-	-	-	-	71,777	15,442.20	71,777	(145.68)	102,006	-	102,006	-	-
Grandfathered Charge Types																			
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-														-			-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-														-			-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-														-			-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-														-			-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-														-			-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-														-			-
Subtotal		-	7,381	-	7,381	-	-	-	-	-	71,777	-	71,777	-	102,006	-	102,006	-	-
ASM Charge Types (12 Other)																			
Day Ahead Regulation Amount	55500-0062	(64,000.00)										-	(4,661.80)			-			-
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)										-	(3,132.14)			-			-
Day Ahead Supplemental Reserve Amount	55500-0064	-										-	-			-			-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-										-	-			-			-
Net Regulation Adjustment Amount	55500-0068	-										-	-			-			-
Real Time Regulation Amount	55500-0070	17,000.00										1,238.29	-			-			-
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00										2,549.42	-			-			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00										1,675.33	-			-			-
Real Time Spinning Reserve Amount	55500-0072	7,000.00										509.88	-			-			-
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00										2,185.22	-			-			-
Real Time Supplemental Reserve Amount	55500-0074	-										-	-			-			-
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00										582.72	-			-			-
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)										-	(1,019.77)			-			-
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00										218.52	-			-			-
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00										1,383.97	-			-			-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-										-	-			-			-
Subtotal		21,000.00	7,381	-	7,381	-	-	-	-	-	71,777	10,343.36	71,777	(8,813.71)	102,006	-	102,006	-	-
Grand Total		5,057,797.34	7,381	-	7,381	-	-	-	-	-	71,777	435,659.73	71,777	(62,351.52)	102,006	-	102,006	-	-

MINNESOTA POWER		Account										Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	May 2023	FPE Retail				FAC Resale				Cost/(Revenue)				
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
18	Day Ahead Non-Asset Energy	55500-0027	-									-				
5																
	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
13a		55500-0066	-									-				
	Excessive Energy Amount	55500-0069	-									-				
22	Non-Excessive Energy Amount	55500-0069	-									-				
	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	613,243	0.00			104,904	-			-	326,791			
Day Ahead and Real Time Energy Loss																
	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,342,375.82		1,824,727.92		-		322,010.81		-	2,146,738.73		982,090.72		-
10	Day Ahead Financial Bilateral Transaction Loss	55500-0022	49,958.34		27,177.34		-		4,796.00		-	31,973.34		14,772.80		-
3																
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
13c		55500-0041	(230,000.00)		-		(125,120.00)		-		(22,080.00)	(147,200.00)		-		(68,011.53)
	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
16																
Subtotal			3,162,334.16	613,243	1,851,905.26	613,243	(125,120.00)	104,904	326,806.81	104,904	(22,080.00)	2,031,512.07	326,791	996,863.51	326,791	(68,011.53)
Virtual Energy																
	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
12																
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
Subtotal			-	613,243	-	613,243	-	104,904	-	104,904	-	-	326,791	-	326,791	-
Schedule 16 & 17 - 1/																
	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		78,336.00		-		13,824.00		-	92,160.00		42,581.13		-
4	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		8,160.00		-		1,440.00		-	9,600.00		4,435.53		-
19	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		1,849.60		-		326.40		-	2,176.00		1,005.39		-
Subtotal			162,400.00	613,243	88,345.60	613,243	-	104,904	15,590.40	104,904	-	103,936.00	326,791	48,022.06	326,791	-
Congestion, FTRs & ARRs																
	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
1b																
	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
13b																
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	49,958.34		27,177.34		-		4,796.00		-	31,973.34		14,772.80		-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(178,976.00)		-		(31,584.00)	(210,560.00)		-		(97,286.06)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(26,112.00)		-		(4,608.00)	(30,720.00)		-		(14,193.71)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		5,276.80		-		931.20		-	6,208.00		2,868.31		-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(48,960.00)		-		(8,640.00)	(57,600.00)		-		(26,613.21)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-
	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
Subtotal			(407,341.66)	613,243	32,454.14	613,243	(254,048.00)	104,904	5,727.20	104,904	(44,832.00)	(260,698.66)	326,791	17,641.11	326,791	(138,092.98)
RSG & Make Whole Payments																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		13,600.00		-		2,400.00		-	16,000.00		7,392.56		-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(7,072.00)		-		(1,248.00)	(8,320.00)		-		(3,844.13)
	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(2,720.00)		-		(480.00)	(3,200.00)		-		(1,478.51)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		35,360.00		-		6,240.00		-	41,600.00		19,220.65		-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(9,792.00)		-		(1,728.00)	(11,520.00)		-		(5,322.64)
Subtotal			54,000.00	613,243	48,960.00	613,243	(19,584.00)	104,904	8,640.00	104,904	(3,456.00)	34,560.00	326,791	26,613.21	326,791	(10,645.28)
RNU & Misc Charges																
20	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-		(1,088.00)		-		(192.00)	(1,280.00)		-		(591.40)
	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		103,360.00		-		18,240.00		-	121,600.00		56,183.44		-
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		4,896.00		-		864.00		-	5,760.00		2,661.32		-
27	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		7,072.00		-		1,248.00		-	8,320.00		3,844.13		-
Subtotal			210,000.00	613,243	115,328.00	613,243	(1,088.00)	104,904	20,352.00	104,904	(192.00)	134,400.00	326,791	62,688.89	326,791	(591.40)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-	-		-		-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-	-		-		-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-	-		-		-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-	-		-		-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-	-		-		-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-	-		-		-
Subtotal			-	613,243	-	613,243	-	104,904	-	104,904	-	-	326,791	-	326,791	-
ASM Charge Types (12 Other)																
	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(34,816.00)		-		(6,144.00)	(40,960.00)		-		(18,924.95)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(23,392.00)		-		(4,128.00)	(27,520.00)		-		(12,715.20)
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-
	Real Time Regulation Amount	55500-0070	17,000.00		9,248.00		-		1,632.00		-	10,880.00		5,026.94		-
	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		19,040.00		-		3,360.00		-	22,400.00		10,349.58		-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		12,512.00		-		2,208.00		-	14,720.00		6,801.15		-
	Real Time Spinning Reserve Amount	55500-0072	7,000.00		3,808.00		-		672.00		-	4,480.00		2,069.92		-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		16,320.00		-		2,880.00		-	19,200.00		8,871.07		-
	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		4,352.00		-		768.00		-	5,120.00		2,365.62		-
	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(7,616.00)		-		(1,344.00)	(8,960.00)		-		(4,139.83)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,632.00		-		288.00		-	1,920.00		887.11		-
	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		10,336.00		-		1,824.00		-	12,160.00		5,618.34		-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-
Subtotal			21,000.00	613,243	77,248.00	613,243	(65,824.00)	104,904	13,632.00	104,904	(11,616.00)	13,440.00	326,791	41,989.73	326,791	(35,779.98)
Grand Total			3,202,392.50	613,243	2,214,241.00	613,243	(465,664.00)	104,904	390,748.41	104,904	(82,176.00)	2,057,149.41	326,791	1,193,818.51	326,791	(253,121.18)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 5

MINNESOTA POWER		Account																
MISO MONTHLY ALLOCATION			Number	May 2023	MISO - Liquidation		Others - Liquidation		Others - Non-Liquidation		Contract Sales							
Day Ahead and Real Time Energy					Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Day Ahead Non-Asset Energy	55500-0027	-																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Excessive Energy Amount	55500-0066	-																
Non-Excessive Energy Amount	55500-0069	-																
Real Time Non-Asset Energy	55500-0043	-																
Subtotal		-	23,476							71,058					96,642			
Day Ahead and Real Time Energy Loss																		
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,342,375.82																
Day Ahead Financial Bilateral Transaction Loss	55500-0022	49,958.34																
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-																
Real Time Distribution of Losses	55500-0041	(230,000.00)																
Real Time Financial Bilateral Transaction Loss	55500-0038	-																
Subtotal		3,162,334.16	23,476		23,476					71,058	216,758.57	71,058	(14,788.47)	96,642		96,642		
Virtual Energy																		
Day Ahead Virtual Energy	55500-0030	-																
Real Time Virtual Energy	55500-0049	-																
Subtotal		-	23,476		23,476					71,058		71,058		96,642		96,642		
Schedule 16 & 17 - 1/																		
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00																
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00																
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00																
Subtotal		162,400.00	23,476		23,476					71,058	10,441.94	71,058		96,642		96,642		
Congestion, FTRs & ARRs																		
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-																
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-																
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	49,958.34																
Real Time Financial Bilateral Transaction Congestion	55500-0037	-																
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)																
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)																
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00																
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)																
Financial Transmission Rights Hourly Allocation	55500-0032	-																
Financial Transmission Rights Monthly Allocation	55500-0033	-																
Financial Transmission Rights Yearly Allocation	55500-0035	-																
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-																
FTR Guarantee Uplift Amount	55500-0055	-																
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-																
Financial Transmission Rights Transaction	55500-0034	-																
Subtotal		(407,341.66)	23,476		23,476					71,058	3,835.89	71,058	(30,027.02)	96,642		96,642		
RSG & Make Whole Payments																		
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00																
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)																
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)																
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00																
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)																
Subtotal		54,000.00	23,476		23,476					71,058	5,786.79	71,058	(2,314.72)	96,642		96,642		
RNU & Misc Charges																		
Real Time Miscellaneous	55500-0042	-																
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)																
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00																
Real Time Uninstructed Deviation	55500-0048	-																
Demand Response Allocation Uplift Amount	55500-0077	9,000.00																
Day Ahead Ramp Capability Amount	55500-0079	-																
Real Time Ramp Capability Amount	55500-0080	-																
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00																
Subtotal		210,000.00	23,476		23,476					71,058	13,631.11	71,058	(128.60)	96,642		96,642		
Grandfathered Charge Types																		
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-																
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-																
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-																
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-																
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-																
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-																
Subtotal		-	23,476		23,476					71,058		71,058		96,642		96,642		
ASM Charge Types (12 Other)																		
Day Ahead Regulation Amount	55500-0062	(64,000.00)																
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)																
Day Ahead Supplemental Reserve Amount	55500-0064	-																
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-																
Net Regulation Adjustment Amount	55500-0068	-																
Real Time Regulation Amount	55500-0070	17,000.00																
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00																
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00																
Real Time Spinning Reserve Amount	55500-0072	7,000.00																
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00																
Real Time Supplemental Reserve Amount	55500-0074	-																
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00																
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)																
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00																
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00																
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-																
Subtotal		21,000.00	23,476		23,476					71,058	9,130.27	71,058	(7,780.02)	96,642		96,642		
Grand Total		3,202,392.50	23,476		23,476					71,058	259,584.58	71,058	(55,038.82)	96,642		96,642		

MINNESOTA POWER		Account	June 2023	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
5	Day Ahead Non-Asset Energy	55500-0027	-									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
14	Excessive Energy Amount	55500-0066	-									-				
	Non-Excessive Energy Amount	55500-0069	-									-				
22	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	604,573	0.00			104,764	-			-	216,633			
Day Ahead and Real Time Energy Loss																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	4,604,855.27		2,767,333.65		-	488,353.00	-			3,255,686.65	1,004,850.34			-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	39,671.78		23,941.92		-	4,225.04	-			28,166.96	8,568.70			-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-				-				-	-				-
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(138,805.00)	-		(24,495.00)		(163,300.00)	-			(49,677.64)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-	-		-		-	-			-
Subtotal			4,414,527.05	604,573	2,791,275.57	604,573	(138,805.00)	104,764	492,578.04	104,764	(24,495.00)	3,120,553.61	216,633	1,013,419.04	216,633	(49,677.64)
Virtual Energy																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
Subtotal			-	604,573	-	604,573	-	104,764	-	104,764	-	-	216,633	-	216,633	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		86,904.00		-	15,336.00	-			102,240.00	31,102.52			-
19	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,052.50		-	1,597.50	-			10,650.00	3,239.85			-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,051.90		-	362.10	-			2,414.00	734.37			-
Subtotal			162,400.00	604,573	98,008.40	604,573	-	104,764	17,295.60	104,764	-	115,304.00	216,633	35,076.74	216,633	-
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-	-		-		-	-			-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-	-		-		-	-			-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	39,671.78		23,941.92		-	4,225.04	-			28,166.96	8,568.70			-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-	-		-		-	-			-
	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(198,551.50)	-		(35,038.50)		(233,590.00)	-			(71,060.63)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(28,968.00)	-		(5,112.00)		(34,080.00)	-			(10,367.51)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		5,853.95		-	1,033.05	-			6,887.00	2,095.10			-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(54,315.00)	-		(9,585.00)		(63,900.00)	-			(19,439.08)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-	-		-		-	-			-
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-	-		-		-	-			-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-	-		-		-	-			-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-	-		-		-	-			-
	FTR Guarantee Uplift Amount	55500-0055	-		-		-	-		-		-	-			-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-	-		-		-	-			-
31	Financial Transmission Rights Transaction	55500-0034	-		-		-	-		-		-	-			-
Subtotal			(417,628.22)	604,573	29,795.87	604,573	(281,834.50)	104,764	5,258.09	104,764	(49,735.50)	(296,516.04)	216,633	10,663.80	216,633	(100,867.22)
RSG & Make Whole Payments																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		15,087.50		-	2,662.50	-			17,750.00	5,399.74			-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(7,845.50)	-		(1,384.50)		(9,230.00)	-			(2,807.87)
	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,017.50)	-		(532.50)		(3,550.00)	-			(1,079.95)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		39,227.50		-	6,922.50	-			46,150.00	14,039.33			-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(10,863.00)	-		(1,917.00)		(12,780.00)	-			(3,887.82)
Subtotal			54,000.00	604,573	54,315.00	604,573	(21,726.00)	104,764	9,585.00	104,764	(3,834.00)	38,340.00	216,633	19,439.08	216,633	(7,775.63)
RNU & Misc Charges																
20	Real Time Miscellaneous	55500-0042	-		-		-	-		-		-	-			-
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)				(1,207.00)			(213.00)		(1,420.00)				(431.98)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		114,665.00		-	20,235.00	-			134,900.00	41,038.05			-
26	Real Time Uninstructed Deviation	55500-0048	-		-		-	-		-		-	-			-
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,431.50		-	958.50	-			6,390.00	1,943.91			-
33	Day Ahead Ramp Capability Amount	55500-0079	-		-		-	-		-		-	-			-
34	Real Time Ramp Capability Amount	55500-0080	-		-		-	-		-		-	-			-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		7,845.50		-	1,384.50	-			9,230.00	2,807.87			-
Subtotal			210,000.00	604,573	127,942.00	604,573	(1,207.00)	104,764	22,578.00	104,764	(213.00)	149,100.00	216,633	45,789.83	216,633	(431.98)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-									-				
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-									-				
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-									-				
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-									-				
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-									-				
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-									-				
Subtotal			-	604,573	-	604,573	-	104,764	-	104,764	-	-	216,633	-	216,633	-
ASM Charge Types (12 Other)																
	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(38,624.00)	-		(6,816.00)		(45,440.00)	-			(13,823.34)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(25,950.50)	-		(4,579.50)		(30,530.00)	-			(9,287.56)
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-	-		-		-	-			-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-	-		-		-	-			-
	Net Regulation Adjustment Amount	55500-0068	-		-		-	-		-		-	-			-
	Real Time Regulation Amount	55500-0070	17,000.00		10,259.50		-	1,810.50	-			12,070.00	3,671.83			-
	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		21,122.50		-	3,727.50	-			24,850.00	7,559.64			-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		13,880.50		-	2,449.50	-			16,330.00	4,967.76			-
	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,224.50		-	745.50	-			4,970.00	1,511.93			-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		18,105.00		-	3,195.00	-			21,300.00	6,479.69			-
	Real Time Supplemental Reserve Amount	55500-0074	-		-		-	-		-		-	-			-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		4,828.00		-	852.00	-			5,680.00	1,727.92			-
	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(8,449.00)	-		(1,491.00)		(9,940.00)	-			(3,023.86)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,810.50		-	319.50	-			2,130.00	647.97			-
	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		11,466.50		-	2,023.50	-			13,490.00	4,103.81			-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-	-		-		-	-			-
Subtotal			21,000.00	604,573	85,697.00	604,573	(73,023.50)	104,764	15,123.00	104,764	(12,886.50)	14,910.00	216,633	30,670.55	216,633	(26,134.76)
Grand Total			4,444,298.83	604,573	3,187,033.84	604,573	(516,596.00)	104,764	562,417.74	104,764	(91,164.00)	3,141,691.58	216,633	1,155,059.02	216,633	(184,887.23)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

MINNESOTA POWER		Account Number	June 2023				MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO Monthly Allocation			Number	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue			
Day Ahead and Real Time Energy																						
Day Ahead Asset Energy			44700-0000 or 55500-0000 or 55500-0050	-																		
Day Ahead Non-Asset Energy			55500-0027	-																		
Real Time Asset Energy			44700-0000 or 55500-0000 or 55500-0050	-																		
Excessive Energy Amount			55500-0066	-																		
Non-Excessive Energy Amount			55500-0069	-																		
Real Time Non-Asset Energy			55500-0043	-																		
Subtotal				-	6,488			-				74,231				90,477						
Day Ahead and Real Time Energy Loss																						
Day Ahead Loss			44700-0000 or 55500-0000 or 55500-0050	4,604,855.27									344,318.28		-		-		-			
Day Ahead Financial Bilateral Transaction Loss			55500-0022	39,671.78									2,936.12		-		-		-			
Real Time Loss			44700-0000 or 55500-0000 or 55500-0050	-									-		-		-		-			
Real Time Distribution of Losses			55500-0041	(230,000.00)									-		(17,022.36)		-		-			
Real Time Financial Bilateral Transaction Loss			55500-0038	-									-		-		-		-			
Subtotal				4,414,527.05	6,488	-	6,488	-	-	-	-	74,231	347,254.40	74,231	(17,022.36)	90,477	-	90,477	-			
Virtual Energy																						
Day Ahead Virtual Energy			55500-0030	-																		
Real Time Virtual Energy			55500-0049	-																		
Subtotal				-	6,488	-	6,488	-	-	-	-	74,231	-	74,231	-	90,477	-	90,477	-			
Schedule 16 & 17 1/																						
Day Ahead Market Administration (Schedule 17)			55500-0020	144,000.00									10,657.48		-		-		-			
Real Time Market Administration (Schedule 17)			55500-0036	15,000.00									1,110.15		-		-		-			
Financial Transmission Rights Market Administration (Schedule 16)			55500-0031	3,400.00									251.63		-		-		-			
Subtotal				162,400.00	6,488	-	6,488	-	-	-	-	74,231	12,019.26	74,231	-	90,477	-	90,477	-			
Congestion, FTRs & ARRs																						
Day Ahead Congestion			44700-0000 or 55500-0000 or 55500-0050	-									-		-		-		-			
Real Time Congestion			44700-0000 or 55500-0000 or 55500-0050	-									-		-		-		-			
Day Ahead Financial Bilateral Transaction Congestion			55500-0021	39,671.78									2,936.12		-		-		-			
Real Time Financial Bilateral Transaction Congestion			55500-0037	-									-		-		-		-			
Auction Revenue Rights Transaction Amount			55500-0058	(329,000.00)									-		(24,349.37)		-		-			
Financial Transmission Rights Annual Transaction Amount			55500-0059	(48,000.00)									-		(3,552.48)		-		-			
Auction Revenue Rights Infeasible Uplift Amount			55500-0060	9,700.00									717.90		-		-		-			
Distribution Amount			55500-0061	(90,000.00)									-		(6,660.92)		-		-			
Financial Transmission Rights Hourly Allocation			55500-0032	-									-		-		-		-			
Financial Transmission Rights Monthly Allocation			55500-0033	-									-		-		-		-			
Financial Transmission Rights Yearly Allocation			55500-0035	-									-		-		-		-			
Financial Transmission Rights Full Funding Guarantee Amount			55500-0054	-									-		-		-		-			
FTR Guarantee Uplift Amount			55500-0055	-									-		-		-		-			
Financial Transmission Rights Monthly Transaction Amount			55500-0056	-									-		-		-		-			
Financial Transmission Rights Transaction			55500-0034	-									-		-		-		-			
Subtotal				(417,628.22)	6,488	-	6,488	-	-	-	-	74,231	3,654.02	74,231	(34,562.78)	90,477	-	90,477	-			
RSG & Make Whole Payments																						
Day Ahead Revenue Sufficiency Guarantee Distribution			55500-0028	25,000.00									1,850.26		-		-		-			
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment			55500-0029	(13,000.00)									-		(962.13)		-		-			
Real Time Price Volatility Make Whole Payment			55500-0057	(5,000.00)									-		(370.05)		-		-			
Real Time Revenue Sufficiency Guarantee First Pass Dist			55500-0046	65,000.00									4,810.67		-		-		-			
Real Time Revenue Sufficiency Guarantee Make Whole Payment			55500-0047	(18,000.00)									-		(1,332.18)		-		-			
Subtotal				54,000.00	6,488	-	6,488	-	-	-	-	74,231	6,660.92	74,231	(2,664.37)	90,477	-	90,477	-			
RNU & Misc Charges																						
Real Time Miscellaneous			55500-0042	-									-		-		-		-			
Real Time Net Inadvertent Distribution			55500-0044	(2,000.00)											(148.02)		-		-			
Real Time Revenue Neutrality Uplift Amount			55500-0045	190,000.00									14,061.95		-		-		-			
Real Time Uninstructed Deviation			55500-0048	-									-		-		-		-			
Demand Response Allocation Uplift Amount			55500-0077	9,000.00									666.09		-		-		-			
Day Ahead Ramp Capability Amount			55500-0079	-									-		-		-		-			
Real Time Ramp Capability Amount			55500-0080	-									-		-		-		-			
Real Time Schedule 49 Cost Distribution Amount			55500-0081	13,000.00									962.13		-		-		-			
Subtotal				210,000.00	6,488	-	6,488	-	-	-	-	74,231	15,690.17	74,231	(148.02)	90,477	-	90,477	-			
Grandfathered Charge Types																						
Day Ahead Congestion Rebate on Carve-Out Grandfathered			55500-0023	-													-		-			
Day Ahead Losses Rebate on Carve-Out Grandfathered			55500-0024	-													-		-			
Day Ahead Congestion Rebate on Option B Grandfathered			55500-0025	-													-		-			
Day Ahead Losses Rebate on Option B Grandfathered			55500-0026	-													-		-			
Real Time Losses Rebate on Carve-Out Grandfathered			55500-0040	-													-		-			
Real Time Congestion Rebate on Carve-Out Grandfathered			55500-0039	-													-		-			
Subtotal				-	6,488	-	6,488	-	-	-	-	74,231	-	74,231	-	90,477	-	90,477	-			
ASM Charge Types (12 Other)																						
Day Ahead Regulation Amount			55500-0062	(64,000.00)									-		(4,736.66)		-		-			
Day Ahead Spinning Reserve Amount			55500-0063	(43,000.00)									-		(3,182.44)		-		-			
Day Ahead Supplemental Reserve Amount			55500-0064	-									-		-		-		-			
Contingency Reserve Deployment Failure Charge Amount			55500-0065	-									-		-		-		-			
Net Regulation Adjustment Amount			55500-0068	-									-		-		-		-			
Real Time Regulation Amount			55500-0070	17,000.00									1,258.17		-		-		-			
Regulation Reserve Cost Distribution Amount			55500-0071	35,000.00									2,590.36		-		-		-			
Real-Time Excessive Deficient Deployment Charge Amount			55500-0067	23,000.00									1,702.24		-		-		-			
Real Time Spinning Reserve Amount			55500-0072	7,000.00									518.07		-		-		-			
Spinning Reserve Cost Distribution Amount			55500-0073	30,000.00									2,220.31		-		-		-			
Real Time Supplemental Reserve Amount			55500-0074	-									-		-		-		-			
Supplemental Reserve Cost Distribution Amount			55500-0075	8,000.00									592.08		-		-		-			
Day Ahead Short-Term Reserve Amount			55500-0082	(14,000.00)									-		(1,036.14)		-		-			
Real-Time Short-Term Reserve Amount			55500-0083	3,000.00									222.03		-		-		-			
Short-Term Reserve Cost Distribution Amount			55500-0084	19,000.00									1,406.19		-		-		-			
Short-Term Reserve Deployment Failure Charge Amount			55500-0085	-									-		-		-		-			
Subtotal				21,000.00	6,488	-	6,488	-	-	-	-	74,231	10,509.45	74,231	(8,955.24)	90,477	-	90,477	-			
Grand Total				4,444,298.83	6,488	-	6,488	-	-	-	-	74,231	395,788.23	74,231	(63,352.77)	90,477	-	90,477	-			

MINNESOTA POWER		Account	July 2023	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
5	Day Ahead Non-Asset Energy	55500-0027	-									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
14	Excessive Energy Amount	55500-0066	-									-				
	Non-Excessive Energy Amount	55500-0069	-									-				
22	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	645,484	0.00			113,074	-			-	176,129			
Day Ahead and Real Time Energy Loss																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	4,726,521.11		2,987,190.03		-		527,151.18		-	3,514,341.21		830,234.13		-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	45,451.86		28,589.22		-		5,045.16		-	33,634.38		8,093.91		-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(144,670.00)		-		(25,530.00)	(170,200.00)		-		(40,957.62)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
Subtotal			4,541,972.97	645,484	3,015,779.25	645,484	(144,670.00)	113,074	532,196.34	113,074	(25,530.00)	3,377,775.59	176,129	838,328.05	176,129	(40,957.62)
Virtual Energy																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
Subtotal			-	645,484	-	645,484	-	113,074	-	113,074	-	-	176,129	-	176,129	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		90,576.00		-		15,984.00		-	106,560.00		25,643.03		-
19	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,435.00		-		1,665.00		-	11,100.00		2,671.15		-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,138.60		-		377.40		-	2,516.00		605.46		-
Subtotal			162,400.00	645,484	102,149.60	645,484	-	113,074	18,026.40	113,074	-	120,176.00	176,129	28,919.64	176,129	-
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	45,451.86		28,589.22		-		5,045.16		-	33,634.38		8,093.91		-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(206,941.00)		-		(36,519.00)	(243,460.00)		-		(58,587.20)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(30,192.00)		-		(5,328.00)	(35,520.00)		-		(8,547.68)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		6,101.30		-		1,076.70		-	7,178.00		1,727.34		-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(56,610.00)		-		(9,990.00)	(66,600.00)		-		(16,026.89)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-
	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
Subtotal			(411,848.14)	645,484	34,690.52	645,484	(293,743.00)	113,074	6,121.86	113,074	(51,837.00)	(304,767.62)	176,129	9,821.26	176,129	(83,161.77)
RSG & Make Whole Payments																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		15,725.00		-		2,775.00		-	18,500.00		4,451.91		-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(8,177.00)		-		(1,443.00)	(9,620.00)		-		(2,315.00)
	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,145.00)		-		(555.00)	(3,700.00)		-		(890.38)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		40,885.00		-		7,215.00		-	48,100.00		11,574.98		-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(11,322.00)		-		(1,998.00)	(13,320.00)		-		(3,205.38)
Subtotal			54,000.00	645,484	56,610.00	645,484	(22,644.00)	113,074	9,990.00	113,074	(3,996.00)	39,960.00	176,129	16,026.89	176,129	(6,410.76)
RNU & Misc Charges																
20	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-		(1,258.00)		-		(222.00)	(1,480.00)		-		(356.15)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		119,510.00		-		21,090.00		-	140,600.00		33,834.55		-
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,661.00		-		999.00		-	6,660.00		1,602.69		-
33	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		8,177.00		-		1,443.00		-	9,620.00		2,315.00		-
Subtotal			210,000.00	645,484	133,348.00	645,484	(1,258.00)	113,074	23,532.00	113,074	(222.00)	155,400.00	176,129	37,752.24	176,129	(356.15)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-	-		-		-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-	-		-		-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-	-		-		-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-	-		-		-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-	-		-		-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-	-		-		-
Subtotal			-	645,484	-	645,484	-	113,074	-	113,074	-	-	176,129	-	176,129	-
ASM Charge Types (12 Other)																
	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(40,256.00)		-		(7,104.00)	(47,360.00)		-		(11,396.90)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(27,047.00)		-		(4,773.00)	(31,820.00)		-		(7,657.29)
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-
	Real Time Regulation Amount	55500-0070	17,000.00		10,693.00		-		1,887.00		-	12,580.00		3,027.30		-
	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		22,015.00		-		3,885.00		-	25,900.00		6,232.68		-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		14,467.00		-		2,553.00		-	17,020.00		4,095.76		-
	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,403.00		-		777.00		-	5,180.00		1,246.54		-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		18,870.00		-		3,330.00		-	22,200.00		5,342.30		-
	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		5,032.00		-		888.00		-	5,920.00		1,424.61		-
	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(8,806.00)		-		(1,554.00)	(10,360.00)		-		(2,493.07)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,887.00		-		333.00		-	2,220.00		534.23		-
	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		11,951.00		-		2,109.00		-	14,060.00		3,383.46		-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-
Subtotal			21,000.00	645,484	89,318.00	645,484	(76,109.00)	113,074	15,762.00	113,074	(13,431.00)	15,540.00	176,129	25,286.88	176,129	(21,547.27)
Grand Total			4,577,524.83	645,484	3,431,895.37	645,484	(538,424.00)	113,074	605,628.59	113,074	(95,016.00)	3,404,083.96	176,129	956,134.95	176,129	(152,433.57)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

MISO MONTHLY ALLOCATION		MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
Account Number	July 2023	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																	
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-															
Day Ahead Non-Asset Energy	55500-0027	-															
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-															
Excessive Energy Amount	55500-0066	-															
Non-Excessive Energy Amount	55500-0069	-															
Real Time Non-Asset Energy	55500-0043	-															
Subtotal		-	2,879			-				81,027				90,237			
Day Ahead and Real Time Energy Loss																	
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	4,726,521.11															
Day Ahead Financial Bilateral Transaction Loss	55500-0022	45,451.86								381,945.76			-		-		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-								3,723.57			-		-		-
Real Time Distribution of Losses	55500-0041	(230,000.00)								-			(18,842.38)		-		-
Real Time Financial Bilateral Transaction Loss	55500-0038	-								-					-		-
Subtotal		4,541,972.97	2,879	-	2,879	-				81,027	385,669.33	81,027	(18,842.38)	90,237	-	90,237	-
Virtual Energy																	
Day Ahead Virtual Energy	55500-0030	-															
Real Time Virtual Energy	55500-0049	-															
Subtotal		-	2,879	-	2,879	-				81,027	-	81,027	-	90,237	-	90,237	-
Schedule 16 & 17 1/																	
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00								11,796.97			-		-		-
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00								1,228.85			-		-		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00								278.54			-		-		-
Subtotal		162,400.00	2,879	-	2,879	-				81,027	13,304.36	81,027	-	90,237	-	90,237	-
Congestion, FTRs & ARRs																	
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-															
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-															
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	45,451.86								3,723.57			-		-		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-								-			-		-		-
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)								-			(26,952.80)		-		-
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)								-			(3,932.32)		-		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00								794.66			-		-		-
Distribution Amount	55500-0061	(90,000.00)								-			(7,373.11)		-		-
Financial Transmission Rights Hourly Allocation	55500-0032	-								-			-		-		-
Financial Transmission Rights Monthly Allocation	55500-0033	-								-			-		-		-
Financial Transmission Rights Yearly Allocation	55500-0035	-								-			-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-								-			-		-		-
FTR Guarantee Uplift Amount	55500-0055	-								-			-		-		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-								-			-		-		-
Financial Transmission Rights Transaction	55500-0034	-								-			-		-		-
Subtotal		(411,848.14)	2,879	-	2,879	-				81,027	4,518.23	81,027	(38,258.23)	90,237	-	90,237	-
RSG & Make Whole Payments																	
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00								2,048.09			-		-		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)								-			(1,065.00)		-		-
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)								-			(409.62)		-		-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00								5,325.02			-		-		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)								-			(1,474.62)		-		-
Subtotal		54,000.00	2,879	-	2,879	-				81,027	7,373.11	81,027	(2,949.24)	90,237	-	90,237	-
RNU & Misc Charges																	
Real Time Miscellaneous	55500-0042	-								-			-		-		-
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)								-			(163.85)		-		-
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00								15,565.45			-		-		-
Real Time Uninstructed Deviation	55500-0048	-								-			-		-		-
Demand Response Allocation Uplift Amount	55500-0077	9,000.00								737.31			-		-		-
Day Ahead Ramp Capability Amount	55500-0079	-								-			-		-		-
Real Time Ramp Capability Amount	55500-0080	-								-			-		-		-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00								1,065.00			-		-		-
Subtotal		210,000.00	2,879	-	2,879	-				81,027	17,367.76	81,027	(163.85)	90,237	-	90,237	-
Grandfathered Charge Types																	
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-													-		-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-													-		-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-													-		-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-													-		-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-													-		-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-													-		-
Subtotal		-	2,879	-	2,879	-				81,027	-	81,027	-	90,237	-	90,237	-
ASM Charge Types (12 Other)																	
Day Ahead Regulation Amount	55500-0062	(64,000.00)								-			(5,243.10)		-		-
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)								-			(3,522.71)		-		-
Day Ahead Supplemental Reserve Amount	55500-0064	-								-			-		-		-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-								-			-		-		-
Net Regulation Adjustment Amount	55500-0068	-								-			-		-		-
Real Time Regulation Amount	55500-0070	17,000.00								1,392.70			-		-		-
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00								2,867.32			-		-		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00								1,884.24			-		-		-
Real Time Spinning Reserve Amount	55500-0072	7,000.00								573.46			-		-		-
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00								2,457.70			-		-		-
Real Time Supplemental Reserve Amount	55500-0074	-								-			-		-		-
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00								655.39			-		-		-
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)								-			(1,146.93)		-		-
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00								245.77			-		-		-
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00								1,556.54			-		-		-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-								-			-		-		-
Subtotal		21,000.00	2,879	-	2,879	-				81,027	11,633.12	81,027	(9,912.73)	90,237	-	90,237	-
Grand Total		4,577,524.83	2,879	-	2,879	-				81,027	439,865.91	81,027	(70,126.43)	90,237	-	90,237	-

MINNESOTA POWER		Account	August 2023	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
	Day Ahead Non-Asset Energy	55500-0027	-									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
	Excessive Energy Amount	55500-0066	-									-				
22	Non-Excessive Energy Amount	55500-0069	-									-				
	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	629,845	0.00			111,581	-			-	147,833			
Day Ahead and Real Time Energy Loss																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	4,922,345.81		3,184,024.39		-		561,886.66		-	3,745,911.04		764,455.38		-
	Day Ahead Financial Bilateral Transaction Loss	55500-0022	45,262.67		29,239.69		-		5,159.94		-	34,399.63		7,058.88		-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-				-				-	-				-
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(148,580.00)		-		(26,220.00)	(174,800.00)		-		(35,869.34)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
	Subtotal		4,737,608.49	629,845	3,213,264.07	629,845	(148,580.00)	111,581	567,046.60	111,581	(26,220.00)	3,605,510.68	147,833	771,514.26	147,833	(35,869.34)
Virtual Energy																
27	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
Subtotal			-	629,845	-	629,845	-	111,581	-	111,581	-	-	147,833	-	147,833	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		93,024.00		-		16,416.00		-	109,440.00		22,457.33		-
	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,690.00		-		1,710.00		-	11,400.00		2,339.30		-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,196.40		-		387.60		-	2,584.00		530.24		-
	Subtotal		162,400.00	629,845	104,910.40	629,845	-	111,581	18,513.60	111,581	-	123,424.00	147,833	25,326.87	147,833	-
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	45,262.67		29,239.69		-		5,159.94		-	34,399.63		7,058.88		-
	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
15	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(212,534.00)		-		(37,506.00)	(250,040.00)		-		(51,308.75)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(31,008.00)		-		(5,472.00)	(36,480.00)		-		(7,485.78)
28	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		6,266.20		-		1,105.80		-	7,372.00		1,512.75		-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(58,140.00)		-		(10,260.00)	(68,400.00)		-		(14,035.83)
30	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-
31	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-
	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
Subtotal			(412,037.33)	629,845	35,505.89	629,845	(301,682.00)	111,581	6,265.74	111,581	(53,238.00)	(313,148.37)	147,833	8,571.63	147,833	(72,830.35)
RSG & Make Whole Payments																
11	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		16,150.00		-		2,850.00		-	19,000.00		3,898.84		-
	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(8,398.00)		-		(1,482.00)	(9,880.00)		-		(2,027.40)
24	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,230.00)		-		(570.00)	(3,800.00)		-		(779.77)
	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		41,990.00		-		7,410.00		-	49,400.00		10,136.99		-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(11,628.00)		-		(2,052.00)	(13,680.00)		-		(2,807.17)
	Subtotal		54,000.00	629,845	58,140.00	629,845	(23,256.00)	111,581	10,260.00	111,581	(4,104.00)	41,040.00	147,833	14,035.83	147,833	(5,614.33)
RNU & Misc Charges																
21	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-
	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-		(1,292.00)		-		(228.00)	(1,520.00)		-		(311.91)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		122,740.00		-		21,660.00		-	144,400.00		29,631.19		-
	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,814.00		-		1,026.00		-	6,840.00		1,403.58		-
	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		8,398.00		-		1,482.00		-	9,880.00		2,027.40		-
Subtotal			210,000.00	629,845	136,952.00	629,845	(1,292.00)	111,581	24,168.00	111,581	(228.00)	159,600.00	147,833	33,062.17	147,833	(311.91)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-	-		-		-
	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-	-		-		-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-	-		-		-
	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-	-		-		-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-	-		-		-
	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-	-		-		-
Subtotal			-	629,845	-	629,845	-	111,581	-	111,581	-	-	147,833	-	147,833	-
ASM Charge Types (12 Other)																
14	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(41,344.00)		-		(7,296.00)	(48,640.00)		-		(9,981.03)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(27,778.00)		-		(4,902.00)	(32,680.00)		-		(6,706.01)
20	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
26	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-
	Real Time Regulation Amount	55500-0070	17,000.00		10,982.00		-		1,938.00		-	12,920.00		2,651.21		-
33	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		22,610.00		-		3,990.00		-	26,600.00		5,458.38		-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		14,858.00		-		2,622.00		-	17,480.00		3,586.93		-
34	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,522.00		-		798.00		-	5,320.00		1,091.68		-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		19,380.00		-		3,420.00		-	22,800.00		4,678.61		-
36	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		5,168.00		-		912.00		-	6,080.00		1,247.63		-
37	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(9,044.00)		-		(1,596.00)	(10,640.00)		-		(2,163.35)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,938.00		-		342.00		-	2,280.00		467.86		-
38	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		12,274.00		-		2,166.00		-	14,440.00		2,963.12		-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-
Subtotal			21,000.00	629,845	91,732.00	629,845	(78,166.00)	111,581	16,188.00	111,581	(13,794.00)	15,960.00	147,833	22,145.42	147,833	(18,870.39)
Grand Total			4,772,971.16	629,845	3,640,504.36	629,845	(552,976.00)	111,581	642,441.95	111,581	(97,584.00)	3,632,386.31	147,833	874,656.18	147,833	(133,496.32)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER		Account	August 2023															
MISO MONTHLY ALLOCATION		Number	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
Day Ahead and Real Time Energy			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Day Ahead Non-Asset Energy	55500-0027	-																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Excessive Energy Amount	55500-0066	-																
Non-Excessive Energy Amount	55500-0068	-																
Real Time Non-Asset Energy	55500-0043	-																
Subtotal		-	306				-			79,670					111,519			
Day Ahead and Real Time Energy Loss																		
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	4,922,345.81									411,979.39	-			-			-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	45,262.67									3,804.16	-			-			-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-													-			-
Real Time Distribution of Losses	55500-0041	(230,000.00)									-	(19,330.66)			-			-
Real Time Financial Bilateral Transaction Loss	55500-0038	-									-	-			-			-
Subtotal		4,737,608.49	306	-	306	-	-	-	-	-	79,670	415,783.55	79,670	(19,330.66)	111,519	-	111,519	-
Virtual Energy																		
Day Ahead Virtual Energy	55500-0030	-																
Real Time Virtual Energy	55500-0049	-																
Subtotal		-	306	-	306	-	-	-	-	-	79,670	-	79,670	-	111,519	-	111,519	-
Schedule 16 & 17 1/																		
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00									12,102.67	-			-			-
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00									1,260.70	-			-			-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00									285.76	-			-			-
Subtotal		162,400.00	306	-	306	-	-	-	-	-	79,670	13,649.13	79,670	-	111,519	-	111,519	-
Congestion, FTRs & ARRs																		
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	45,262.67									3,804.16	-			-			-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-									-	-			-			-
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)									-	(27,651.25)			-			-
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)									-	(4,034.22)			-			-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00									815.25	-			-			-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)									-	(7,564.17)			-			-
Financial Transmission Rights Hourly Allocation	55500-0032	-									-	-			-			-
Financial Transmission Rights Monthly Allocation	55500-0033	-									-	-			-			-
Financial Transmission Rights Yearly Allocation	55500-0035	-									-	-			-			-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-									-	-			-			-
FTR Guarantee Uplift Amount	55500-0055	-									-	-			-			-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-									-	-			-			-
Financial Transmission Rights Transaction	55500-0034	-									-	-			-			-
Subtotal		(412,037.33)	306	-	306	-	-	-	-	-	79,670	4,619.41	79,670	(39,249.65)	111,519	-	111,519	-
RSG & Make Whole Payments																		
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00									2,101.16	-			-			-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)									-	(1,092.60)			-			-
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)									-	(420.23)			-			-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00									5,463.01	-			-			-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)									-	(1,512.83)			-			-
Subtotal		54,000.00	306	-	306	-	-	-	-	-	79,670	7,564.17	79,670	(3,025.67)	111,519	-	111,519	-
RNU & Misc Charges																		
Real Time Miscellaneous	55500-0042	-									-	-			-			-
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)									-	(168.09)			-			-
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00									15,968.81	-			-			-
Real Time Uninstructed Deviation	55500-0048	-									-	-			-			-
Demand Response Allocation Uplift Amount	55500-0077	9,000.00									756.42	-			-			-
Day Ahead Ramp Capability Amount	55500-0079	-									-	-			-			-
Real Time Ramp Capability Amount	55500-0080	-									-	-			-			-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00									1,092.60	-			-			-
Subtotal		210,000.00	306	-	306	-	-	-	-	-	79,670	17,817.83	79,670	(168.09)	111,519	-	111,519	-
Grandfathered Charge Types																		
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-													-			-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-													-			-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-													-			-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-													-			-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-													-			-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-													-			-
Subtotal		-	306	-	306	-	-	-	-	-	79,670	-	79,670	-	111,519	-	111,519	-
ASM Charge Types (12 Other)																		
Day Ahead Regulation Amount	55500-0062	(64,000.00)									-	(5,378.97)			-			-
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)									-	(3,613.99)			-			-
Day Ahead Supplemental Reserve Amount	55500-0064	-									-	-			-			-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-	-			-			-
Net Regulation Adjustment Amount	55500-0068	-									-	-			-			-
Real Time Regulation Amount	55500-0070	17,000.00									1,428.79	-			-			-
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00									2,941.62	-			-			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00									1,933.07	-			-			-
Real Time Spinning Reserve Amount	55500-0072	7,000.00									588.32	-			-			-
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00									2,521.39	-			-			-
Real Time Supplemental Reserve Amount	55500-0074	-									-	-			-			-
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00									672.37	-			-			-
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)									-	(1,176.65)			-			-
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00									252.14	-			-			-
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00									1,596.88	-			-			-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-									-	-			-			-
Subtotal		21,000.00	306	-	306	-	-	-	-	-	79,670	11,934.58	79,670	(10,169.61)	111,519	-	111,519	-
Grand Total		4,772,971.16	306	-	306	-	-	-	-	-	79,670	471,368.67	79,670	(71,943.68)	111,519	-	111,519	-

MINNESOTA POWER		Account									Subtotal FPE and FAC Cost/(Revenue)		MISO Non-Liquidation				
MISO MONTHLY ALLOCATION		Number	September 2023	FPE Retail		Revenue		FAC Resale		Revenue		Cost/(Revenue)		Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue						
	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-					
1a	Day Ahead Non-Asset Energy	55500-0027	-									-					
5																	
	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-					
13a	Excessive Energy Amount	55500-0066	-									-					
	Non-Excessive Energy Amount	55500-0069	-									-					
22	Real Time Non-Asset Energy	55500-0043	-									-					
Subtotal			-	615,557	0.00			103,050	-			-	166,176				
Day Ahead and Real Time Energy Loss																	
	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,438,728.81		2,204,363.11		-		358,849.81		-	2,563,212.92		606,256.35		-	
1c	Day Ahead Financial Bilateral Transaction Loss	55500-0022	72,451.78		46,731.40		-		7,607.44		-	54,338.84		12,542.42		-	
3																	
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-				-					-					
13c	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(148,350.00)		-		(24,150.00)	(172,500.00)		-		(39,816.23)	
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-	
Subtotal			3,281,180.59	615,557	2,251,094.51	615,557	(148,350.00)	103,050	366,457.25	103,050	(24,150.00)	2,445,051.76	166,176	618,798.77	166,176	(39,816.23)	
Virtual Energy																	
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-					
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-					
Subtotal			-	615,557	-	615,557	-	103,050	-	103,050	-	-	166,176	-	166,176	-	
Schedule 16 & 17 1/																	
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		92,880.00		-		15,120.00		-	108,000.00		24,928.42		-	
	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,675.00		-		1,575.00		-	11,250.00		2,596.71		-	
19	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,193.00		-		357.00		-	2,550.00		588.59		-	
Subtotal			162,400.00	615,557	104,748.00	615,557	-	103,050	17,052.00	103,050	-	121,800.00	166,176	28,113.72	166,176	-	
Congestion, FTRs & ARRs																	
	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-	
1b																	
	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-	
13b																	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	72,451.78		46,731.40		-		7,607.44		-	54,338.84		12,542.42		-	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-	
	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(212,205.00)		-		(34,545.00)	(246,750.00)		-		(56,954.52)	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(30,960.00)		-		(5,040.00)	(36,000.00)		-		(8,309.47)	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		6,256.50		-		1,018.50		-	7,275.00		1,679.21		-	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(58,050.00)		-		(9,450.00)	(67,500.00)		-		(15,580.26)	
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-	
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-	
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-	
	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-	
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-	
Subtotal			(384,848.22)	615,557	52,987.90	615,557	(301,215.00)	103,050	8,625.94	103,050	(49,035.00)	(288,636.16)	166,176	14,221.63	166,176	(80,844.25)	
RSG & Make Whole Payments																	
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		16,125.00		-		2,625.00		-	18,750.00		4,327.85		-	
	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(8,385.00)		-		(1,365.00)	(9,750.00)		-		(2,250.48)	
11																	
	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,225.00)		-		(525.00)	(3,750.00)		-		(865.57)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		41,925.00		-		6,825.00		-	48,750.00		11,252.41		-	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(11,610.00)		-		(1,890.00)	(13,500.00)		-		(3,116.05)	
Subtotal			54,000.00	615,557	58,050.00	615,557	(23,220.00)	103,050	9,450.00	103,050	(3,780.00)	40,500.00	166,176	15,580.26	166,176	(6,232.11)	
RNU & Misc Charges																	
20	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-	
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-		(1,290.00)		-		(210.00)	(1,500.00)		-		(346.23)	
	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		122,550.00		-		19,950.00		-	142,500.00		32,891.67		-	
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-	
	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,805.00		-		945.00		-	6,750.00		1,558.03		-	
27	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-	
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-	
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		8,385.00		-		1,365.00		-	9,750.00		2,250.48		-	
Subtotal			210,000.00	615,557	136,740.00	615,557	(1,290.00)	103,050	22,260.00	103,050	(210.00)	157,500.00	166,176	36,700.18	166,176	(346.23)	
Grandfathered Charge Types																	
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-									-					
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-									-					
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-									-					
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-									-					
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-									-					
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-									-					
Subtotal			-	615,557	-	615,557	-	103,050	-	103,050	-	-	166,176	-	166,176	-	
ASM Charge Types (12 Other)																	
	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(41,280.00)		-		(6,720.00)	(48,000.00)		-		(11,079.30)	
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)				(27,735.00)				(4,515.00)	(32,250.00)				(7,443.90)	
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-	
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-	
	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-	
	Real Time Regulation Amount	55500-0070	17,000.00		10,965.00		-		1,785.00		-	12,750.00		2,942.94		-	
	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		22,575.00		-		3,675.00		-	26,250.00		6,058.99		-	
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		14,835.00		-		2,415.00		-	17,250.00		3,981.62		-	
	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,515.00		-		735.00		-	5,250.00		1,211.80		-	
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		19,350.00		-		3,150.00		-	22,500.00		5,193.42		-	
	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-	
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		5,160.00		-		840.00		-	6,000.00		1,384.91		-	
	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(9,030.00)		-		(1,470.00)	(10,500.00)		-		(2,423.60)	
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,935.00		-		315.00		-	2,250.00		519.34		-	
	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		12,255.00		-		1,995.00		-	14,250.00		3,289.17		-	
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-	
Subtotal			21,000.00	615,557	91,590.00	615,557	(78,045.00)	103,050	14,910.00	103,050	(12,705.00)	15,750.00	166,176	24,582.19	166,176	(20,946.80)	
Grand Total			3,343,732.37	615,557	2,695,210.41	615,557	(552,120.00)	103,050	438,755.18	103,050	(89,880.00)	2,491,965.59	166,176	737,996.75	166,176	(148,185.61)	

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Day Ahead and Real Time Energy

	Account Number	September 2023	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Day Ahead Non-Asset Energy	55500-0027	-																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																
Excessive Energy Amount	55500-0066	-																
Non-Excessive Energy Amount	55500-0068	-																
Real Time Non-Asset Energy	55500-0043	-																
Subtotal		-	5,063				-				73,805				97,901			

Day Ahead and Real Time Energy Loss

Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,438,728.81									269,259.53	-			-			-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	72,451.78									5,570.53	-			-			-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Real Time Distribution of Losses	55500-0041	(230,000.00)									-	(17,683.77)			-			-
Real Time Financial Bilateral Transaction Loss	55500-0038	-									-	-			-			-
Subtotal		3,281,180.59	5,063	-	5,063	-	-	-	-	-	73,805	274,830.06	73,805	(17,683.77)	97,901	-	97,901	-
Virtual Energy																		
Day Ahead Virtual Energy	55500-0030	-																
Real Time Virtual Energy	55500-0049	-																
Subtotal		-	5,063	-	5,063	-	-	-	-	-	73,805	-	73,805	-	97,901	-	97,901	-

Schedule 16 & 17 1/

Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00									11,071.58	-			-			-
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00									1,153.29	-			-			-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00									261.41	-			-			-
Subtotal		162,400.00	5,063	-	5,063	-	-	-	-	-	73,805	12,486.28	73,805	-	97,901	-	97,901	-

Congestion, FTRs & ARRs

Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-									-	-			-			-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	72,451.78									5,570.53	-			-			-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-									-	-			-			-
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)									-	(25,295.48)			-			-
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)									-	(3,690.53)			-			-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00									745.79	-			-			-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)									-	(6,919.74)			-			-
Financial Transmission Rights Hourly Allocation	55500-0032	-									-	-			-			-
Financial Transmission Rights Monthly Allocation	55500-0033	-									-	-			-			-
Financial Transmission Rights Yearly Allocation	55500-0035	-									-	-			-			-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-									-	-			-			-
FTR Guarantee Uplift Amount	55500-0055	-									-	-			-			-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-									-	-			-			-
Financial Transmission Rights Transaction	55500-0034	-									-	-			-			-
Subtotal		(384,848.22)	5,063	-	5,063	-	-	-	-	-	73,805	6,316.32	73,805	(35,905.75)	97,901	-	97,901	-

RSG & Make Whole Payments

Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00									1,922.15	-			-			-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)									-	(999.52)			-			-
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)									-	(384.43)			-			-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00									4,997.59	-			-			-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)									-	(1,363.95)			-			-
Subtotal		54,000.00	5,063	-	5,063	-	-	-	-	-	73,805	6,919.74	73,805	(2,767.89)	97,901	-	97,901	-

RNU & Misc Charges

Real Time Miscellaneous	55500-0042	-									-	-			-			-
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)									-	(153.77)			-			-
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00									14,608.33	-			-			-
Real Time Uninstructed Deviation	55500-0048	-									-	-			-			-
Demand Response Allocation Uplift Amount	55500-0077	9,000.00									691.97	-			-			-
Day Ahead Ramp Capability Amount	55500-0079	-									-	-			-			-
Real Time Ramp Capability Amount	55500-0080	-									-	-			-			-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00									999.52	-			-			-
Subtotal		210,000.00	5,063	-	5,063	-	-	-	-	-	73,805	16,299.82	73,805	(153.77)	97,901	-	97,901	-

Grandfathered Charge Types

Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-													-			-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-													-			-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-													-			-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-													-			-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-													-			-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-													-			-
Subtotal		-	5,063	-	5,063	-	-	-	-	-	73,805	-	73,805	-	97,901	-	97,901	-

ASM Charge Types (12 Other)

Day Ahead Regulation Amount	55500-0062	(64,000.00)									-	(4,920.70)			-			-
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)									-	(3,306.10)			-			-
Day Ahead Supplemental Reserve Amount	55500-0064	-									-	-			-			-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-	-			-			-
Net Regulation Adjustment Amount	55500-0068	-									-	-			-			-
Real Time Regulation Amount	55500-0070	17,000.00									1,307.06	-			-			-
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00									2,691.01	-			-			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00									1,768.38	-			-			-
Real Time Spinning Reserve Amount	55500-0072	7,000.00									538.20	-			-			-
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00									2,306.58	-			-			-
Real Time Supplemental Reserve Amount	55500-0074	-									-	-			-			-
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00									615.09	-			-			-
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)									-	(1,076.40)			-			-
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00									230.66	-			-			-
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00									1,460.83	-			-			-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-									-	-			-			-
Subtotal		21,000.00	5,063	-	5,063	-	-	-	-	-	73,805	10,917.81	73,805	(9,303.20)	97,901	-	97,901	-

Grand Total		3,343,732.37	5,063	-	5,063	-	-	-	-	-	73,805	327,770.03	73,805	(65,814.39)	97,901	-	97,901	-
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MINNESOTA POWER		Account	October 2023	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost(Revenue)	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
	Day Ahead Non-Asset Energy	55500-0027	-									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
	Excessive Energy Amount	55500-0066	-									-				
22	Non-Excessive Energy Amount	55500-0069	-									-				
	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	619,102	0.00			110,655	-			-	137,754			
Day Ahead and Real Time Energy Loss																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,075,232.03		2,013,254.77		-		365,280.25		-	2,368,535.02		462,879.52		-
	Day Ahead Financial Bilateral Transaction Loss	55500-0022	74,758.93		48,929.72		-		8,634.66		-	57,564.38		11,262.26		-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-				-				-	-				-
	Real Time Distribution of Losses	55500-0041	(230,000.00)		-		(150,535.00)		-		(26,565.00)	(177,100.00)		-		(34,648.97)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
	Subtotal		2,919,990.96	619,102	2,062,184.49	619,102	(150,535.00)	110,655	363,914.91	110,655	(26,565.00)	2,248,999.40	137,754	474,141.78	137,754	(34,648.97)
Virtual Energy																
27	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
Subtotal			-	619,102	-	619,102	-	110,655	-	110,655	-	-	137,754	-	137,754	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		94,248.00		-		16,632.00		-	110,880.00		21,693.27		-
	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,817.50		-		1,732.50		-	11,550.00		2,259.72		-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,225.30		-		392.70		-	2,618.00		512.20		-
	Subtotal		162,400.00	619,102	106,290.80	619,102	-	110,655	18,757.20	110,655	-	125,048.00	137,754	24,465.19	137,754	-
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-		-		-		-	-		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	74,758.93		48,929.72		-		8,634.66		-	57,564.38		11,262.26		-
	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
15	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-		(215,330.50)		-		(37,999.50)	(253,330.00)		-		(49,563.10)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)		-		(31,416.00)		-		(5,544.00)	(36,960.00)		-		(7,231.09)
28	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00		6,348.65		-		1,120.35		-	7,469.00		1,461.28		-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)		-		(58,905.00)		-		(10,395.00)	(69,300.00)		-		(13,558.29)
30	Financial Transmission Rights Hourly Allocation	55500-0032	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Allocation	55500-0033	-		-		-		-		-	-		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-		-		-		-	-		-		-
31	FTR Guarantee Uplift Amount	55500-0055	-		-		-		-		-	-		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-		-		-
	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
Subtotal			(382,541.07)	619,102	55,278.37	619,102	(305,651.50)	110,655	9,755.01	110,655	(53,938.50)	(294,556.62)	137,754	12,723.54	137,754	(70,352.48)
RSG & Make Whole Payments																
11	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		16,362.50		-		2,887.50		-	19,250.00		3,766.19		-
	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-		(8,508.50)		-		(1,501.50)	(10,010.00)		-		(1,958.42)
24	Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)		-		(3,272.50)		-		(577.50)	(3,850.00)		-		(753.24)
	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		42,542.50		-		7,507.50		-	50,050.00		9,792.10		-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-		(11,781.00)		-		(2,079.00)	(13,860.00)		-		(2,711.66)
	Subtotal		54,000.00	619,102	58,905.00	619,102	(23,562.00)	110,655	10,395.00	110,655	(4,158.00)	41,580.00	137,754	13,558.29	137,754	(5,423.32)
RNU & Misc Charges																
21	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-		-		-
	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)				(1,309.00)				(231.00)	(1,540.00)				(301.30)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		124,355.00		-		21,945.00		-	146,300.00		28,623.07		-
	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,890.50		-		1,039.50		-	6,930.00		1,355.83		-
	Day Ahead Ramp Capability Amount	55500-0079	-		-		-		-		-	-		-		-
34	Real Time Ramp Capability Amount	55500-0080	-		-		-		-		-	-		-		-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00		8,508.50		-		1,501.50		-	10,010.00		1,958.42		-
Subtotal			210,000.00	619,102	138,754.00	619,102	(1,309.00)	110,655	24,486.00	110,655	(231.00)	161,700.00	137,754	31,937.32	137,754	(301.30)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-									-				
	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-									-				
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-									-				
	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-									-				
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-									-				
	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-									-				
Subtotal			-	619,102	-	619,102	-	110,655	-	110,655	-	-	137,754	-	137,754	-
ASM Charge Types (12 Other)																
14	Day Ahead Regulation Amount	55500-0062	(64,000.00)		-		(41,888.00)		-		(7,392.00)	(49,280.00)		-		(9,641.45)
	Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)		-		(28,143.50)		-		(4,966.50)	(33,110.00)		-		(6,477.85)
23	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
26	Net Regulation Adjustment Amount	55500-0068	-		-		-		-		-	-		-		-
	Real Time Regulation Amount	55500-0070	17,000.00		11,126.50		-		1,963.50		-	13,090.00		2,561.01		-
27	Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00		22,907.50		-		4,042.50		-	26,950.00		5,272.67		-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00		15,053.50		-		2,656.50		-	17,710.00		3,464.90		-
33	Real Time Spinning Reserve Amount	55500-0072	7,000.00		4,581.50		-		808.50		-	5,390.00		1,054.53		-
	Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00		19,635.00		-		3,465.00		-	23,100.00		4,519.43		-
34	Real Time Supplemental Reserve Amount	55500-0074	-		-		-		-		-	-		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00		5,236.00		-		924.00		-	6,160.00		1,205.18		-
22	Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)		-		(9,163.00)		-		(1,617.00)	(10,780.00)		-		(2,109.07)
	Real-Time Short-Term Reserve Amount	55500-0083	3,000.00		1,963.50		-		346.50		-	2,310.00		451.94		-
22	Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00		12,435.50		-		2,194.50		-	14,630.00		2,862.31		-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-	-		-		-
Subtotal			21,000.00	619,102	92,939.00	619,102	(79,194.50)	110,655	16,401.00	110,655	(13,975.50)	16,170.00	137,754	21,391.98	137,754	(18,228.37)
Grand Total			2,984,849.89	619,102	2,514,351.66	619,102	(560,252.00)	110,655	443,709.12	110,655	(98,868.00)	2,296,940.78	137,754	578,218.10	137,754	(128,954.44)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER		Account	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales				
MISO MONTHLY ALLOCATION		Number	October 2023	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																			
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																	
Day Ahead Non-Asset Energy	55500-0027	-																	
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																	
Excessive Energy Amount	55500-0066	-																	
Non-Excessive Energy Amount	55500-0069	-																	
Real Time Non-Asset Energy	55500-0043	-																	
Subtotal		-	11,195					-			72,561				101,436				
Day Ahead and Real Time Energy Loss																			
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,075,232.03										243,817.49	-			-			-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	74,758.93										5,932.29	-			-			-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-														-			-
Real Time Distribution of Losses	55500-0041	(230,000.00)										-	-	(18,251.03)		-			-
Real Time Financial Bilateral Transaction Loss	55500-0038	-										-	-			-			-
Subtotal		2,919,990.96	11,195	-	11,195	-	-	-	-	-	72,561	249,749.78	72,561	(18,251.03)	101,436	-	101,436		-
Virtual Energy																			
Day Ahead Virtual Energy	55500-0030	-																	
Real Time Virtual Energy	55500-0049	-																	
Subtotal		-	11,195	-	11,195	-	-	-	-	-	72,561	-	72,561	-	101,436	-	101,436		-
Schedule 16 & 17 - 1/																			
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00										11,426.73	-			-			-
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00										1,190.28	-			-			-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00										269.80	-			-			-
Subtotal		162,400.00	11,195	-	11,195	-	-	-	-	-	72,561	12,886.81	72,561	-	101,436	-	101,436		-
Congestion, FTRs & ARRs																			
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-										-	-			-			-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-										-	-			-			-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	74,758.93										5,932.29	-			-			-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-										-	-			-			-
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)										-	(26,106.90)			-			-
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)										-	(3,808.91)			-			-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00										769.72	-			-			-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)										-	(7,141.71)			-			-
Financial Transmission Rights Hourly Allocation	55500-0032	-										-	-			-			-
Financial Transmission Rights Monthly Allocation	55500-0033	-										-	-			-			-
Financial Transmission Rights Yearly Allocation	55500-0035	-										-	-			-			-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-										-	-			-			-
FTR Guarantee Uplift Amount	55500-0055	-										-	-			-			-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-										-	-			-			-
Financial Transmission Rights Transaction	55500-0034	-										-	-			-			-
Subtotal		(382,541.07)	11,195	-	11,195	-	-	-	-	-	72,561	6,702.01	72,561	(37,057.52)	101,436	-	101,436		-
RSG & Make Whole Payments																			
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00										1,983.81	-			-			-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)										-	(1,031.58)			-			-
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)										-	(396.76)			-			-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00										5,157.90	-			-			-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)										-	(1,428.34)			-			-
Subtotal		54,000.00	11,195	-	11,195	-	-	-	-	-	72,561	7,141.71	72,561	(2,856.68)	101,436	-	101,436		-
RNU & Misc Charges																			
Real Time Miscellaneous	55500-0042	-										-	-			-			-
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)										-	(158.70)			-			-
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00										15,076.93	-			-			-
Real Time Uninstructed Deviation	55500-0048	-										-	-			-			-
Demand Response Allocation Uplift Amount	55500-0077	9,000.00										714.17	-			-			-
Day Ahead Ramp Capability Amount	55500-0079	-										-	-			-			-
Real Time Ramp Capability Amount	55500-0080	-										-	-			-			-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00										1,031.58	-			-			-
Subtotal		210,000.00	11,195	-	11,195	-	-	-	-	-	72,561	16,822.68	72,561	(158.70)	101,436	-	101,436		-
Grandfathered Charge Types																			
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-														-			-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-														-			-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-														-			-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-														-			-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-														-			-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-														-			-
Subtotal		-	11,195	-	11,195	-	-	-	-	-	72,561	-	72,561	-	101,436	-	101,436		-
ASM Charge Types (12 Other)																			
Day Ahead Regulation Amount	55500-0062	(64,000.00)										-	(5,078.55)			-			-
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)										-	(3,412.15)			-			-
Day Ahead Supplemental Reserve Amount	55500-0064	-										-	-			-			-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-										-	-			-			-
Net Regulation Adjustment Amount	55500-0068	-										-	-			-			-
Real Time Regulation Amount	55500-0070	17,000.00										1,348.99	-			-			-
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00										2,777.33	-			-			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00										1,825.10	-			-			-
Real Time Spinning Reserve Amount	55500-0072	7,000.00										555.47	-			-			-
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00										2,380.57	-			-			-
Real Time Supplemental Reserve Amount	55500-0074	-										-	-			-			-
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00										634.82	-			-			-
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)										-	(1,110.93)			-			-
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00										238.06	-			-			-
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00										1,507.69	-			-			-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-										-	-			-			-
Subtotal		21,000.00	11,195	-	11,195	-	-	-	-	-	72,561	11,268.02	72,561	(9,601.63)	101,436	-	101,436		-
Grand Total		2,984,849.89	11,195	-	11,195	-	-	-	-	-	72,561	304,571.02	72,561	(67,925.56)	101,436	-	101,436		-

MINNESOTA POWER		Account									Subtotal FPE and FAC Cost/(Revenue)		MISO Non-Liquidation					
MISO MONTHLY ALLOCATION			Number	November 2023	FPE Retail		FAC Resale											
					Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		Mwh	Cost	Mwh	Revenue	
Day Ahead and Real Time Energy																		
Day Ahead Asset Energy			44700-0000 or 55500-0000 or 55500-0050	-									-					
1a	Day Ahead Non-Asset Energy			55500-0027	-								-					
5	Real Time Asset Energy			44700-0000 or 55500-0000 or 55500-0050	-								-					
13a	Excessive Energy Amount			55500-0066	-								-					
	Non-Excessive Energy Amount			55500-0069	-								-					
22	Real Time Non-Asset Energy			55500-0043	-								-					
Subtotal				-	636,322	0.00			111,344	-			-	200,633				
Day Ahead and Real Time Energy Loss																		
Day Ahead Loss			44700-0000 or 55500-0000 or 55500-0050	3,620,617.05		2,229,239.83	-		393,395.26	-			2,622,635.10		732,342.29		-	
1c	Day Ahead Financial Bilateral Transaction Loss			55500-0022	73,577.22		45,029.26	-	7,946.34	-			52,975.60		15,117.95		-	
3	Real Time Loss			44700-0000 or 55500-0000 or 55500-0050	-		-		-				-		-		-	
13c	Real Time Distribution of Losses			55500-0041	(230,000.00)		-		-		(24,840.00)		(165,600.00)		-		(47,258.21)	
14	Real Time Financial Bilateral Transaction Loss			55500-0038	-		-		-		-		-		-		-	
16	Subtotal				3,464,194.27	636,322	2,274,269.09	636,322	(140,760.00)	111,344	401,341.60	111,344	(24,840.00)	2,510,010.69	200,633	747,460.24	200,633	(47,258.21)
Virtual Energy																		
Day Ahead Virtual Energy			55500-0030	-		-	-	-	-	-	-	-	-					
12	Real Time Virtual Energy			55500-0049	-		-	-	-	-	-	-	-					
27	Subtotal				-	636,322	-	636,322	-	111,344	-	111,344	-	-	200,633	-	200,633	-
Schedule 16 & 17 1/																		
Day Ahead Market Administration (Schedule 17)			55500-0020	144,000.00		88,128.00	-		15,552.00	-			103,680.00		29,587.75		-	
4	Real Time Market Administration (Schedule 17)			55500-0036	15,000.00		9,180.00	-	1,620.00	-			10,800.00		3,082.06		-	
19	Financial Transmission Rights Market Administration (Schedule 16)			55500-0031	3,400.00		2,080.80	-	367.20	-			2,448.00		698.60		-	
29	Subtotal				162,400.00	636,322	99,388.80	636,322	-	111,344	17,539.20	111,344	-	116,928.00	200,633	33,368.41	200,633	-
Congestion, FTRs & ARRs																		
Day Ahead Congestion			44700-0000 or 55500-0000 or 55500-0050	-		-	-		-	-			-		-		-	
1b	Real Time Congestion			44700-0000 or 55500-0000 or 55500-0050	-		-	-	-	-			-		-		-	
13b	Day Ahead Financial Bilateral Transaction Congestion			55500-0021	73,577.22		45,029.26	-	7,946.34	-			52,975.60		15,117.95		-	
2	Real Time Financial Bilateral Transaction Congestion			55500-0037	-		-	-	-	-			-		-		-	
15	Auction Revenue Rights Transaction Amount			55500-0058	(329,000.00)		-		-		(35,532.00)		(236,880.00)		-		(67,599.79)	
	Financial Transmission Rights Annual Transaction Amount			55500-0059	(48,000.00)		-		-		(5,184.00)		(34,560.00)		-		(9,862.58)	
	Auction Revenue Rights Infeasible Uplift Amount			55500-0060	9,700.00		5,936.40	-	1,047.60	-			6,984.00		1,993.06		-	
	Auction Revenue Rights Stage 2 Distribution Amount			55500-0061	(90,000.00)		-		-		(9,720.00)		(64,800.00)		-		(18,492.34)	
28	Financial Transmission Rights Hourly Allocation			55500-0032	-		-	-	-	-			-		-		-	
30	Financial Transmission Rights Monthly Allocation			55500-0033	-		-	-	-	-			-		-		-	
32	Financial Transmission Rights Yearly Allocation			55500-0035	-		-	-	-	-			-		-		-	
	Financial Transmission Rights Full Funding Guarantee Amount			55500-0054	-		-	-	-	-			-		-		-	
	FTR Guarantee Uplift Amount			55500-0055	-		-	-	-	-			-		-		-	
	Financial Transmission Rights Monthly Transaction Amount			55500-0056	-		-	-	-	-			-		-		-	
31	Financial Transmission Rights Transaction			55500-0034	-		-	-	-	-			-		-		-	
Subtotal				(383,722.78)	636,322	50,965.66	636,322	(285,804.00)	111,344	8,993.94	111,344	(50,436.00)	(276,280.40)	200,633	17,111.01	200,633	(95,954.72)	
RSG & Make Whole Payments																		
Day Ahead Revenue Sufficiency Guarantee Distribution			55500-0028	25,000.00		15,300.00	-		2,700.00	-			18,000.00		5,136.76		-	
10	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment			55500-0029	(13,000.00)		-		-		(1,404.00)		(9,360.00)		-		(2,671.12)	
11	Real Time Price Volatility Make Whole Payment			55500-0057	(5,000.00)		-		-		(540.00)		(3,600.00)		-		(1,027.35)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist			55500-0046	65,000.00		39,780.00	-	7,020.00	-			46,800.00		13,355.58		-	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment			55500-0047	(18,000.00)		-		-		(1,944.00)		(12,960.00)		-		(3,698.47)	
Subtotal				54,000.00	636,322	55,080.00	636,322	(22,032.00)	111,344	9,720.00	111,344	(3,888.00)	38,880.00	200,633	18,492.34	200,633	(7,396.94)	
RNU & Misc Charges																		
Real Time Miscellaneous			55500-0042	-		-	-	-	-	-			-		-		-	
20	Real Time Net Inadvertent Distribution			55500-0044	(2,000.00)		-		-		(216.00)		(1,440.00)		-		(410.94)	
21	Real Time Revenue Neutrality Uplift Amount			55500-0045	190,000.00		116,280.00	-	20,520.00	-			136,800.00		39,039.39		-	
23	Real Time Uninstructed Deviation			55500-0048	-		-	-	-	-			-		-		-	
26	Demand Response Allocation Uplift Amount			55500-0077	9,000.00		5,508.00	-	972.00	-			6,480.00		1,849.23		-	
27	Day Ahead Ramp Capability Amount			55500-0079	-		-	-	-	-			-		-		-	
34	Real Time Ramp Capability Amount			55500-0080	-		-	-	-	-			-		-		-	
	Real Time Schedule 49 Cost Distribution Amount			55500-0081	13,000.00		7,956.00	-	1,404.00	-			9,360.00		2,671.12		-	
Subtotal				210,000.00	636,322	129,744.00	636,322	(1,224.00)	111,344	22,896.00	111,344	(216.00)	151,200.00	200,633	43,559.74	200,633	(410.94)	
Grandfathered Charge Types																		
Day Ahead Congestion Rebate on Carve-Out Grandfathered			55500-0023	-		-	-	-	-	-			-		-		-	
6	Day Ahead Losses Rebate on Carve-Out Grandfathered			55500-0024	-		-	-	-	-			-		-		-	
7	Day Ahead Congestion Rebate on Option B Grandfathered			55500-0025	-		-	-	-	-			-		-		-	
8	Day Ahead Losses Rebate on Option B Grandfathered			55500-0026	-		-	-	-	-			-		-		-	
9	Real Time Losses Rebate on Carve-Out Grandfathered			55500-0040	-		-	-	-	-			-		-		-	
17	Real Time Congestion Rebate on Carve-Out Grandfathered			55500-0039	-		-	-	-	-			-		-		-	
18	Subtotal				-	636,322	-	636,322	-	111,344	-	111,344	-	-	200,633	-	200,633	-
ASM Charge Types (12 Other)																		
Day Ahead Regulation Amount			55500-0062	(64,000.00)		-		(39,168.00)	-			(6,912.00)		(46,080.00)		-		(13,150.11)
	Day Ahead Spinning Reserve Amount			55500-0063	(43,000.00)		-		(26,316.00)	-			(4,644.00)		(30,960.00)		-	(8,835.23)
	Day Ahead Supplemental Reserve Amount			55500-0064	-		-	-	-	-			-		-		-	
	Contingency Reserve Deployment Failure Charge Amount			55500-0065	-		-	-	-	-			-		-		-	
	Net Regulation Adjustment Amount			55500-0068	-		-	-	-	-			-		-		-	
	Real Time Regulation Amount			55500-0070	17,000.00		10,404.00	-	1,836.00	-			12,240.00		3,493.00		-	
	Regulation Reserve Cost Distribution Amount			55500-0071	35,000.00		21,420.00	-	3,780.00	-			25,200.00		7,191.47		-	
	Real-Time Excessive Deficient Deployment Charge Amount			55500-0067	23,000.00		14,076.00	-	2,484.00	-			16,560.00		4,725.82		-	
	Real Time Spinning Reserve Amount			55500-0072	7,000.00		4,284.00	-	756.00	-			5,040.00		1,438.29		-	
	Spinning Reserve Cost Distribution Amount			55500-0073	30,000.00		18,360.00	-	3,240.00	-			21,600.00		6,164.11		-	
	Real Time Supplemental Reserve Amount			55500-0074	-		-	-	-	-			-		-		-	
	Supplemental Reserve Cost Distribution Amount			55500-0075	8,000.00		4,896.00	-	864.00	-			5,760.00		1,643.76		-	
	Day Ahead Short-Term Reserve Amount			55500-0082	(14,000.00)		-		-		(1,512.00)		(10,080.00)		-		(2,876.59)	
	Real-Time Short-Term Reserve Amount			55500-0083	3,000.00		1,836.00	-	324.00	-			2,160.00		616.41		-	
	Short-Term Reserve Cost Distribution Amount			55500-0084	19,000.00		11,628.00	-	2,052.00	-			13,680.00		3,903.94		-	
	Short-Term Reserve Deployment Failure Charge Amount			55500-0085	-		-	-	-	-			-		-		-	
Subtotal				21,000.00	636,322	86,904.00	636,322	(74,052.00)	111,344	15,336.00	111,344	(13,068.00)	15,120.00	200,633	29,176.81	200,633	(24,861.93)	
Grand Total				3,527,871.49	636,322	2,696,351.55	636,322	(523,872.00)	111,344	475,826.74	111,344	(92,448.00)	2,555,858.29	200,633	889,168.55	200,633	(175,882.74)	

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

MINNESOTA POWER		Account	November 2023				MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION			Number	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue			
Day Ahead and Real Time Energy																						
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																				
Day Ahead Non-Asset Energy	55500-0027	-																				
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																				
Excessive Energy Amount	55500-0066	-																				
Non-Excessive Energy Amount	55500-0069	-																				
Real Time Non-Asset Energy	55500-0043	-																				
Subtotal		-	1,081					-				72,775				114,111						
Day Ahead and Real Time Energy Loss																						
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,620,617.05											265,639.66		-		-		-			
Day Ahead Financial Bilateral Transaction Loss	55500-0022	73,577.22											5,483.67		-		-		-			
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-													-		-		-			
Real Time Distribution of Losses	55500-0041	(230,000.00)													(17,141.79)		-		-			
Real Time Financial Bilateral Transaction Loss	55500-0038	-													-		-		-			
Subtotal		3,464,194.27	1,081	-	1,081	-	-	-	-	-	-	72,775	271,123.34	72,775	(17,141.79)	114,111	-	114,111	-			
Virtual Energy																						
Day Ahead Virtual Energy	55500-0030	-																				
Real Time Virtual Energy	55500-0049	-																				
Subtotal		-	1,081	-	1,081	-	-	-	-	-	-	72,775	-	72,775	-	114,111	-	114,111	-			
Schedule 16 & 17 1/																						
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00											10,732.25		-		-		-			
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00											1,117.94		-		-		-			
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00											253.40		-		-		-			
Subtotal		162,400.00	1,081	-	1,081	-	-	-	-	-	-	72,775	12,103.59	72,775	-	114,111	-	114,111	-			
Congestion, FTRs & ARRs																						
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-											-		-		-		-			
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-											-		-		-		-			
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	73,577.22											5,483.67		-		-		-			
Real Time Financial Bilateral Transaction Congestion	55500-0037	-											-		-		-		-			
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)											-		(24,520.21)		-		-			
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)											-		(3,577.42)		-		-			
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00											722.94		-		-		-			
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)											-		(6,707.66)		-		-			
Financial Transmission Rights Hourly Allocation	55500-0032	-											-		-		-		-			
Financial Transmission Rights Monthly Allocation	55500-0033	-											-		-		-		-			
Financial Transmission Rights Yearly Allocation	55500-0035	-											-		-		-		-			
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-											-		-		-		-			
FTR Guarantee Uplift Amount	55500-0055	-											-		-		-		-			
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-											-		-		-		-			
Financial Transmission Rights Transaction	55500-0034	-											-		-		-		-			
Subtotal		(383,722.78)	1,081	-	1,081	-	-	-	-	-	-	72,775	6,206.61	72,775	(34,805.28)	114,111	-	114,111	-			
RSG & Make Whole Payments																						
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00											1,863.24		-		-		-			
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)											-		(968.88)		-		-			
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)											-		(372.65)		-		-			
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00											4,844.42		-		-		-			
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)											-		(1,341.53)		-		-			
Subtotal		54,000.00	1,081	-	1,081	-	-	-	-	-	-	72,775	6,707.66	72,775	(2,683.06)	114,111	-	114,111	-			
RNU & Misc Charges																						
Real Time Miscellaneous	55500-0042	-											-		-		-		-			
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)											-		(149.06)		-		-			
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00											14,160.61		-		-		-			
Demand Response Deviation Allocation	55500-0048	-											-		-		-		-			
Day Ahead Ramp Capability Amount	55500-0077	9,000.00											670.77		-		-		-			
Real Time Ramp Capability Amount	55500-0080	-											-		-		-		-			
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00											968.88		-		-		-			
Subtotal		210,000.00	1,081	-	1,081	-	-	-	-	-	-	72,775	15,800.26	72,775	(149.06)	114,111	-	114,111	-			
Grandfathered Charge Types																						
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-															-		-			
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-															-		-			
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-															-		-			
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-															-		-			
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-															-		-			
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-															-		-			
Subtotal		-	1,081	-	1,081	-	-	-	-	-	-	72,775	-	72,775	-	114,111	-	114,111	-			
ASM Charge Types (12 Other)																						
Day Ahead Regulation Amount	55500-0062	(64,000.00)											-		(4,769.89)		-		-			
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)											-		(3,204.77)		-		-			
Day Ahead Supplemental Reserve Amount	55500-0064	-											-		-		-		-			
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-											-		-		-		-			
Net Regulation Adjustment Amount	55500-0068	-											-		-		-		-			
Real Time Regulation Amount	55500-0070	17,000.00											1,267.00		-		-		-			
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00											2,608.53		-		-		-			
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00											1,714.18		-		-		-			
Real Time Spinning Reserve Amount	55500-0072	7,000.00											521.71		-		-		-			
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00											2,235.89		-		-		-			
Real Time Supplemental Reserve Amount	55500-0074	-											-		-		-		-			
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00											596.24		-		-		-			
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)											-		(1,043.41)		-		-			
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00											223.59		-		-		-			
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00											1,416.06		-		-		-			
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-											-		-		-		-			
Subtotal		21,000.00	1,081	-	1,081	-	-	-	-	-	-	72,775	10,583.19	72,775	(9,018.07)	114,111	-	114,111	-			
Grand Total		3,527,871.49	1,081	-	1,081	-	-	-	-	-	-	72,775	322,524.64	72,775	(63,797.26)	114,111	-	114,111	-			

MINNESOTA POWER		Account										Subtotal FPE and FAC				
MISO MONTHLY ALLOCATION		Number	December 2023	FPE Retail				FAC Resale				Cost/(Revenue)	MISO Non-Liquidation			
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
Day Ahead Asset Energy		44700-0000 or 55500-0000 or 55500-0050	-									-				
1a	Day Ahead Non-Asset Energy	55500-0027	-									-				
Real Time Asset Energy		44700-0000 or 55500-0000 or 55500-0050	-									-				
13a	Excessive Energy Amount	55500-0066	-									-				
Non-Excessive Energy Amount		55500-0069	-									-				
22	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	688,249	0.00			119,434	-			-	201,313			
Day Ahead and Real Time Energy Loss																
Day Ahead Loss		44700-0000 or 55500-0000 or 55500-0050	3,890,985.78		2,427,436.14	-			428,371.08	-		2,855,807.22		747,201.46	-	
1c	Day Ahead Financial Bilateral Transaction Loss	55500-0022	65,550.97		40,674.37	-			7,177.83	-		47,852.20		12,775.13	-	
Real Time Loss		44700-0000 or 55500-0000 or 55500-0050	-		-	-			-	-		-		-		
13c	Real Time Distribution of Losses	55500-0041	(230,000.00)		-	(142,715.00)			-	(25,185.00)		(167,900.00)		-		(44,824.35)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-			-	-		-		-		
Subtotal			3,726,536.74	688,249	2,468,110.51	688,249	(142,715.00)	119,434	435,548.91	119,434	(25,185.00)	2,735,759.42	201,313	759,976.59	201,313	(44,824.35)
Virtual Energy																
12	Day Ahead Virtual Energy	55500-0030	-		-	-			-	-		-				
27	Real Time Virtual Energy	55500-0049	-		-	-			-	-		-				
Subtotal			-	688,249	-	688,249	-	119,434	-	119,434	-	-	201,313	-	201,313	-
Schedule 16 & 17 1/																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00		89,352.00	-			15,768.00	-		105,120.00		28,063.94	-	
19	Real Time Market Administration (Schedule 17)	55500-0036	15,000.00		9,307.50	-			1,642.50	-		10,950.00		2,923.33	-	
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00		2,109.70	-			372.30	-		2,482.00		662.62	-	
Subtotal			162,400.00	688,249	100,769.20	688,249	-	119,434	17,782.80	119,434	-	118,552.00	201,313	31,649.89	201,313	-
Congestion, FTRs & ARRs																
Day Ahead Congestion		44700-0000 or 55500-0000 or 55500-0050	-		-	-			-	-		-		-		
1b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-	-			-	-		-		-		
13b	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	65,550.97		40,674.37	-			7,177.83	-		47,852.20		12,775.13	-	
2	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-	-			-	-		-		-		
15	Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)		-	(204,144.50)			-	(36,025.50)		(240,170.00)		-		(64,118.32)
Financial Transmission Rights Annual Transaction Amount		55500-0059	(48,000.00)		-	(29,784.00)			-	(5,256.00)		(35,040.00)		-		(9,354.65)
Auction Revenue Rights Infeasible Uplift Amount		55500-0060	9,700.00		6,018.85	-			1,062.15	-		7,081.00		1,890.42	-	
Auction Revenue Rights Stage 2 Distribution Amount		55500-0061	(90,000.00)		-	(55,845.00)			-	(9,855.00)		(65,700.00)		-		(17,539.96)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-	-			-	-		-		-		
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-	-			-	-		-		-		
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-	-			-	-		-		-		
Financial Transmission Rights Full Funding Guarantee Amount		55500-0054	-		-	-			-	-		-		-		
FTR Guarantee Uplift Amount		55500-0055	-		-	-			-	-		-		-		
Financial Transmission Rights Monthly Transaction Amount		55500-0056	-		-	-			-	-		-		-		
31	Financial Transmission Rights Transaction	55500-0034	-		-	-			-	-		-		-		
Subtotal			(391,749.03)	688,249	46,693.22	688,249	(289,773.50)	119,434	8,239.98	119,434	(51,136.50)	(285,976.80)	201,313	14,665.55	201,313	(91,012.93)
RSG & Make Whole Payments																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00		15,512.50	-			2,737.50	-		18,250.00		4,872.21	-	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)		-	(8,066.50)			-	(1,423.50)		(9,490.00)		-		(2,533.55)
Real Time Price Volatility Make Whole Payment		55500-0057	(5,000.00)		-	(3,102.50)			-	(547.50)		(3,650.00)		-		(974.44)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00		40,332.50	-			7,117.50	-		47,450.00		12,667.75	-	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)		-	(11,169.00)			-	(1,971.00)		(13,140.00)		-		(3,507.99)
Subtotal			54,000.00	688,249	55,845.00	688,249	(22,338.00)	119,434	9,855.00	119,434	(3,942.00)	39,420.00	201,313	17,539.96	201,313	(7,015.99)
RNU & Misc Charges																
20	Real Time Miscellaneous	55500-0042	-		-	-			-	-		-		-		
21	Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)		-	(1,241.00)			-	(219.00)		(1,460.00)		-		(389.78)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00		117,895.00	-			20,805.00	-		138,700.00		37,028.81	-	
26	Real Time Uninstructed Deviation	55500-0048	-		-	-			-	-		-		-		
27	Demand Response Allocation Uplift Amount	55500-0077	9,000.00		5,584.50	-			985.50	-		6,570.00		1,754.00	-	
33	Day Ahead Ramp Capability Amount	55500-0079	-		-	-			-	-		-		-		
34	Real Time Ramp Capability Amount	55500-0080	-		-	-			-	-		-		-		
Real Time Schedule 49 Cost Distribution Amount		55500-0081	13,000.00		8,066.50	-			1,423.50	-		9,490.00		2,533.55	-	
Subtotal			210,000.00	688,249	131,546.00	688,249	(1,241.00)	119,434	23,214.00	119,434	(219.00)	153,300.00	201,313	41,316.36	201,313	(389.78)
Grandfathered Charge Types																
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-	-			-	-		-		-		
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-	-			-	-		-		-		
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-	-			-	-		-		-		
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-	-			-	-		-		-		
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-	-			-	-		-		-		
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-	-			-	-		-		-		
Subtotal			-	688,249	-	688,249	-	119,434	-	119,434	-	-	201,313	-	201,313	-
ASM Charge Types (12 Other)																
Day Ahead Regulation Amount		55500-0062	(64,000.00)		-	(39,712.00)			-	(7,008.00)		(46,720.00)		-		(12,472.86)
Day Ahead Spinning Reserve Amount		55500-0063	(43,000.00)		-	(26,681.50)			-	(4,708.50)		(31,390.00)		-		(8,380.21)
Day Ahead Supplemental Reserve Amount		55500-0064	-		-	-			-	-		-		-		
Contingency Reserve Deployment Failure Charge Amount		55500-0065	-		-	-			-	-		-		-		
Net Regulation Adjustment Amount		55500-0068	-		-	-			-	-		-		-		
Real Time Regulation Amount		55500-0070	17,000.00		10,548.50	-			1,861.50	-		12,410.00		3,313.10	-	
Regulation Reserve Cost Distribution Amount		55500-0071	35,000.00		21,717.50	-			3,832.50	-		25,550.00		6,821.10	-	
Real-Time Excessive Deficient Deployment Charge Amount		55500-0067	23,000.00		14,271.50	-			2,518.50	-		16,790.00		4,482.44	-	
Real Time Spinning Reserve Amount		55500-0072	7,000.00		4,343.50	-			766.50	-		5,110.00		1,364.22	-	
Spinning Reserve Cost Distribution Amount		55500-0073	30,000.00		18,615.00	-			3,285.00	-		21,900.00		5,846.65	-	
Real Time Supplemental Reserve Amount		55500-0074	-		-	-			-	-		-		-		
Supplemental Reserve Cost Distribution Amount		55500-0075	8,000.00		4,964.00	-			876.00	-		5,840.00		1,559.11	-	
Day Ahead Short-Term Reserve Amount		55500-0082	(14,000.00)		-	(8,687.00)			-	(1,533.00)		(10,220.00)		-		(2,728.44)
Real-Time Short-Term Reserve Amount		55500-0083	3,000.00		1,861.50	-			328.50	-		2,190.00		584.67	-	
Short-Term Reserve Cost Distribution Amount		55500-0084	19,000.00		11,789.50	-			2,080.50	-		13,870.00		3,702.88	-	
Short-Term Reserve Deployment Failure Charge Amount		55500-0085	-		-	-			-	-		-		-		
Subtotal			21,000.00	688,249	88,111.00	688,249	(75,080.50)	119,434	15,549.00	119,434	(13,249.50)	15,330.00	201,313	27,674.17	201,313	(23,581.51)
Grand Total			3,782,187.71	688,249	2,891,074.93	688,249	(531,148.00)	119,434	510,189.69	119,434	(93,732.00)	2,776,384.63	201,313	892,822.53	201,313	(166,824.56)

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)
2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE
3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines

Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE

DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER

MISO MONTHLY ALLOCATION

MINNESOTA POWER		Account	December 2023				MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION			Number																			
Day Ahead and Real Time Energy																						
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																				
Day Ahead Non-Asset Energy	55500-0027	-																				
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-																				
Excessive Energy Amount	55500-0066	-																				
Non-Excessive Energy Amount	55500-0069	-																				
Real Time Non-Asset Energy	55500-0043	-																				
Subtotal		-	2,010									77,587					106,513					
Day Ahead and Real Time Energy Loss																						
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	3,890,985.78											287,977.09		-			-		-		
Day Ahead Financial Bilateral Transaction Loss	55500-0022	65,550.97											4,923.63		-			-		-		
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-																-		-		
Real Time Distribution of Losses	55500-0041	(230,000.00)													(17,275.65)			-		-		
Real Time Financial Bilateral Transaction Loss	55500-0038	-													-			-		-		
Subtotal		3,726,536.74	2,010	-	2,010	-	-	-	-	-	-	77,587	292,900.73	77,587	(17,275.65)		106,513	-	106,513	-		
Virtual Energy																						
Day Ahead Virtual Energy	55500-0030	-																				
Real Time Virtual Energy	55500-0049	-																				
Subtotal		-	2,010	-	2,010	-	-	-	-	-	-	77,587		77,587	-		106,513	-	106,513	-		
Schedule 16 & 17 - 1/																						
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00											10,816.06		-			-		-		
Real Time Market Administration (Schedule 17)	55500-0036	15,000.00											1,126.67		-			-		-		
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,400.00											255.38		-			-		-		
Subtotal		162,400.00	2,010	-	2,010	-	-	-	-	-	-	77,587	12,198.11	77,587	-		106,513	-	106,513	-		
Congestion, FTRs & ARRs																						
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-											-		-			-		-		
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-											-		-			-		-		
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	65,550.97											4,923.63		-			-		-		
Real Time Financial Bilateral Transaction Congestion	55500-0037	-											-		-			-		-		
Auction Revenue Rights Transaction Amount	55500-0058	(329,000.00)											-		(24,711.68)			-		-		
Financial Transmission Rights Annual Transaction Amount	55500-0059	(48,000.00)											-		(3,605.35)			-		-		
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	9,700.00											728.58		-			-		-		
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(90,000.00)											-		(6,760.04)			-		-		
Financial Transmission Rights Hourly Allocation	55500-0032	-											-		-			-		-		
Financial Transmission Rights Monthly Allocation	55500-0033	-											-		-			-		-		
Financial Transmission Rights Yearly Allocation	55500-0035	-											-		-			-		-		
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-											-		-			-		-		
FTR Guarantee Uplift Amount	55500-0055	-											-		-			-		-		
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-											-		-			-		-		
Financial Transmission Rights Transaction	55500-0034	-											-		-			-		-		
Subtotal		(391,749.03)	2,010	-	2,010	-	-	-	-	-	-	77,587	5,652.21	77,587	(35,077.07)		106,513	-	106,513	-		
RSG & Make Whole Payments																						
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,000.00											1,877.79		-			-		-		
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13,000.00)											-		(976.45)			-		-		
Real Time Price Volatility Make Whole Payment	55500-0057	(5,000.00)											-		(375.56)			-		-		
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	65,000.00											4,882.25		-			-		-		
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(18,000.00)											-		(1,352.01)			-		-		
Subtotal		54,000.00	2,010	-	2,010	-	-	-	-	-	-	77,587	6,760.04	77,587	(2,704.01)		106,513	-	106,513	-		
RNU & Misc Charges																						
Real Time Miscellaneous	55500-0042	-											-		-			-		-		
Real Time Net Inadvertent Distribution	55500-0044	(2,000.00)													(150.22)			-		-		
Real Time Revenue Neutrality Uplift Amount	55500-0045	190,000.00											14,271.19		-			-		-		
Real Time Uninstructed Deviation	55500-0048	-											-		-			-		-		
Demand Response Allocation Uplift Amount	55500-0077	9,000.00											676.00		-			-		-		
Day Ahead Ramp Capability Amount	55500-0079	-											-		-			-		-		
Real Time Ramp Capability Amount	55500-0080	-											-		-			-		-		
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,000.00											976.45		-			-		-		
Subtotal		210,000.00	2,010	-	2,010	-	-	-	-	-	-	77,587	15,923.64	77,587	(150.22)		106,513	-	106,513	-		
Grandfathered Charge Types																						
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-																-		-		
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-																-		-		
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-																-		-		
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-																-		-		
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-																-		-		
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-																-		-		
Subtotal		-	2,010	-	2,010	-	-	-	-	-	-	77,587	-	77,587	-		106,513	-	106,513	-		
ASM Charge Types (12 Other)																						
Day Ahead Regulation Amount	55500-0062	(64,000.00)											-		(4,807.14)			-		-		
Day Ahead Spinning Reserve Amount	55500-0063	(43,000.00)													(3,229.79)			-		-		
Day Ahead Supplemental Reserve Amount	55500-0064	-											-		-			-		-		
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-											-		-			-		-		
Net Regulation Adjustment Amount	55500-0068	-											-		-			-		-		
Real Time Regulation Amount	55500-0070	17,000.00											1,276.90		-			-		-		
Regulation Reserve Cost Distribution Amount	55500-0071	35,000.00											2,628.90		-			-		-		
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,000.00											1,727.56		-			-		-		
Real Time Spinning Reserve Amount	55500-0072	7,000.00											525.78		-			-		-		
Spinning Reserve Cost Distribution Amount	55500-0073	30,000.00											2,253.35		-			-		-		
Real Time Supplemental Reserve Amount	55500-0074	-											-		-			-		-		
Supplemental Reserve Cost Distribution Amount	55500-0075	8,000.00											600.89		-			-		-		
Day Ahead Short-Term Reserve Amount	55500-0082	(14,000.00)											-		(1,051.56)			-		-		
Real-Time Short-Term Reserve Amount	55500-0083	3,000.00											225.33		-			-		-		
Short-Term Reserve Cost Distribution Amount	55500-0084	19,000.00											1,427.12		-			-		-		
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-											-		-			-		-		
Subtotal		21,000.00	2,010	-	2,010	-	-	-	-	-	-	77,587	10,665.83	77,587	(9,088.49)		106,513	-	106,513	-		
Grand Total		3,782,187.71	2,010	-	2,010	-	-	-	-	-	-	77,587	344,100.55	77,587	(64,295.44)		106,513	-	106,513	-		

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	January 2023 - December 2023	FPE Retail				FAC Resale				Subtotal FAC Cost/(Revenue)	MISO Non-Liquidation			
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																
Day Ahead Asset Energy		44700-0000 or 55500-0000 or 55500-0050	-									-				
1a	Day Ahead Non-Asset Energy	55500-0027	-									-				
5	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-									-				
13a	Excessive Energy Amount	55500-0066	-									-				
	Non-Excessive Energy Amount	55500-0069	-									-				
22	Real Time Non-Asset Energy	55500-0043	-									-				
Subtotal			-	7,651,503	-			1,326,588	-			-	2,419,564			
Day Ahead and Real Time Energy Loss																
Day Ahead Loss		44700-0000 or 55500-0000 or 55500-0050	51,623,062.64		31,876,505.20	-		5,546,629.68	-			37,423,134.88	10,329,679.68			-
1c	Day Ahead Financial Bilateral Transaction Loss	55500-0022	767,907.94		475,995.48	-		82,513.84	-			558,509.32	151,695.35			-
3	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-		-	-		-	-			-	-			-
13c	Real Time Distribution of Losses	55500-0041	(2,760,000.00)		-	(1,706,163.00)		-	(297,137.00)			(2,003,300.00)	-			(548,972.60)
14	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-		-	-			-	-			-
16	Subtotal		49,630,970.58	7,651,503	32,352,500.68	7,651,503	(1,706,163.00)	1,326,588	5,629,143.52	1,326,588	(297,137.00)	35,978,344.20	2,419,564	10,481,375.03	2,419,564	(548,972.60)
Virtual Energy																
Day Ahead Virtual Energy		55500-0030	-		-	-		-	-			-				
12	Real Time Virtual Energy	55500-0049	-		-	-		-	-			-				
27	Subtotal		-	7,651,503	-	7,651,503	-	1,326,588	-	1,326,588	-	-	2,419,564	-	2,419,564	-
Schedule 16 & 17 1/																
Day Ahead Market Administration (Schedule 17)		55500-0020	1,728,000.00		1,068,206.40	-		186,033.60	-			1,254,240.00		343,704.59		-
4	Real Time Market Administration (Schedule 17)	55500-0036	180,000.00		111,271.50	-		19,378.50	-			130,650.00		35,802.56		-
19	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	40,800.00		25,221.54	-		4,392.46	-			29,614.00		8,115.25		-
29	Subtotal		1,948,800.00	7,651,503	1,204,699.44	7,651,503	-	1,326,588	209,804.56	1,326,588	-	1,414,504.00	2,419,564	387,622.40	2,419,564	-
Congestion, FTRs & ARRs																
Day Ahead Congestion		44700-0000 or 55500-0000 or 55500-0050	-		-	-		-	-			-	-			-
1b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-		-	-		-	-			-	-			-
13b	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	767,907.94		475,995.48	-		82,513.84	-			558,509.32	151,695.35			-
2	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-	-		-	-			-	-			-
15	Auction Revenue Rights Transaction Amount	55500-0058	(3,948,000.00)		-	(2,440,554.90)		-	(425,035.10)			(2,865,590.00)	-			(785,269.51)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(576,000.00)		-	(356,068.80)		-	(62,011.20)			(418,080.00)	-			(114,568.20)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	116,400.00		71,955.57	-		12,531.43	-			84,487.00	23,152.32			-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(1,080,000.00)		-	(667,629.00)		-	(116,271.00)			(783,900.00)	-			(214,815.37)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-		-	-		-	-			-	-			-
30	Financial Transmission Rights Monthly Allocation	55500-0033	-		-	-		-	-			-	-			-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-	-		-	-			-	-			-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-		-	-		-	-			-	-			-
	FTR Guarantee Uplift Amount	55500-0055	-		-	-		-	-			-	-			-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-	-		-	-			-	-			-
31	Financial Transmission Rights Transaction	55500-0034	-		-	-		-	-			-	-			-
Subtotal			(4,719,692.06)	7,651,503	547,951.05	7,651,503	(3,464,252.70)	1,326,588	95,045.27	1,326,588	(603,317.30)	(3,424,573.68)	2,419,564	174,847.67	2,419,564	(1,114,653.07)
RSG & Make Whole Payments																
Day Ahead Revenue Sufficiency Guarantee Distribution		55500-0028	300,000.00		185,452.50	-		32,297.50	-			217,750.00		59,670.94		-
10	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(156,000.00)		-	(96,435.30)		-	(16,794.70)			(113,230.00)	-			(31,028.89)
11	Real Time Price Volatility Make Whole Payment	55500-0057	(60,000.00)		-	(37,090.50)		-	(6,459.50)			(43,550.00)	-			(11,934.19)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	780,000.00		482,176.50	-		83,973.50	-			566,150.00	155,144.43			-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(216,000.00)		-	(133,525.80)		-	(23,254.20)			(156,780.00)	-			(42,963.07)
Subtotal			648,000.00	7,651,503	667,629.00	7,651,503	(267,051.60)	1,326,588	116,271.00	1,326,588	(46,508.40)	470,340.00	2,419,564	214,815.37	2,419,564	(85,926.15)
RNU & Misc Charges																
Real Time Miscellaneous		55500-0042	-		-	-		-	-			-	-			-
20	Real Time Net Inadvertent Distribution	55500-0044	(24,000.00)		-	(14,836.20)		-	(2,583.80)			(17,420.00)	-			(4,773.67)
21	Real Time Revenue Neutrality Uplift Amount	55500-0045	2,280,000.00		1,409,439.00	-		245,461.00	-			1,654,900.00	453,499.11			-
23	Real Time Uninstructed Deviation Demand Response Allocation Uplift Amount	55500-0048	-		-	-		-	-			-	-			-
26	Day Ahead Ramp Capability Amount	55500-0077	108,000.00		66,762.90	-		11,627.10	-			78,390.00	21,481.54			-
33	Real Time Ramp Capability Amount	55500-0079	-		-	-		-	-			-	-			-
34	Real Time Schedule 49 Cost Distribution Amount	55500-0081	156,000.00		96,435.30	-		16,794.70	-			113,230.00	31,028.89			-
Subtotal			2,520,000.00	7,651,503	1,572,637.20	7,651,503	(14,836.20)	1,326,588	273,882.80	1,326,588	(2,583.80)	1,829,100.00	2,419,564	506,009.53	2,419,564	(4,773.67)
Grandfathered Charge Types																
Day Ahead Congestion Rebate on Carve-Out Grandfathered		55500-0023	-		-	-		-	-			-	-			-
6	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-	-		-	-			-	-			-
7	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-	-		-	-			-	-			-
8	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-	-		-	-			-	-			-
9	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-	-		-	-			-	-			-
17	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-	-		-	-			-	-			-
18	Subtotal		-	7,651,503	-	7,651,503	-	1,326,588	-	1,326,588	-	-	2,419,564	-	2,419,564	-
ASM Charge Types (12 Other)																
Day Ahead Regulation Amount		55500-0062	(768,000.00)		-	(474,758)		-	(82,682)			(557,440.00)	-			(152,758)
	Day Ahead Spinning Reserve Amount	55500-0063	(516,000.00)		-	(318,978)		-	(55,552)			(374,530.00)	-			(102,634)
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-	-		-	-			-	-			-
	Contingency Reserve Deployment	55500-0065	-		-	-		-	-			-	-			-
	Failure Charge Amount	55500-0066	-		-	-		-	-			-	-			-
	Net Regulation Adjustment Amount	55500-0068	-		-	-		-	-			-	-			-
	Real Time Regulation Amount	55500-0070	204,000.00		126,108	-		21,962	-			148,070.00	40,576			-
	Regulation Reserve Cost Distribution Amount	55500-0071	420,000.00		259,634	-		45,217	-			304,850.00	83,539			-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	276,000.00		170,616	-		29,714	-			200,330.00	54,897			-
	Real Time Spinning Reserve Amount	55500-0072	84,000.00		51,927	-		9,043	-			60,970.00	16,708			-
	Spinning Reserve Cost Distribution Amount	55500-0073	360,000.00		222,543	-		38,757	-			261,300.00	71,605			-
	Real Time Supplemental Reserve Amount	55500-0074	-		-	-		-	-			-	-			-
	Supplemental Reserve Cost Distribution Amount	55500-0075	96,000.00		59,345	-		10,335	-			69,680.00	19,095			-
	Day Ahead Short-Term Reserve Amount	55500-0082	(168,000.00)		-	(103,853)		-	(18,087)			(121,940.00)	-			(33,416)
	Real-Time Short-Term Reserve Amount	55500-0083	36,000.00		22,254	-		3,876	-			26,130.00	7,161			-
	Short-Term Reserve Cost Distribution Amount	55500-0084	228,000.00		140,944	-		24,546	-			165,490.00	45,350			-
	Short-Term Reserve Deployment	55500-0085	-		-	-		-	-			-	-			-
	Failure Charge Amount	55500-0085	-		-	-		-	-			-	-			-
Subtotal			252,000.00	7,651,503	1,053,370.20	7,651,503	(897,590.10)	1,326,588	183,449.80	1,326,588	(156,319.90)	182,910.00	2,419,564	338,930.91	2,419,564	(288,807.33)
Grand Total			50,280,078.51	7,651,503	37,398,787.57	7,651,503	(6,349,893.60)	1,326,588	6,507,596.95	1,326,588	(1,105,866.40)	36,450,624.52	2,419,564	12,103,600.91	2,419,564	(2,043,132.82)

MINNESOTA POWER		Account	January 2023 - December 2023	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy																			
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050		-																
Day Ahead Non-Asset Energy	55500-0027		-																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		-																
Excessive Energy Amount	55500-0066		-																
Non-Excessive Energy Amount	55500-0069		-																
Real Time Non-Asset Energy	55500-0043		-																
Subtotal			-	65,565				-			904,210					1,226,928			
Day Ahead and Real Time Energy Loss																			
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		51,623,062.64		-		-		-		-		3,870,248.09		-		-		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022		767,907.94		-		-		-		-		57,703.26		-		-		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		-		-		-		-		-		-		-		-		-
Real Time Distribution of Losses	55500-0041		(2,760,000.00)		-		-		-		-		-		(207,727.40)		-		-
Real Time Financial Bilateral Transaction Loss	55500-0038		-		-		-		-		-		-		-		-		-
Subtotal			49,630,970.58	65,565	-	65,565	-	-	-	-	-	904,210	3,927,951.35	904,210	(207,727.40)	1,226,928	-	1,226,928	-
Virtual Energy																			
Day Ahead Virtual Energy	55500-0030		-																
Real Time Virtual Energy	55500-0049		-																
Subtotal			-	65,565	-	65,565	-	-	-	-	-	904,210	-	904,210	-	1,226,928	-	1,226,928	-
Schedule 16 & 17 1/																			
Day Ahead Market Administration (Schedule 17)	55500-0020		1,728,000.00		-		-		-		-		130,055.41		-		-		-
Real Time Market Administration (Schedule 17)	55500-0036		180,000.00		-		-		-		-		13,547.44		-		-		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		40,800.00		-		-		-		-		3,070.75		-		-		-
Subtotal			1,948,800.00	65,565	-	65,565	-	-	-	-	-	904,210	146,673.60	904,210	-	1,226,928	-	1,226,928	-
Congestion, FTRs & ARRs																			
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		-		-		-		-		-		-		-		-		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		-		-		-		-		-		-		-		-		-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		767,907.94		-		-		-		-		57,703.26		-		-		-
Real Time Financial Bilateral Transaction Congestion	55500-0037		-		-		-		-		-		-		-		-		-
Auction Revenue Rights Transaction Amount	55500-0058		(3,948,000.00)		-		-		-		-		-		(297,140.49)		-		-
Financial Transmission Rights Annual Transaction Amount	55500-0059		(576,000.00)		-		-		-		-		-		(43,351.80)		-		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		116,400.00		-		-		-		-		8,760.68		-		-		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(1,080,000.00)		-		-		-		-		-		(81,284.63)		-		-
Financial Transmission Rights Hourly Allocation	55500-0032		-		-		-		-		-		-		-		-		-
Financial Transmission Rights Monthly Allocation	55500-0033		-		-		-		-		-		-		-		-		-
Financial Transmission Rights Yearly Allocation	55500-0035		-		-		-		-		-		-		-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		-		-		-		-		-		-		-		-		-
FTR Guarantee Uplift Amount	55500-0055		-		-		-		-		-		-		-		-		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-		-		-		-		-		-		-		-		-
Financial Transmission Rights Transaction	55500-0034		-		-		-		-		-		-		-		-		-
Subtotal			(4,719,692.06)	65,565	-	65,565	-	-	-	-	-	904,210	66,463.94	904,210	(421,776.93)	1,226,928	-	1,226,928	-
RSG & Make Whole Payments																			
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		300,000.00		-		-		-		-		22,579.06		-		-		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(156,000.00)		-		-		-		-		-		(11,741.11)		-		-
Real Time Price Volatility Make Whole Payment	55500-0057		(60,000.00)		-		-		-		-		-		(4,515.81)		-		-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		780,000.00		-		-		-		-		58,705.57		-		-		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(216,000.00)		-		-		-		-		-		(16,256.93)		-		-
Subtotal			648,000.00	65,565	-	65,565	-	-	-	-	-	904,210	81,284.63	904,210	(32,513.85)	1,226,928	-	1,226,928	-
RNU & Misc Charges																			
Real Time Miscellaneous	55500-0042		-		-		-		-		-		-		-		-		-
Real Time Net Inadvertent Distribution	55500-0044		(24,000.00)		-		-		-		-		-		(1,806.33)		-		-
Real Time Revenue Neutrality Uplift Amount	55500-0045		2,280,000.00		-		-		-		-		171,600.89		-		-		-
Real Time Uninstructed Deviation	55500-0048		-		-		-		-		-		-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077		108,000.00		-		-		-		-		8,128.46		-		-		-
Day Ahead Ramp Capability Amount	55500-0079		-		-		-		-		-		-		-		-		-
Real Time Ramp Capability Amount	55500-0080		-		-		-		-		-		-		-		-		-
Real Time Schedule 49 Cost Distribution Amount	55500-0081		156,000.00		-		-		-		-		11,741.11		-		-		-
Subtotal			2,520,000.00	65,565	-	65,565	-	-	-	-	-	904,210	191,470.47	904,210	(1,806.33)	1,226,928	-	1,226,928	-
Grandfathered Charge Types																			
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023		-		-		-		-		-		-		-		-		-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024		-		-		-		-		-		-		-		-		-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025		-		-		-		-		-		-		-		-		-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026		-		-		-		-		-		-		-		-		-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040		-		-		-		-		-		-		-		-		-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039		-		-		-		-		-		-		-		-		-
Subtotal			-	65,565	-	65,565	-	-	-	-	-	904,210	-	904,210	-	1,226,928	-	1,226,928	-
ASM Charge Types (12 Other)																			
Day Ahead Regulation Amount	55500-0062		(768,000.00)		-		-		-		-		-		(57,802)		-		-
Day Ahead Spinning Reserve Amount	55500-0063		(516,000.00)		-		-		-		-		-		(38,836)		-		-
Day Ahead Supplemental Reserve Amount	55500-0064		-		-		-		-		-		-		-		-		-
Contingency Reserve Deployment			-		-		-		-		-		-		-		-		-
Failure Charge Amount	55500-0065		-		-		-		-		-		-		-		-		-
Net Regulation Adjustment Amount	55500-0068		-		-		-		-		-		-		-		-		-
Real Time Regulation Amount	55500-0070		204,000.00		-		-		-		-		15,354		-		-		-
Regulation Reserve Cost Distribution Amount	55500-0071		420,000.00		-		-		-		-		31,611		-		-		-
Real-Time Excessive Deficient			-		-		-		-		-		-		-		-		-
Deployment Charge Amount	55500-0067		276,000.00		-		-		-		-		20,773		-		-		-
Real Time Spinning Reserve Amount	55500-0072		84,000.00		-		-		-		-		6,322		-		-		-
Spinning Reserve Cost Distribution Amount	55500-0073		360,000.00		-		-		-		-		27,095		-		-		-
Real Time Supplemental Reserve Amount	55500-0074		-		-		-		-		-		-		-		-		-
Supplemental Reserve Cost Distribution Amount	55500-0075		96,000.00		-		-		-		-		7,225		-		-		-
Day Ahead Short-Term Reserve Amount	55500-0082		(168,000.00)		-		-		-		-		-		(12,644)		-		-
Real-Time Short-Term Reserve Amount	55500-0083		36,000.00		-		-		-		-		2,709		-		-		-
Short-Term Reserve Cost Distribution Amount	55500-0084		228,000.00		-		-		-		-		17,160		-		-		-
Short-Term Reserve Deployment			-		-		-		-		-		-		-		-		-
Failure Charge Amount	55500-0085		-		-		-		-		-		-		-		-		-
Subtotal			252,000.00	65,565	-	65,565	-	-	-	-	-	904,210	128,249.09	904,210	(109,282.67)	1,226,928	-	1,226,928	-
Grand Total			50,280,078.51	65,565	-	65,565	-	-	-	-	-	904,210	4,542,093.08	904,210	(773,107.18)	1,226,928	-	1,226,928	-

Treatment of Auction Revenue Rights
Docket No. E015/M-05-277

The FTR and ARR MISO charge types are allocated consistent with current Minnesota Power's allocation methods. Charges are allocated to the retail and wholesale customers based on a per MWh basis.

January through December 2023 is based on actual allocations from the previous year as the Annual ARR Allocation was not completed at the time of submittal. This is consistent with what was used in Attachment 3 – MISO Costs. Monthly detail of the forecasted FTR and ARR MISO Charge types can be found in Attachment 3.

2023 Estimated Annual Allocation											
		Winter (Jan-Feb)		Spring		Summer		Fall		Winter (Dec)	
Source	Sink	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak
[TRADE SECRET DATA BEGINS]											
[TRADE SECRET DATA ENDS]											

**Forecasted Planned and Forced Outages and
Forecasted Replacement Power Costs**
Docket No. E999/AA-08-995

Outage Methodology for Large Units (Boswell Units 3 & 4)

Planned Outage Methodology

Long-term planned outage schedules for Boswell Energy Center are based on Original Equipment Manufacturer (“OEM”) guidelines, FM Global Insurance provider recommendations, and historical plant operational and maintenance records.

Planned outages are scheduled for major turbine maintenance. For Boswell Units 3 and 4, the OEM guidelines recommend a major inspection and maintenance of the turbine every 100,000 hours, or approximately every 10 years. The major turbine maintenance planned outages are typically 8-10 weeks in duration.

The Low Pressure (“LP”) turbine, turbine valves, and generator inspections and repairs are scheduled based on the OEM recommended intervals. The OEM recommendations are to inspect valves, generators, and LP turbine every five years. The valve and generator planned outages are typically 4-6 weeks in duration.

Planned outages are scheduled between the major five and ten-year outages for major boiler related outages, including boiler chemical cleans. The major boiler planned outages are typically 2-4 weeks in duration. The actual outage length is adjusted for the known work scope.

Planned outages are then scheduled for inspections, boiler cleaning and other identified work in order to ensure unit reliability in the higher demand seasons of winter and summer. One of the reasons for frequent boiler inspection is to assure that the combustion systems and pollution control equipment are operating as designed to assure compliance. The outages are typically 3-10 days. If the unit has a longer unplanned/forced outage that is close to the next planned outage, the planned outage duration and/or timing may be adjusted due to planned outage work being performed during unplanned/forced outages. The goal is always to minimize the overall number of days a year a unit is unavailable for service.

Planned maintenance outages are scheduled for a minimum rolling 24-month period and updated on a daily basis as needed per MISO requirements. In addition, the 10-year long-term planned outage schedule is reviewed and updated at least annually.

Unplanned Outage Methodology

Minnesota Power utilizes the average of the previous ten years of the NERC Generating Availability Data System ("GADS") Equivalent Unplanned Outage Factor ("EUOF") to calculate unplanned outages. The EUOF is the percent of hours during the year (given period) the unit was in an unplanned outage. The ten-year average ensures one good or bad year does not over- or under-state forecasted unit performance.

Causes of Unplanned Outages

Tube Leaks

Tube leaks are statistically the most common cause of outages in coal fired power plants. The following are the most common causes of tube leaks:

Thermal fatigue manifests itself as cracking of the boiler tubes - sometimes as very small "micro" cracks and sometimes as large cracks. This occurs as a result of changing boiler temperatures, usually when the boiler swings up or down to follow load and when the boilers start up and shut down. This is a similar effect to bending a paper clip back and forth - after so many cycles it eventually breaks. Minimizing boiler "swings" (base loading) helps decrease the impact of thermal fatigue. However, with the energy markets being what they are with the ever increasing impacts of intermittent wind generation, we are seeing more and more swings in output.

Soot blower erosion occurs throughout the boiler in every soot blower location. Soot blowers use high pressure steam or high pressure air to do the cleaning. The ash removal is necessary to prevent the boiler from plugging up. When the boiler plugs up, it restricts air flow which will cause the boiler to come offline and require manual ash and slag removal. Common practices to mitigate soot blower erosion are to add a weld overlay (commonly called "pad welding") to existing tubes, add tube shields which are essential sacrificial attachments to the tubes, change soot blower media pressure (usually not an option), and replace tubes in the affected areas. The use of the soot blowers is essential in keeping the units on line. Coal composition can differ from mine to mine or even within the same mine. As we look to find the best low cost fuel blend for our customers, certain coals may cause more fouling than others. The increased potential of this fouling requires

both the frequency and duration of soot blowing to increase which minimizes the buildup on the boiler tubes. Due to increased soot blowing activities, we have implemented the use of different weld overlay alloys throughout the boiler in an effort to maintain unit reliability.

Fly ash erosion occurs when fly ash and combustion gases pass rapidly across superheated boiler tube surfaces. Because of the abrasiveness of fly ash, the surface of boiler tubes in the high flow areas slowly erode. Many things contribute to the amount of erosion, such as gas path restrictions (plugging - see reasons for soot blowing above), variations in coal quality (higher ash content), and other additives that are added to the fuel mix typically for emission control, etc.

Chemical attack is becoming a common source of tube failures due to the corrosiveness of many of the additives being used to control emissions. When these chemicals come in contact with very hot boiler tubes, their normal corrosiveness is significantly increased. Since there tend to be few options for using alternate less corrosive additives, a common solution is to look at tube materials that perform better in the corrosive environment. This is usually a very expensive fix and can have environmental compliance implications.

Corrosion fatigue occurs as a co-joint action of cyclic strain and a corrosive environment acting to produce failure earlier than pure fatigue or corrosion acting along. Boswell 3 has been especially prone to this due to the original boiler design.

Dissimilar metal welds "DMW" failures occur at the weld juncture where carbon steel or low alloy steels (ferritic side) are welded to stainless or higher alloy steels (austenitic side) and used in high temperature applications. The large difference in coefficient of expansion of the two steels, which is exacerbated by thermal cycling, results in cracking at the toe of the weld joining the two materials. Using austenitic stainless filler material for the DMW junction, which is required when making these weld joints, also increases the stress on the toe of the weld on the ferritic side of the weldment.

Minnesota Power's boiler reliability program proactively identifies areas of the boilers where tube leaks are likely to occur to reduce the risk of future failures. The program uses a combination of visual inspections, non-destructive testing methods, tube sample

analysis, tube failure history, and industry experiences to minimize forced outages due to unexpected tube leaks.

To give some perspective on the challenges with any boiler reliability program, consider the following:

- Boswell-3 boiler has 473,891 ft (89.7 miles) of varying diameter boiler tubes
- Boswell-4 boiler has 779,905 ft (147.6 miles) of varying diameter boiler tubes
- The boiler tube surface area where a leak can occur is several hundred thousand square feet in either boiler.

A tube leak usually begins as a very small hole (0.10 inch or less) in the tube wall which can expand rapidly due to the high temperature and pressure. Considering the huge surface area in a boiler and the very small size of a hole or microscopic crack that results in a tube leak, it is very difficult to effectively screen the entire boiler to prevent all tube leaks. As part of our boiler reliability program, whenever there is an opportunity to get into the boiler to do an inspection – during a forced or schedule outage – critical areas are inspected to evaluate erosion and to determine if repairs are needed. This information is used to plan for future capital expenditures to help minimize future tube leaks. During these inspection opportunities, small leaks are sometimes found and repaired. When a leak occurs, boiler pressure testing is conducted to identify any additional leaks and repair them to avoid a future forced outage. Similar proactive maintenance practices are routinely followed at the other Minnesota Power thermal facilities.

Non Boiler related outages

Minnesota Power has a Generation Reliability Group that is dedicated to monitoring and improving the reliability of not only the boiler, but also the rotating equipment. The group is comprised of boiler, turbine, pump and pulverizer engineers and specialists as well as specialists in predictive maintenance technologies. They work on a daily basis with the operating and maintenance groups at all facilities to improve the daily operating practices, planning for work and repairs to occur in future outages, and establishing long-term and short-term maintenance plans.

Rotating equipment that is monitored through various predictive technologies is summarized in a monthly reliability meeting with the specific plant. The manager is provided with a monthly scorecard as to their performance as well as identifying concerns and upcoming needs.

Each unit maintains a “hot list” of items that ultimately need to be completed but are awaiting an outage to be addressed because there is an available and safe work around with redundant equipment or operating procedures. Any item that jeopardizes safety or environmental compliance is immediately addressed.

FAC Forecast Assumptions

The FAC Forecast accounts for both planned and unplanned events. The planned outages are based on the long-term planned outage schedule.

Planned Outages:

Unit	Start Time	End Time	Duration in Days	MISO #	Reason
	[TRADE SECRET DATA BEGINS]				
Boswell 3					
Boswell 4					
Boswell 3					
Boswell 4					
	TRADE SECRET DATA ENDS]				

[TRADE SECRET DATA BEGINS [REDACTED]
[REDACTED]
[REDACTED] TRADE SECRET DATA ENDS]

Unplanned Outages:

Generation Specifications			
	Econ Min	Econ Max	EUOF ^{/1}
Boswell Unit 3	75 MW	350 MW	7.2%
Boswell Unit 4	185 MW	580 MW	6.8%

^{/1} The Equivalent Unplanned Outage Factor (“EUOF”) is based on a 10-year average.

	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
	Boswell 3												
	[TRADE SECRET DATA BEGINS]												
Forced Days													
Forced MWhs													
Outage MWhs Replaced by Purchase													
Purchase Price													
Total Forced Cost													
Unit Cost													
Incremental Cost													
Planned Days													
Planned MWhs													
Outage MWhs Replaced by Purchase													
Purchase Price													
Total Planned Cost													
Unit Cost													
Incremental Cost													
Total Outage Costs													
Total Incremental Costs													

TRADE SECRET DATA ENDS]

	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
	Boswell 4												
	[TRADE SECRET DATA BEGINS]												
Forced Days													
Forced MWhs													
Outage MWhs Replaced by Purchase													
Purchase Price													
Total Cost													
Unit Cost													
Incremental Cost													
Planned Days													
Planned MWhs													
Outage MWhs Replaced by Purchase													
Purchase Price													
Total Cost													
Unit Cost													
Incremental Cost													
Total Cost													
Total Incremental Costs													
Total Outage Costs													
Total Incremental Costs													

1/

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Annual Five-Year Projection of Fuel Costs
Minn. Rule 7825.2830

Minnesota Power's five-year projection of fuel costs by source of power is based on data, generated by the Electric Financial Forecast. Forecast data beyond 2023 is available on an annual basis only.

Minnesota Power has six sources of power:

- Steam Generation at Company owned plants,
- Purchased Power from South Shore Energy under a Capacity Dedication Agreement that starts in 2025.
- Purchased Power from Square Butte under a Power Purchase Agreement,
- Purchased Power from MISO wholesale market and from other power suppliers,
- Hydro Power from Company owned generating plants (for which there is no fuel cost), and from other power suppliers, and
- Wind Generation from Company owned generating plants, and from other power suppliers
- Solar Generation from Company owned generating plant, and Community Solar Garden program

The major assumptions in determining the fuel cost projections over the next five-year period are:

1. With the EnergyForward strategy Minnesota Power's steam generation has decreased from historical levels in order to seek a sustainable balance of energy generation that is dependable, affordable and environmentally sound to best serve its customers as stated in the previous two approved integrated resource plans filed in 2013 and 2015. Per the approved 2013 Integrated Resource Plan, in 2015 Minnesota Power retired Taconite Harbor Unit 3 generator (75 MW) and converted its Laskin Energy Center to natural gas which serves as a peaking and reliability resource for customer power supply. Per the approved 2015 Integrated Resource Plan, in fall of 2016 Taconite Harbor units 1 and 2 ("THEC") were idled (150 MW), and are utilized for reliability of the bulk electric system as market conditions require, and cease coal-fired operations by the end of 2020. In the 2021 Intergrated Rescource Plan, Minnesota Power proposed retiring THEC

facility in Septemeber 2021. Minnesota Power announced it ceased coal-fired operation at Boswell units 1 and 2 in December 2018. In the 2021 Intergrated Resource Plan, Minnesota Power has proposed a bold vision and definitive actions to achieve 80 percent carbon reduccion by 2035. In regards to remaining steam generation, per the 2021 Plan Minnesota Power transitioned operations at Boswell Energy Center Unit 3 to economic dispatch in 2021; proposed the early retirement of Unit 3 by year-end 2029 and ceasing coal operations at Minnesota Power's Boswell Energy Center Unit 4 in 2035. For the five-year projection of fuel costs, Boswell 3 was modeled as being on economic dispatch.

2. Total Steam generation costs attributed to coal are expected to [TRADE SECRET DATA BEGINS [REDACTED] [REDACTED] TRADE SECRET DATA ENDS] from 2023 to 2027.
3. Starting in June 2015 purchased generation from Square Butte declined to reflect Minnesota Power's decreased share of the unit's total output of approximately 13 percent in 2023. After 2023, Minnesota Power's share of the output will continue to be reduced per the North Dakota Wind Project and decrease to zero by end of 2025.
4. As part of the *EnergyForward* strategy, Minnesota Power is adding their first efficient gas-fired combined cycle generation to the power supply in 2025. Through a Capacity Dedication Agreement with South Shore Energy, the Company would have received a 50 percent share of the capacity and energy production from the approximate 580 MW NTEC project located in Superior, WI. The Capacity Dedication Agreement was approved by the Commission in October 2018. In September 2021, Minnesota Power announced it is selling a portion of its ownership stake in NTEC to North Dakota-based Basin Electric Power Cooperative. Basin Electric will become a 30 percent owner in the facility and Minnesota Power will retain a 20 percent energy and capacity off take from NTEC. MP will propose an amendment to the CDA to reflect the 2021 sale once the Wisconsin regulatory and legal processes are concluded. The Company

expects delivery of capacity and energy from this project to start January 2025. Today Minnesota Power does not have significant natural gas generation on its system, and the addition of NTEC will represent less than 5% of its overall power supply portfolio. Note that the NTEC project is going through the permitting process in Wisconsin. The exact in service date is unknown due to a longer than expected permitting process in WI. For the 5 year projection an estimated in-service date of 2025 was kept, but that is subject to change until the necessary permits have been granted.

5. Minnesota Power continues to use wholesale market purchases and bilateral contracts to meet its energy requirements.
6. Minnesota Power has about 116 MW of Hydroelectric capabilities for its customer native load. There is no fuel cost associated with this energy source. Hydro generation is projected to **[TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]**. For the FAC Forecast period (2023), Minnesota Power used a hydrological forecast, which can vary from the longer-term expectation mentioned above.
7. Minnesota Power has developed a robust, portfolio-based solar strategy consisting of three pillars of focus: the customer, community and utility to meet and integrate solar power supply. This strategy was submitted on June 1, 2018, as part of the Company's SES Report. Since the July 2016 approval of the 2015 Integrated Resource Plan, Minnesota Power developed its first utility scale project with 10 MW Camp Ripley Solar Project and expanded customer sited solar programs and added a 1.04 MW Community Solar Garden Program. In the 2021 Integrated Resource Plan, Minnesota Power proposed to construct three solar projects totaling 20 MW in the Company's service territory in 2021. The completion of Camp Ripley Solar Project and expanded Community Solar Garden Program, along with the proposed 20 MW of solar projects now expected in late 2022, are Minnesota Power's strategy to comply with the SES.

8. Minnesota Power has developed an energy-rich wind portfolio composed of 875 MW of wind located in North Dakota and Minnesota. The 600 MW of wind energy located in North Dakota is transported across a high-voltage DC line that starts in Center, ND and terminates outside Duluth, MN. Included in the North Dakota wind portfolio is the repowering of the 100 MW Oliver 1 and 2 wind farms in 2020. Oliver 1 and 2 energy is purchased through an amended purchase power agreement with NextEra that was approved by the Commission in November 2018. This repowering project increased Oliver 1 and 2 energy production by [TRADE SECRET BEGINS [REDACTED] TRADE SECRET DATA ENDS] and reduce the PPA pricing by approximately [TRADE SECRET BEGINS [REDACTED] TRADE SECRET ENDS] per year. The remaining 275 MW of wind is located in Minnesota and includes the 250 MW Nobles 2, which came online in December 2020. Minnesota Power's wind portfolio is expected to generate approximately [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] and generate approximately [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] due to the addition of 200 MW of new wind proposed in the 2021 Integrated Resource Plan.

For the 2023 FAC Forecast, Minnesota Power used a meteorological wind speed forecast to estimate wind farm energy production. Post 2023, the long-term wind energy production forecast is based on historical production.

Minnesota Power's 2021 Integrated Resource Plan proposes 200 MW of new wind resources by 2025 and 200 MW of new solar resources that leverages the Boswell site or other Minnesota Power facilities by 2030. The five-year projection includes the 200 MW of new wind addition given it is in the study time period. Note the 2021 Integrated Resource Plan has not been approved by the Commission as of this filing.

Notice of Reports Availability
Minn. Rule 7825.2840



30 West Superior Street
Duluth, MN 55802-2093
www.mnpower.com



Notice of Reports Availability

To: All Intervenors in Minnesota Power
Retail Rate Proceedings
Docket Nos. E015/GR-19-442 and E015/GR-21-335

The Minnesota Public Utilities Commission requires Minnesota Power and other Minnesota public utilities to file various forecast reports concerning utility operations with the Commission as specified in Docket No. E999/CI-03-802. The subject matter of the report filed includes the following:

- 1) Independent Auditor's Report
- 2) Automatic Fuel Adjustment Clause Forecast to Actual Comparison
- 3) MISO Day 2 Charges and Allocations
- 4) ARR Information and Process
- 5) Plant Outage Reporting
- 6) Annual and Daily ASM Charges and Summary
- 7) Report Addressing the Purchase Power Agreement with Manitoba Hydro
- 8) Wind Curtailment Reporting
- 9) Offsetting Revenues and/or Compensation Received by Investor-Owned Utilities (IOUs)
- 10) Generation Facilities Maintenance Expense Report
- 11) Fuel and Energy Source Procurement and Energy Dispatching Policies

Minnesota Rule 7825.2840 requires Minnesota Power to provide this notice of availability of such reports to all Intervenors in the previous two general rate cases. A copy of the above report is available for public inspection at the MPUC offices, 121 East 7th Place, Suite 350, St. Paul, MN 55101-2147, on the Minnesota Department of Commerce edockets website (<https://www.edockets.state.mn.us/EFiling>), or upon written request to the following:

Minnesota Power
Hillary A. Creurer
Regulatory Compliance Administrator
30 West Superior Street
Duluth, MN 55802

Please note that certain information contained in these reports is considered trade secret and is unavailable to the public.

Certificate of Service

It is hereby certified that the foregoing Notice of Report Availability, along with a copy of the report, was delivered to the Minnesota Department of Commerce and the Office of the Attorney General, and the interveners in Minnesota Power's previous two general rate cases.

Minnesota Power

By:

/s/ Hillary A. Creurer

Hillary A. Creurer

Regulatory Compliance Administrator

Dated: May 2, 2022

Attachment No. 7
Page 4 of 26

[illegible]

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Attachment No. 7
Page 5 of 26

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Page 6 of 26

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Page 7 of 26

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Page 8 of 26

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Page 9 of 26

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Eric	Lipman	eric.lipman@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
Patrick	Loupin	PatrickLoupin@Packaging Corp.com	Packaging Corporation of America	PO Box 990050 Boise, ID 83799-0050	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Susan	Ludwig	sludwig@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Kavita	Maini	kmairi@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_19-442_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 10 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Sarah	Manchester	sarah.manchester@sappi.com	Sappi North American	255 State Street Floor 4 Boston, MA 02109-2617	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Emily	Marshall	emarshall@mojlaw.com	Miller O'Brien Jensen, PA	120 S. 6th Street Suite 2400 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Keith	Matzdorf	keith.matzdorf@sappi.com	Sappi Fine Paper North America	PO Box 511 2201 Avenue B Cloquet, MN 55720	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Daryl	Maxwell	dmaxwell@hydro.mb.ca	Manitoba Hydro	360 Portage Ave FL 16 PO Box 815, Station Main Winnipeg, Manitoba R3C 2P4 Canada	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Matthew	McClincy	MMcClincy@usg.com	USG	35 Arch Street Clouquet, MN 55720	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Craig	McDonnell	Craig.McDonnell@state.mn.us	MN Pollution Control Agency	520 Lafayette Road St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Natalie	McIntire	natalie.mcintire@gmail.com	Wind on the Wires	570 Asbury St Ste 201 Saint Paul, MN 55104-1850	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Joseph	Meyer	joseph.meyer@ag.state.mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	OFF_SL_19-442_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 11 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Moeller	dmoeller@allte.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
James	Mortenson	james.mortenson@state.mn.us	Office of Administrative Hearings	PO BOX 64620 St. Paul, MN 55164-0620	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Evan	Mulholland	emulholland@mncenter.org	Minnesota Center for Environmental Advocacy	1919 University Ave W Ste 515 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Michael	Noble	noble@fresh-energy.org	Fresh Energy	408 Saint Peter St Ste 350 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_19-442_Official CC Service List
M. William	O'Brien	bobrien@mojlaw.com	Miller O'Brien Jensen, P.A.	120 S 6th St Ste 2400 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Christopher J.	Oppitz	N/A	-	PO Box 910 Park Rapids, MN 56470-0910	Paper Service	No	OFF_SL_19-442_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 12 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Elanne	Palcich	epalcich@cpinternet.com	Save Our Sky Blue Waters	P.O. Box 3661 Duluth, MN 55803	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Max	Peters	maxp@cohasset-mn.com	City of Cohasset	305 NW First Ave Cohasset, MN 55721	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
William	Phillips	wphillips@aarp.org	AARP	30 E. 7th St Suite 1200 St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Marcia	Podratz	mpodratz@mnpower.com	Minnesota Power	30 W Superior S Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Tolaver	Rapp	Tolaver.Rapp@cliffsnr.com	Cliffs Natural Resources	200 Public Square Suite 3400 Cleveland, OH 441142318	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Ralph	Riberich	rriberich@uss.com	United States Steel Corp	600 Grant St Ste 2028 Pittsburgh, PA 15219	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Buddy	Robinson	buddy@citizensfed.org	Minnesota Citizens Federation NE	2110 W. 1st Street Duluth, MN 55806	Electronic Service	No	OFF_SL_19-442_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 13 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Santi	Romani	N/A	United Taconite	PO Box 180 Eveleth, MN 55734	Paper Service	No	OFF_SL_19-442_Official CC Service List
Susan	Romans	sromans@allete.com	Minnesota Power	30 West Superior Street Legal Dept Duulth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Thomas	Scharff	thomas.scharff@versoco.com	Verso Corp	600 High Street Wisconsin Rapids, WI 54495	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Peter	Scholtz	peter.scholtz@ag.state.mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota Street St. Paul, MN 55101-2131	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Robert H.	Schulte	rhs@schulteassociates.com	Schulte Associates LLC	1742 Patriot Rd Northfield, MN 55057	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Doug	Shoemaker	dougs@charter.net	Minnesota Renewable Energy	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_19-442_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 14 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Brett	Skyles	Brett.Skyles@co.itasca.mn.us	Itasca County	123 NE Fourth Street Grand Rapids, MN 557442600	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Richard	Staffon	rcstaffon@msn.com	W. J. McCabe Chapter, Izaak Walton League of America	1405 Lawrence Road Cloquet, Minnesota 55720	Electronic Service	No	OFF_SL_19-442_Official CC Service List
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Robert	Tammen	bobtammen@frontiernet.net	Wetland Action Group	PO Box 398 Soudan, MN 55782	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Jim	Tieberg	jtieberg@polymetmining.com	PolyMet Mining, Inc.	PO Box 475 County Highway 666 Hoyt Lakes, MN 55750	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Jessica	Tritsch	jessica.tritsch@sierraclub.org	Sierra Club	2327 E Franklin Ave Minneapolis, MN 55406	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Karen	Turnboom	karen.turnboom@versocom.com	Verso Corporation	100 Central Avenue Duluth, MN 55807	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Kodi	Verhalen	kverhalen@taftlaw.com	Taft Stettinius & Hollister LLP	80 S 8th St Ste 2200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 15 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Kevin	Walli	kwalli@fryberger.com	Fryberger, Buchanan, Smith & Frederick	380 St. Peter St Ste 710 St. Paul, MN 55102	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Laurie	Williams	laurie.williams@sierraclub. org	Sierra Club	Environmental Law Program 1536 Wynkoop St Ste 200 Denver, CO 80202	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Cha	Xiong	cha.xiong@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St. Suite 1400 St. Paul, Minnesota 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Scott	Zahorik	scott.zahorik@aeoa.org	Arrowhead Economic Opportunity Agency	702 S. 3rd Avenue Virginia, MN 55792	Electronic Service	No	OFF_SL_19-442_Official CC Service List

Attachment No. 7
Page 16 of 26

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PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 17 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Cartella	David.Cartella@cliffsnr.com	Cliffs Natural Resources Inc.	200 Public Square Ste 3300 Cleveland, OH 44114-2315	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Greg	Chandler	greg.chandler@upm.com	UPM Blandin Paper	115 SW First St Grand Rapids, MN 55744	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Steve W.	Chriss	Stephen.chriss@walmart.com	Wal-Mart	2001 SE 10th St. Bentonville, AR 72716-5530	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_21-335_Official CC Service List
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Brooke	Cooper	bcooper@allte.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Sean	Copeland	seancopeland@fdlrez.com	Fond du Lac Band of Lake Superior Chippewa	1720 Big Lake Rd Cloquet, MN 55720	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Hillary	Creurer	hcreurer@allte.com	Minnesota Power	30 W Superior St Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Lisa	Daniels	lisadaniels@windustry.org	Windustry	201 Ridgewood Ave Minneapolis, MN 55403	Electronic Service	No	OFF_SL_21-335_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 18 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Richard	Dornfeld	Richard.Dornfeld@ag.state.mn.us	Office of the Attorney General-DOC	Minnesota Attorney General's Office 445 Minnesota Street, Suite 1800 Saint Paul, Minnesota 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
J.	Drake Hamilton	hamilton@fresh-energy.org	Fresh Energy	408 St Peter St Ste 350 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Brian	Edstrom	briane@cubminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota St Ste W1360 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Ron	Elwood	relwood@mnsap.org	Mid-Minnesota Legal Aid	2324 University Ave Ste 101 Saint Paul, MN 55114	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_21-335_Official CC Service List
John R.	Gasele	ygasele@fryberger.com	Fryberger Buchanan Smith & Frederick PA	700 Lonsdale Building 302 W Superior St Ste 700 Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Bruce	Gerhardson	bgerhardson@otpc.com	Otter Tail Power Company	PO Box 496 215 S Cascade St Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Barbara	Gervais	toftemn@boreal.org	Town of Tofte	P O Box 2293 7240 Tofte Park Road Tofte, MN 55615	Electronic Service	No	OFF_SL_21-335_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 19 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Jerome	Hall	hallj@stlouiscountymn.gov	Saint Louis County Property Mgmt Dept	Duluth Courthouse 100 N 5th Ave W Rm 515 Duluth, MN 55802-1209	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Kimberly	Hellwig	kimberly.hellwig@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Annete	Henkel	mui@mutilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Shane	Henriksen	shane.henriksen@enbridge.com	Enbridge Energy Company, Inc.	1409 Hammond Ave FL 2 Superior, WI 54880	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Valerie	Herring	vherring@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S. Eighth Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Katherine	Hinderlie	katherine.hinderlie@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St Suite 1400 St. Paul, MN 55101-2134	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Lori	Hoyum	lhoyum@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
James	Jarvi	N/A	Minnesota Ore Operations - U S Steel	P O Box 417 Mountain Iron, MN 55768	Paper Service	No	OFF_SL_21-335_Official CC Service List
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2950 Yellowtail Ave. Marathon, FL 33050	Electronic Service	No	OFF_SL_21-335_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 20 of 26

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 Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Kelsey	Johnson	info@taconite.org	Iron Mining Association	324 West Superior St Ste 502 Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Travis	Kolari	N/A	Keetac	PO Box 217 Keewatin, MN 55753	Paper Service	No	OFF_SL_21-335_Official CC Service List
Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Becky	Lammi	cityclerk@ci.aurora.mn.us	City of Aurora	16 W 2nd Ave N PO Box 160 Aurora, MN 55705	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Carmel	Laney	carmel.laney@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
David	Langmo	david.langmo@sappi.com	Sappi North America	P O Box 511 2201 Avenue B Cloquet, MN 55720	Electronic Service	No	OFF_SL_21-335_Official CC Service List
James D.	Larson	james.larson@avantenergy.com	Avant Energy Services	220 S 6th St Ste 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Emily	Larson	eLarson@duluthmn.gov	City of Duluth	411 W 1st St Rm 403 Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 21 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Annie	Levenson Falk	annielf@cubminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota Street, Suite W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
LeRoger	Lind	llind@yahoo.com	Save Lake Superior Association	P.O. Box 101 Two Harbors, MN 55616	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Eric	Lindberg	elindberg@mncenter.org	Minnesota Center for Environmental Advocacy	1919 University Avenue West Suite 515 Saint Paul, MN 55104-3435	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Patrick	Loupin	PatrickLoupin@Packaging Corp.com	Packaging Corporation of America	PO Box 990050 Boise, ID 83799-0050	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Susan	Ludwig	sludwig@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Kavita	Maini	kmairi@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Sarah	Manchester	sarah.manchester@sappi.com	Sappi North American	255 State Street Floor 4 Boston, MA 02109-2617	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Keith	Matzdorf	keith.matzdorf@sappi.com	Sappi Fine Paper North America	PO Box 511 2201 Avenue B Cloquet, MN 55720	Electronic Service	No	OFF_SL_21-335_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 22 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Daryl	Maxwell	dmaxwell@hydro.mb.ca	Manitoba Hydro	360 Portage Ave FL 16 PO Box 815, Station Main Winnipeg, Manitoba R3C 2P4 Canada	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Matthew	McClincy	MMcClincy@usg.com	USG	35 Arch Street Clouquet, MN 55720	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Craig	McDonnell	Craig.McDonnell@state.mn.us	MN Pollution Control Agency	520 Lafayette Road St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Natalie	McIntire	natalie.mcintire@gmail.com	Wind on the Wires	570 Asbury St Ste 201 Saint Paul, MN 55104-1850	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Joseph	Meyer	joseph.meyer@ag.state.mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	OFF_SL_21-335_Official CC Service List
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
James	Mortenson	james.mortenson@state.mn.us	Office of Administrative Hearings	PO BOX 64620 St. Paul, MN 55164-0620	Electronic Service	Yes	OFF_SL_21-335_Official CC Service List
Evan	Mulholland	emulholland@mncenter.org	Minnesota Center for Environmental Advocacy	1919 University Ave W Ste 515 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 23 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Michael	Noble	noble@fresh-energy.org	Fresh Energy	408 Saint Peter St Ste 350 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Rolf	Nordstrom	rnordstrom@gpsd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Christopher J.	Oppitz	N/A	-	PO Box 910 Park Rapids, MN 56470-0910	Paper Service	No	OFF_SL_21-335_Official CC Service List
Elanne	Palcich	epalcich@cpinternet.com	Save Our Sky Blue Waters	P.O. Box 3661 Duluth, MN 55803	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Max	Peters	maxp@cohasset-mn.com	City of Cohasset	305 NW First Ave Cohasset, MN 55721	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
William	Phillips	wphillips@aarp.org	AARP	30 E. 7th St Suite 1200 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Marcia	Podratz	mpodratz@mnpower.com	Minnesota Power	30 W Superior S Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Tolaver	Rapp	Tolaver.Rapp@cliffsnr.com	Cliffs Natural Resources	200 Public Square Suite 3400 Cleveland, OH 441142318	Electronic Service	No	OFF_SL_21-335_Official CC Service List

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Attachment No. 7
Page 24 of 26

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 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_21-335_Official CC Service List
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Ralph	Riberich	rriberich@uss.com	United States Steel Corp	600 Grant St Ste 2028 Pittsburgh, PA 15219	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Buddy	Robinson	buddy@citizensfed.org	Minnesota Citizens Federation NE	2110 W. 1st Street Duluth, MN 55806	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Santi	Romani	N/A	United Taconite	PO Box 180 Eveleth, MN 55734	Paper Service	No	OFF_SL_21-335_Official CC Service List
Susan	Romans	sromans@allete.com	Minnesota Power	30 West Superior Street Legal Dept Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Thomas	Scharff	thomas.scharff@versoco.com	Verso Corp	600 High Street Wisconsin Rapids, WI 54495	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Peter	Scholtz	peter.scholtz@ag.state.mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota Street St. Paul, MN 55101-2131	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Robert H.	Schulte	rhs@schulteassociates.com	Schulte Associates LLC	1742 Patriot Rd Northfield, MN 55057	Electronic Service	No	OFF_SL_21-335_Official CC Service List

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TRADE SECRET DATA EXCISED

Attachment No. 7
Page 25 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_21-335_Official CC Service List
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	Yes	OFF_SL_21-335_Official CC Service List
Doug	Shoemaker	dougs@charter.net	Minnesota Renewable Energy	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Brett	Skyles	Brett.Skyles@co.itasca.mn.us	Itasca County	123 NE Fourth Street Grand Rapids, MN 557442600	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Richard	Staffon	rcstaffon@msn.com	W. J. McCabe Chapter, Izaak Walton League of America	1405 Lawrence Road Cloquet, Minnesota 55720	Electronic Service	No	OFF_SL_21-335_Official CC Service List
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Robert	Tammen	bobtammen@frontiernet.net	Wetland Action Group	PO Box 398 Soudan, MN 55782	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Jim	Tieberg	jtieberg@polymetmining.com	PolyMet Mining, Inc.	PO Box 475 County Highway 666 Hoyt Lakes, MN 55750	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Jessica	Tritsch	jessica.tritsch@sierraclub.org	Sierra Club	2327 E Franklin Ave Minneapolis, MN 55406	Electronic Service	No	OFF_SL_21-335_Official CC Service List

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Attachment No. 7
Page 26 of 26

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Karen	Turnboom	karen.turnboom@versoco.com	Verso Corporation	100 Central Avenue Duluth, MN 55807	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Kodi	Verhalen	kverhalen@taftlaw.com	Taft Stettinius & Hollister LLP	80 S 8th St Ste 2200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Kevin	Walli	kwalli@fryberger.com	Fryberger, Buchanan, Smith & Frederick	380 St. Peter St Ste 710 St. Paul, MN 55102	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Laurie	Williams	laurie.williams@sierraclub.org	Sierra Club	Environmental Law Program 1536 Wynkoop St Ste 200 Denver, CO 80202	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Cha	Xiong	cha.xiong@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St. Suite 1400 St. Paul, Minnesota 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Scott	Zahorik	scott.zahorik@aeoa.org	Arrowhead Economic Opportunity Agency	702 S. 3rd Avenue Virginia, MN 55792	Electronic Service	No	OFF_SL_21-335_Official CC Service List

STATE OF MINNESOTA)
) ss
COUNTY OF ST. LOUIS)

AFFIDAVIT OF SERVICE VIA
ELECTRONIC FILING

Tiana Heger of the City of Duluth, County of St. Louis, State of Minnesota, says that on the 2nd day of May 2022, she served Minnesota Power's Initial Filing of its 2023 Annual Forecasted Fuel and Purchased Energy in **Docket No. E015/AA-22-TBD** on the Minnesota Public Utilities Commission and the Energy Resources Division of the Minnesota Department of Commerce via electronic filing. The persons on E-Docket's Official Service List for this Docket were served as requested.



Tiana Heger