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March 1, 2023

-VIA ELECTRONIC FILING-

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

RE: ANNUAL TRUE-UP COMPLIANCE REPORT 2022 ANNUAL FUEL FORECAST AND MONTHLY FUEL COST CHARGES DOCKET NO. E002/AA-21-295

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Annual True-Up and Compliance Report for the fuel forecast and monthly fuel cost charges approved for the 2022 calendar year. This Report also includes compliance items required to be included in the Company's Electric Annual Automatic Adjustment of Charges Reports.

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

Pursuant to Minn. Stat. § 216.17, subd. 3, we have electronically filed this document, and served copies of the summary on the parties on the attached service lists.

If you have any questions regarding this filing, please contact Rebecca Eilers at 612-330-5570 or rebecca.d.eilers@xcelenergy.com or me at 612-330-7681 or lisa.r.peterson@xcelenergy.com.

Sincerely,

/s/

LISA R. PETERSON
DIRECTOR, REGULATORY PRICING AND ANALYSIS

Enclosures cc: Service Lists

STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

| Katie J. Sieben | Chair |
|--------------------|--------------|
| Valerie Means | Commissioner |
| Matthew Schuerger | Commissioner |
| Joseph K. Sullivan | Commissioner |
| John A. Tuma | Commissioner |

IN THE MATTER OF THE PETITION OF NORTHERN STATES POWER COMPANY FOR APPROVAL OF THE 2022 ANNUAL FUEL FORECAST AND MONTHLY FUEL COST CHARGES DOCKET NO. E002/AA-21-295

ANNUAL TRUE-UP REPORT

OVERVIEW

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Annual Fuel Forecast True-Up Report which provides a comparison of the approved 2022 fuel forecast to 2022 actuals. This report is submitted in compliance with the various Orders issued in Docket No. E999/CI-03-802 which implemented Fuel Clause Reform and provides various other compliance items required to be filed in the Company's Electric Annual Automatic Adjustment of Charges Report (AAA).¹

The Company's 2022 actual fuel expense was \$950.2 million, or \$100.8 million higher than our approved forecast of \$849.4 million. The actual average fuel cost of \$33.55 per MWh was 6.6 percent higher than the authorized rate of \$31.47 per MWh. However, actual fuel cost collections were \$891.0 million due to higher than forecast Minnesota jurisdictional sales. Furthermore, Minnesota fuel collections were adjusted through a mid-year rate surcharge, resulting in an additional \$62.9 million of collections from July through December. Therefore total Minnesota fuel collections were \$954.0 million versus total actual fuel expense of \$950.2 million, resulting in over-collected fuel costs of \$3.8 million.

The significant drivers for increased costs between our 2022 forecast and actuals were:

- 1. higher congestion cost from the MISO market than forecast;
- 2. increased fuel cost for gas generation due to higher gas prices;

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¹ Orders dated December 17, 2017, December 12, 2018, and June 12, 2019.

- 3. increased fuel cost for coal generation in response to higher gas prices and resulting market LMPs; and
- 4. increased costs for PPA wind generation

Higher market LMPs also led to greater than forecast asset-based sales volumes and revenues, which also increased volume of generation from both gas and coal generators. In addition, actual FTR revenues were greater than forecast. Asset-based sales and FTR revenues served to offset some of the increased costs for 2022. We review these drivers and mitigating factors in detail in section II-D.

In this report, we provide details of the variance between forecast and actuals, discuss the prudency of our management of fuel costs in 2022, propose to implement true-up factors by class in September 2023 to return \$3.8 million of over-collected costs to customers in one month, and provide various additional compliance reports.

2022 ANNUAL TRUE-UP REPORT

I. DESCRIPTION AND PURPOSE OF FILING

A. Background

On December 19, 2017, the Commission issued its Order Approving New Annual Fuel Clause Adjustment Requirements and Setting Filing Requirements in Docket No. E999/CI-03-802 (December 19 Order) which requires a utility's fuel rates to be set in a rate case or an annual fuel clause adjustment filing unless a utility can show a significant unforeseen impact. The Order specifies that these filings should include complete documentation supporting the proposed fuel rates, including information on Power Purchase Agreements (PPAs), estimates of costs for each type of fuel, and the proportion of each type of fuel, along with a complete description of any model used to develop the proposed \$/MWh fuel rates, including but not limited to the identification and justification of the inputs and formulas used for all fuel types, and fully documented sales forecasts.

The December 19 Order also requires utilities to report annually the actual \$/MWh fuel costs in each month by fuel type (including identification of costs from specific power purchase agreements) and compare the annual revenue based on the fuel rates set by the Commission with annual revenues based on actual costs for the year. Each utility will refund any over-collections and show prudence of costs before allowing recovery of under-collections. If annual revenues collected (\$/MWh) are higher than total actual costs, the utility must refund the over-collection through a true-up mechanism. If annual revenues collected are lower than total actual costs, the

utility must show why it is reasonable to charge the higher costs (under-collections) to ratepayers through a true-up mechanism. In this true-up report, the Company reports that the 2020 annual revenues collected were lower than total actual costs, and therefore we show why it is reasonable to charge the higher costs.

The Commission's December 12, 2018 Order in the same docket (December 12 Order) established January 1, 2020 as the implementation date for Fuel Clause Reform and also ordered that the forecast year be a calendar year. Each utility is required to file its Annual Fuel Forecast Petition in a separate docket.

The Commission's June 12, 2019 Order (June 12 Order) in the same docket set forth a procedural schedule for the various filings, reviews, approvals, and implementation of the various components Annual Fuel Forecast process and approved the disposition of reporting items that are required to be included in Electric AAA Reports per Minn. Rules and past Commission Orders.²

The Commission's December 2, 2021 Order in Docket No. E002/AA-21-295 approved the Company's fuel forecast and resulting monthly rate factors by customer class for calendar year 2022. The Commission's July 5, 2022 Order in Docket No. E002/AA-20-417 approved 2021 true-up factors by customer class, which adjusted the approved rates for the months of September through December 2022. In addition, no party objected to the Company's May 19, 2022 adjustment proposal filed in Docket No. E002/AA-21-295, therefore we implemented a \$61.0 million increase to fuel costs which increased the rate factors by customer class for the months of July through December 2022.

B. Procedural Schedule

Under the procedural schedule detailed in Appendix A of the June 12 Order, Comments on the true-up reports are due on April 15, Reply Comments are due on May 2, and Response Comments are due on May 15. A Commission Order is expected by August 2 to allow utilities to provide customers notice of true-up rate factors 30 days before implementation on September 1.

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² See Part F, Attachment 5 of this Report for a compliance matrix detailing the various compliance items included in this report.

II. 2022 FORECAST VERSUS ACTUALS COMPARISON

A. Summary

The Company's 2022 actual fuel expense was \$950.2 million, or \$100.8 million higher than our approved forecast of \$849.4 million. The actual average fuel cost of \$33.55 per MWh was 6.6 percent higher than the authorized rate of \$31.47 per MWh. However, actual fuel cost collections were \$891.0 million due to 4.9 percent higher than forecast Minnesota jurisdictional sales. Furthermore, Minnesota fuel collections were adjusted through a mid-year rate surcharge, resulting in an additional \$62.9 million of collections from July through December. Therefore total Minnesota fuel collections were \$954.0 million versus total actual fuel expense of \$950.2 million, resulting in over-collected fuel costs of \$3.8 million.

Table 1 below summarizes the 2022 forecast to actuals comparison.

Table 1: 2022 Fuel Cost and Revenue Comparison Summary
MN Jurisdiction

| WIT Julistiction | | | | | | | | | | | | |
|---------------------------------|------------------|-----------------|--------------------|--------------|--|--|--|--|--|--|--|--|
| | Actual (000s) | Forecast (000s) | Variance (000s) | Variance (%) | | | | | | | | |
| Total FCA Costs | \$950,221 | \$849,447 | \$100,774 | 11.9% | | | | | | | | |
| MWh Sales | 28,318,349 | 26,988,335 | 1,330,013 | 4.9% | | | | | | | | |
| FCA Cost in \$/MWh | \$33.55 | \$31.47 | \$2.08 | 6.6% | | | | | | | | |
| | | | | | | | | | | | | |
| Fuel Collections | \$891,041 | \$849,447 | \$41,594 | 4.9% | | | | | | | | |
| Mid-Year Adjustment Collections | \$62,934 | | | | | | | | | | | |
| (Over) Under Recovery | (\$3,753) | | | | | | | | | | | |

We provide more detailed analysis of variances between the forecast and actuals for the primary components of fuel costs later in this report.

B. Management of 2022 Fuel Costs and Prudency of True-Up Proposal

2022 was another challenging year for fuel recovery under the new fuel recovery mechanism. Beginning with rising natural gas prices in September 2021, just following our July 2021 Reply Comments filing, and continuing throughout the year, pressures arose that led to significantly higher costs than forecast. Natural gas prices stayed higher than forecast throughout most of the year, leading to higher fuel costs than forecast for the year. As a result of high gas prices, coal generation ran more than forecast, and resulted in higher than forecast costs for coal generation. Given

high natural gas prices, increased coal generation served as an offset, resulting in lower overall costs for customers than alternative forms of generation.

Another pressure that drove costs much higher than forecast was substantially higher costs from congestion. Recall that Locational Marginal Prices consist of three components: system energy cost (which varies for each market interval but is constant across the MISO footprint for that interval), congestion costs, and losses. Put simply, congestion costs are a signal that transmission capacity in the market is constrained. Congestion costs saw step increases in April 2021 and again in September 2021, and remained high throughout 2022. In-servicing of new projects, such as the Huntley-Wilmarth transmission line in December 2021, provided some relief to further step increases in congestion costs; however, costs still ended the year much higher than forecast in our July 2021 Reply Comments, the forecast approved in this docket. Congestion was high in MISO due to substantial additions of renewable energy, concentrated in certain wind-rich regions of MISO. Additions of generation have outpaced transmission capacity, limiting the ability to transport lowercost wind generation to load zones in MISO, instead leaving higher priced resources to set marginal market prices. On-going transmission work in MISO to bring new lines, such as Huntley-Wilmarth, into service and actions such as reconfigurations and dynamic line ratings may help mitigate some of the congestion in the near term. However, additional investment in transmission will likely be necessary to address congestion over the longer term.

Throughout all these events, we were able to manage our generation fleet successfully and reliably, with outstanding nuclear plant performance evidenced by low nuclear forced outage rates. This led to substantial revenues from asset-based sales to MISO that contributed a significant offset to higher fuel and congestion costs. In addition, greater than forecast revenues from FTRs provided a partial offset to high congestion costs realized in 2022. The rise in natural gas prices, in addition to rising congestion in MISO, were events the Company could not have forecast in July 2021 when our Reply Comments established rates for 2022 fuel recovery.

Although the Company's year-end results reveal over-collection of \$3.8 million, this reflects \$62.9 million in additional fuel surcharges implemented as a mid-year adjustment to fuel rates beginning in July 2022. At that time, the Company projected that year-end under-recovery could exceed \$100 million. Subsequently, gas prices and congestion costs moderated slightly and did not continue to increase to higher levels. In addition, FTR and asset- based sales revenues provided a greater offset to higher costs than we anticipated.

Because 2022 under-recovery was recovered through the surcharge we implemented in July, leading to a slight over-recovery by year-end, and because the Company managed our diverse generation fleet through very challenging circumstances to provide high availability that led to significant offsets to higher costs, we believe our proposal to refund the over-collected 2022 fuel costs is reasonable, and we request the Commission approve a true-up for that amount.

C. **Proposed True-Up Rate Factors**

We propose to refund \$3.8 million in the September 2023 Fuel Cost Charge (FCC). The proposed monthly true-up factors by customer class are shown in Part A, Attachment 3 and Part A, Attachment 5.

To determine the proposed true-up factors by customer class, we compare the 2022 forecasted Minnesota cost to the actual cost, which includes the mid-year rate adjustment. This monthly amount, further divided by the Minnesota jurisdiction MWh sales subject to the Fuel Clause Adjustment, yields the true-up per unit cost for each month. This per unit cost multiplied by the Fuel Adjustment Factor (FAF) ratio determines the proposed class true up factors. The proposed class refund will be added to the September 2023 FCC. We provide the proposed tariff sheet reflecting the proposed true-up rates as Part A, Attachment 9. We propose to update the Company web site with the true-up factors by August 1, 2023, or upon issuance of the Commission's Order, to provide customers 30 days' notice of the rate change. Monthly fuel rates are presented at the following link:

https://www.xcelenergy.com/company/rates and regulations/rates/rate riders.

Pursuant to the Commission Order dated July 5, 2022 in Docket No. E002/AA-20-417, the Commission authorized the Company to recover the 2021 under-collection of \$81.8 million over twelve months beginning with the September 2022 FCC. As shown in Part A, Attachment 5, the Company has recovered \$28.9 million during the last 4 months in 2022. The over- or under-recovery of the \$81.8 million true-up will be determined when the final monthly recovery is completed in August 2023. The Company will submit a filing in late September in Docket No. E002/AA-20-417 to address the final true-up amount for 2021. If no objections are received from other parties within 30 days, the Company will implement the final true-up by adjusting the November 2023 FCC factor accordingly.

D. **Detailed Variance Explanations**

Part A, Attachment 1 of this report summarizes the year-end results by providing a comparison of forecast to actuals by fuel cost component, including the variance

amount. Below we describe variances between the forecast and actuals for the primary components of fuel costs.

i. Company-Owned Hydro Generation

The Company-owned hydro generation forecast was based on a 30-year annual historical average of hydro generation for NSP System plants. There is no cost for hydro generation in the model because it's a fuel free resource.

Figure 1: Hydro Forecast to Actuals

| | | 2022 (\$000 |) | 2022 GWh | | | 2022 \$/MWh | | |
|-------|--------|-------------|----------|----------|----------|----------|-------------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Hydro | 0 | 0 | 0 | 848 | 933 | (85) | \$0.00 | \$0.00 | \$0.00 |

Company-owned hydro facilities experienced lower than normal water flows in 2022, which resulted in less hydro generation than forecast. Less hydro generation than forecast increased generation from other fuel types.

ii. Company-Owned Wind Generation

To forecast wind generation the forecast model incorporates individual hourly profiles of each NSP-owned project based on historical data for projects with at least twelve months of operational data. For new projects that did not yet have annual data, the profiles were based on turbine technology, plant design, and localized weather data.

Figure 2: Company-Owned Wind Forecast to Actuals

| | | 2022 (\$000 |) | | 2022 GWh | | 2022 \$/MWh | | |
|-------|--------------------------|-------------|---|--------------------------|----------|-------|-------------|----------|----------|
| | Actual Forecast Variance | | | Actual Forecast Variance | | | Actual | Forecast | Variance |
| Owned | | | | | | | | | |
| Wind | 0 | 0 | 0 | 9,361 | 8,328 | 1,033 | \$0.00 | \$0.00 | \$0.00 |

Actual 2022 Company-owned wind generation was greater than forecast primarily due to improved wind resources relative to forecast. There is no cost for wind generation in the model because it is a fuel free resource. Higher wind generation than forecast reduced generation from other fuel types and contributes to lower costs.

iii. Company-Owned Coal Generation

Coal prices are forecast based on coal purchases under contract and rail contracts in effect at the time of filing. Any coal requirements that are not under contract are forecast based on spot market prices. The coal forecast includes key modeling

parameters, such as operating capacity and heat rate, based on capabilities of the individual plants. Planned maintenance for each unit, as well as forced outage rates based on historical data and expected plant conditions going forward, are included in the forecasted coal rates. We discuss detailed outage data in more detail later in this report.

Figure 3: Company-Owned Coal Forecast to Actuals

| | 2022 (\$000) | | | 2022 GWh | | | 2022 \$/MWh | | |
|------|--------------|-----------|-----------|----------|----------|----------|-------------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Coal | \$242,848 | \$138,083 | \$104,766 | 9,524 | 5,867 | 3,657 | \$25.50 | \$23.54 | \$1.96 |

Actual coal generation in 2022 was greater than forecast. This was due to higher gas prices that led to stronger LMP and greater market sales making coal more economical for generation. Also, the 2022 forecast assumed seasonal operations of two coal units, that could not occur following a ruling by MISO's Independent Market Monitor (IMM), which further contributed to greater generation from coal than forecast. The increase in coal generation is the primary driver to higher coal costs than forecast. A secondary driver is higher cost for coal fuel delivered to the plants. Some of the increase was driven by coal purchases made after our July 30, 2021 Reply Comments that were priced higher than assumed. Coal prices were higher in response to natural gas prices that had already begun to rise by the Fall of 2021.

iv. Company-Owned Wood/RDF Generation

The wood/refuse-derived fuel (RDF) forecast includes key modeling parameters, such as operating capacity and heat rate, based on capabilities of the individual plants. Planned maintenance for each unit, as well as forced outage rates based on historical data and expected plant conditions going forward, are included in the forecasted wood/RDF rates. We discuss detailed outage data in more detail later in this report.

Figure 4: Company-Owned Wood/RDF Forecast to Actuals

| | 2022 (\$000) | | | | 2022 GWh | | 2022 \$/MWh | | |
|--------------|--------------|----------|----------|--------|----------|----------|-------------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Wood/ RDF | 9,781 | 9,392 | 389 | 513 | 442 | 71 | \$19.05 | \$21.23 | -\$2.18 |

Actual 2022 Company-owned wood/RDF cost was slightly higher than forecast due to increased generation, but the \$/MWh declined due to lower fuel costs.

v. Company-Owned Natural Gas Generation

The Company-owned natural gas forecast includes key modeling parameters, such as operating capacity and heat rate, based on capabilities of the individual plants. Planned maintenance for each unit, as well as forced outage rates based on historical data and expected plant conditions going forward, are included in the natural gas forecast. We discuss outage data in more detail later in this report.

Natural gas fuel prices are forecast based on New York Mercantile Exchange (NYMEX) futures prices for natural gas at the Ventura hub at the time of our July 30, 2021 Reply Comments filing. Costs for transport of natural gas to each specific plant are based on the Company's transport and delivery contracts in place at the time we made our filing.

Figure 5: Company-Owned Natural Gas Forecast to Actuals

| | | 2022 (\$000) | | | 2022 GW1 | ı | 2022 \$/MWh | | |
|-------|--------------------------|--------------|---------|--------|-----------------|----------|-------------|----------|----------|
| | Actual Forecast Variance | | | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Owned | | | | | | | | | |
| Gas | 263,681 | 161,071 | 102,610 | 4,381 | 4,695 | (313) | \$60.19 | \$34.31 | \$25.88 |

The Company used natural gas futures prices in July 2021 for our Reply Comments filing. Subsequent to that filing, natural gas prices began to rise significantly in the Fall of 2021 and remained elevated throughout 2022. Higher natural gas prices resulted in greater costs for natural gas generation despite lower generation than forecast.

vi. Company-Owned Nuclear Generation

The Company-owned nuclear forecast includes key modeling parameters, such as monthly operating capacity, based on the capability of each individual unit. Planned maintenance for each unit, as well as forced outage rates based on historical data and expected conditions going forward, are included in the forecasted nuclear rates. Forecasted nuclear fuel price is based on the Company's existing nuclear fuel contracts at the time the forecast was filed.

Figure 6: Company-Owned Nuclear Forecast to Actuals

| | | 2022 (\$000) | | 2022 GWh | | | 2022 \$/MWh | | |
|---------|---------|--------------|----------|----------|----------|----------|-------------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Nuclear | 117,174 | 115,474 | 1,700 | 14,696 | 14,599 | 97 | \$7.97 | \$7.91 | \$0.06 |

Actual Company-owned nuclear generation experienced better-than-forecast performance in 2022 due to continued strong performance from our nuclear fleet. The investments we have made in our nuclear plants over the past several years have provided benefit. Since January 2019 (through December 2022), Monticello has operated at an average capacity factor of more than 93 percent, including 98.6 percent in 2020 and 98.0 percent in 2022, both non-refueling years. In that same timeframe, Prairie Island achieved a combined average capacity factor of 96 percent, including a 99.8 percent on Unit 1 in 2021 and 99.9 percent on Unit 2 in 2022, both non-refueling years. Part C, Attachments 4 and 5 provide details on actual outages in 2021, including a comparison of forecast to actual outage costs by unit.

vii. Purchased Natural Gas Generation

The purchased natural gas forecast includes key modeling parameters, such as operating capacity and heat rate, based on capabilities of the individual plants or according to terms specified in the individual Power Purchase Agreements (PPAs). Planned maintenance for each unit based on the overhaul schedule provided by the PPA counterparty, as well as forced outage rates based on historical data and expected plant conditions going forward, are included in the PPA natural gas forecast.

Figure 7: Purchased Natural Gas Forecast to Actuals

| | | 2022 (\$000) | | 2022 GWh | | | 2022 \$/MWh | | |
|----------|---------|--------------|----------|----------|----------|----------|-------------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Gas PPAs | 155,596 | 94,913 | 60,673 | 2,495 | 3,212 | (717) | \$62.36 | \$29.55 | \$32.81 |

The Company used natural gas futures prices in July of 2021 for our July 30, 2021 Reply Comments filing. Subsequent to that filing, natural gas prices began to rise significantly in the Fall of 2021 and remained elevated throughout 2022. Higher natural gas prices resulted in greater costs for natural gas generation despite lower generation than forecast.

viii. Purchased Solar Generation (PPAs)

Each solar PPA is modeled in the forecast with hourly profiles for each project. These profiles are based on historical results from projects with operational data, and prices are based on the terms of each contract.

Figure 8: Solar PPAs Forecast to Actuals

| | | 2022 (\$000 |) | 2022 GWh | | | 2022 \$/MWh | | |
|------------|--------|-------------|----------|----------|----------|----------|-------------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Solar PPAs | 48,621 | 47,827 | 795 | 788 | 767 | 21 | \$61.71 | \$62.38 | -\$0.67 |

Actual 2022 PPA solar costs were slightly higher than forecast due greater generation than forecast.

ix. Purchased Solar Generation (Community Solar Gardens)

The community solar gardens (CSG) program forecast includes expectations of future growth based on current applications for gardens seeking to participate in the program. We identified current projects to anticipate in-service dates and estimate project completion (in capacity) by month and year. We also forecast additional applications based on a three-year historical average (removing outliers) to help account for our future pipeline of projects. The program is modeled as one entity rather than individually by garden. The assumed price for the program is based on historical price data, incorporating the Applicable Retail Rate (ARR) and Value of Solar (VOS) vintage rates for projects forecasted to be in-service in 2021.

The market cost of energy from the solar gardens generation is determined based on the assumed Locational Marginal Price (LMP) in the simulation. This cost is shared with all jurisdictions in the NSP system. The cost of the program above market is direct assigned to Minnesota customers.

Figure 9: Community Solar Gardens Forecast to Actuals

| | | 2022 (\$000) |) | | 2022 GWh | | | 2022 \$/MWh | | |
|---------------------|---------|--------------|----------|--------|----------|----------|----------|-------------|----------|--|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance | |
| CSG | 99,994 | 38,884 | 61,110 | | | | | | | |
| Market | 77,774 | 30,004 | 01,110 | | | | | | | |
| CSG Above Market | 84,036 | 161,853 | (77,816) | | | | | | | |
| Total CSG | 184,030 | 200,737 | (16,707) | 1,404 | 1,577 | (173) | \$131.12 | \$127.29 | \$3.83 | |

Costs for community solar gardens (CSGs) were lower than forecast due primarily to lower generation from CSGs than assumed in our July 30, 2022 Reply Comments. Partially offsetting the cost decrease due to lower generation was higher CSG rates driven by a higher ARR than we had assumed in our Reply. The higher ARR was driven by higher actual fuel costs, the interim rate increase in 2022, and the Company's riders, including the Renewable Energy Standard (RES) Rider.

See Part C, Attachments 8-10 for more details about actual CSG above-market costs and total number of gardens and subscriptions.

x. Purchased Wind Generation

The wind PPA forecast reflects the hourly profiles for each individual project. For existing PPAs, profiles are based on historical data. For new PPAs, the profiles are based on turbine technology, plant design, and localized weather data. The price for each wind PPA is based on the terms of each contract. Projects for which the Company can allow MISO to curtail output are modeled as curtailable projects, using a 5-year historical average for curtailment costs. Those for which curtailment is not allowed are modeled as non-curtailable projects.

Figure 10: Wind PPAs Forecast to Actuals

| | 2022 (\$000) | | | | 2022 GWh | | 2022 \$/MWh | | |
|-----------|--------------|----------|----------|--------|----------|----------|-------------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Wind PPAs | 244,613 | 215,351 | 29,261 | 6,470 | 6,688 | (218) | \$37.81 | \$32.20 | \$5.61 |

Actual purchased wind generation was less than forecast due to higher wind curtailment than assumed in the forecast. Some of the increase in curtailment was offset by improved wind resources relative to forecast. Wind PPA costs were higher than forecast because of greater curtailment costs than assumed in our Reply forecast, in addition to greater available PPA wind generation due to improved wind resource. See Part C, Attachments 1 and 2 for more details regarding wind curtailment.

xi. Purchased Generation – Other

PPAs that do not fit within one of the prior three categories (primarily small hydro PPAs, the remaining biomass PPA, and the PPA with Manitoba Hydro) are modeled based on historical generation (for the small hydro PPAs) or according to their contract terms (for the biomass and Manitoba Hydro PPAs). Price is determined based on contract terms or based on historical prices with assumed escalation.

Figure 11: Other PPAs Forecast to Actuals

| | 2022 (\$000) | | 2022 GWh | | | 2022 \$/MWh | | | |
|------------|--------------|----------|----------|--------|----------|-------------|---------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Other PPAs | 190,655 | 192,847 | (2,182) | 2,220 | 2,351 | (131) | \$85.90 | \$82.03 | \$3.87 |

Actual 2022 costs for other purchased generation were slightly lower than forecast due to lower generation volumes from this mix of other PPA contracts.

xii. Market Purchases and Sales

For forecasting purposes, the PLEXOS simulation can purchase energy from a simulated MISO market if that source of supply results in lower cost than utilization of one of the NSP system dispatchable resources. In addition, the model forecasts asset-based sales opportunities into the MISO market after system native requirements are fulfilled. This is done through an hourly dispatch simulation based on projected hourly market prices that represent LMP for the NSP system. The sum of these quantities plus the MISO charges represent the equivalent MISO Day 2 and Day 3 costs for the Forecast.

Figure 12: Net MISO Costs and Revenues

| | 2022 (\$000) | | | 2022 GWh | | |
|----------|--------------|------------|-------------|----------|----------|----------|
| | Actual | Forecast | Variance | Actual | Forecast | Variance |
| Net MISO | (\$178,121) | (\$40,700) | (\$137,421) | (10,951) | (6,674) | (4,277) |

Due to congestion, net MISO revenue was lower, despite higher than forecast asset-based sales into MISO. Higher than forecast LMPs led to greater volume and revenue from asset-based sales, but these sales were made from higher cost generation due to higher fuel prices and limited ability to transport energy from the Company's renewable resources. In addition, higher market LMPs resulted in greater costs for market purchases from MISO than forecast.

Table 2 below compares the 2022 forecast to actuals by primary MISO charge type.

Table 2: MISO Charge Type Forecast to Actuals (\$000s)

| Category | Actual | Forecast | Variance |
|---------------------------------|-------------|------------|------------|
| Congestion | \$287,010 | \$118,750 | \$168,260 |
| FTR | (\$130,758) | (\$36,032) | (\$94,727) |
| Incremental Transmission losses | \$30,863 | (\$6,612) | \$37,475 |
| RSG/RNU | \$7,599 | \$6,966 | \$633 |
| ASM | (\$5,541) | (\$1,852) | (\$3,690) |
| MISO Charges TOTAL | \$189,172 | \$81,221 | \$107,951 |

We provide additional MISO charge details in Part B, Attachments 1-14. In addition, we discuss system congestion in Part B, Attachment 1 and within our wind curtailment report provided as Part C, Attachment 1.

Table 3 compares the 2022 forecast to actual Asset-Based Margins.

Table 3: Actual 2022 Asset-Based Margins(\$ millions)

| | Revenue | Cost | Margin |
|----------|---------|-------|--------|
| Forecast | 135.8 | 87.3 | 48.5 |
| Actuals | 564.4 | 376.1 | 188.3 |
| Variance | 428.6 | 288.8 | 139.8 |

Asset-Based margins were higher than forecast consistent with the increase in revenues from asset-based sales into MISO as previously discussed. Higher LMP was the primary driver to higher volumes of asset-based sales as the Company's low cost resource portfolio was heavily relied on by MISO throughout the year. Higher fuel costs for natural gas and coal throughout the year led to a lower increase in margins than the increase in revenues as shown in Table 3.

xiii. Retail Sales

The Minnesota sales forecast used in the 2022 Fuel Forecast was developed in July 2021. Actual Minnesota retail sales in 2022 were 28,994,858 MWh, compared with the 2022 sales forecast of 28,201,969 MWh, resulting in a sales-to-forecast variance of 792,889 MWh.³ As summarized in Table 4 below, contributing factors to the forecast variance include: lower than expected savings from demand side management (DSM) programs,⁴ slightly higher than anticipated load additions from commercial and industrial customers (C&I), increased sales due to weather, lower than forecast Combined Heat and Power (CHP) generation, greater than anticipated distributed solar generation, and other non-specified factors. In summary, DSM and weather impacts were the largest contributors to the forecast variance.

³ Sales for Renewable*Connect and WindSource programs are excluded from these figures in the fuel clause mechanism.

⁴ This forecast included a sizable "over achievement" adjustment based on a 3-year historical average of achieved savings, which resulted in a fairly aggressive DSM outlook.

Table 4: Sales-to-Forecast Variance in 2022 (MWh)

| | 2022 |
|-------------------------------------|------------------------|
| | Minnesota Jurisdiction |
| Jul 2022 Cal Mth Sales Forecast | 28,201,969 |
| Actual 2022 Cal Mth Sales | 28,994,858 |
| Actual Sales Variance from Forecast | 792,889 |
| Contribution to Forecast Variance: | |
| DSM Forecast Variance | 661,166 |
| | [PROTECTED DATA BEGINS |
| C&I Load additions/reductions | |
| | PROTECTED DATA ENDS] |
| 2022 Weather Impact | 305,862 |
| | [PROTECTED DATA BEGINS |
| CHP Forecast Variance | |
| | PROTECTED DATA ENDS] |
| Solar Forecast Variance | (97,962) |
| Other Factors | (152,944) |
| Total | 792,889 |

E. Other Items Impacting Total Fuel Cost

i. Costs Excluded from Fuel Costs

Part A, Attachment 3 provides monthly details of the direct assigned WindSource and Renewable*Connect amounts for 2022, which are excluded from total fuel costs.

ii. Solar Energy Standard Exclusion

The Commission's January 16, 2018 Order in Docket No. E002/M-17-425 approved the Company's plan for crediting Solar Energy Standard (SES)-related costs back to SES-exempt customers and to annually recover this amount from the Company's customers through the riders through which solar costs are charged.⁵ The 2021 annual FCA recovery of \$831,268 is shown in Part A, Attachment 2, line 46, the month the excluded customers were issued their bill credit.⁶ The amount is also included in the "Other Adjustments" line on Part A, Attachment 1. This charge was not included in the original forecast given the small amount and in order to include only the exact amount after it is known.

⁶ The Company provided this amount in the June 1, 2022 SES Exclusion Annual Report filed in Docket No. E002/M-17-425.

⁵ The Fuel Clause Adjustment (FCA) and Renewable Development Fund (RDF) Riders.

iii. Saver's Switch Discount Recovery

The Saver's Switch discount is applied during the months of June through September, and therefore our 2022 true-up shows these amounts for those months in our detailed monthly actuals report shown in Part A, Attachment 2, line 47. The amount is also included in the "Other Adjustments" line on Part A, Attachment 1. This charge was not included in the original forecast given the small amount and in order to include only the exact amounts after they are known.

IV. REPORTING IN COMPLIANCE WITH MINNESOTA RULES

This filing contains information provided in response to the annual reporting requirements specified in the following rule sections:

7825.2800 Policies and Actions 7825.2810 Annual Report of Automatic Adjustment Charges 7825.2820 Annual Auditor's Report 7825.2830 Annual Five-Year Projection 7825.2840 Annual Notice of Reports Availability

A. 7825.2800 Annual Reports: Policies and Actions

Part D, Attachments 1-10 include information and supporting data in compliance with the following topics listed in Minn. Rule 7825.2800:

- Procurement Policies
- Dispatching Policies and Procedures
- Fuel Supply
- Conservation Policy
- Other Actions

The Commission's June 12, 2019 Order approved a rule variance requiring this information to be submitted by March 1 each year with the Annual True-Up filing.

B. 7825.2810 Annual Report: Automatic Adjustment of Charges

Minn. Rule 7825.2810 requires the following information:

Base Cost of Fuel

- Billing Adjustment Amounts Charged Customers for Each Month
- Total Cost of Fuel Delivered to Customers
- Revenue Collected from Customers for Energy Delivered
- Monthly Fuel Cost Charge

The Commission's June 12, 2019 Order approved a rule variance requiring this information to be submitted by March 1 each year with the Annual True-Up filing.

1. Base Cost of Fuel

The Commission's November 5, 2019 Order in Docket No. E999/CI-03-802 approved the Company's proposed changes to the base cost of energy. The Company will no longer recover energy-related costs via a base costs of energy. For electric rate case filings, a representative level of test year fuel expense and revenues will be set using the most recent fuel expense forecast filed in the Annual Fuel Forecast docket. Our tariff sheets have been updated to reflect these changes.

As required by the Order, the Company has included in our 2022 test year rate case application a demonstration that the proposed base rates exclude Fuel Clause-Adjustment-related costs.⁷

2. Monthly Fuel Cost Charges

See Part A, Attachment 8 for the monthly fuel cost charges implemented in 2022.

C. 7825.2820 Annual Auditor's Report

The Annual Auditor's Report is provided as Part E, Attachment 2.

The Commission's March 20, 2002 Order in Docket Nos. E002/M-01-1953 and E,G999/AA-02-950 approved the Company's proposed method to separate, for accounting purposes, the costs and effects of financial instruments purchased to meet the needs of retail electric or natural gas ratepayers from the financial instruments purchased to mitigate price risk in the Company's non-jurisdictional wholesale electric sales activity. The Commission's Order also required the Company to submit a written request that its external auditors specifically examine these transactions in preparation of the auditor's report, to be submitted with the Company's 2001-2002 electric and natural gas AAA reports submitted September 1, 2002. The Company continues to annually provide such a written request to its external auditors. Part E,

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⁷ Docket No. E002/GR-21-630

Attachment 1 is a copy of the letter that was sent to facilitate the independent audit by Deloitte & Touche LLP.

Additional audit reporting requirements included in the Commission's July 21, 2017 Order in the 2015 AAA Report proceeding (Docket No. E999/AA-15-611) are discussed in the letter outlining audit requirements that was sent to the auditor.

D. 7825.2830 Annual Five-Year Projection

The monthly five-year projection of fuel cost by energy source for the period of 2023-2027 was provided as part of the Company's May 2, 2022 fuel forecast for calendar year 2023. The monthly five-year projection of fuel cost by energy source for the period of 2024-2028 will be provided as part of the Company's May 1, 2023 fuel forecast for calendar year 2024.

E. 7825.2840 Annual Notice of Reports Availability

Minn. Rule 7825.2840 requires utilities to provide notice of the availability of the reports defined in parts 7825.2800 to 7825.2830 to all intervenors in the utility's two previous general rate cases. In compliance with this rule, the Company is providing notice to all intervenors in our 2015 and 2021 electric rate cases who have requested to remain on the docket service lists.

V. OTHER COMPLIANCE ITEMS

Please see the Table of Contents for a complete list of attachments provided in compliance with a variety of Commission Orders in various dockets.

CONCLUSION

Xcel Energy respectfully requests the Commission approve our 2022 Annual True-Up Report, our proposal to refund \$3.8 million in over-recovered fuel costs for the 2022 calendar year, and the Electric AAA reporting requirements included in this report.

Dated: March 1, 2023

Northern States Power Company

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Northern States Power Company Electric Utility - State of Minnesota Comparison of Actual Fuel and Purchased Power Costs to Filed Forecast

| | 2022 (\$000) |
|---|-------------------------|
| MN Jurisdiction Fuel Collections | \$891,041 |
| MN Jurisdiction Fuel Costs | \$950,221 |
| (Over)/Under Recovery (Deferred to Balance Sheet) | \$59,181 Receivable |
| Collections via Mid-Year Rate Adjustment | \$62,934 |
| | |
| Net (Over)/Under Recovery | (\$3,753) Net Liability |

| Net (Over)/Under Recovery | | | (\$3,753) | Net Liability |
|------------------------------------|-------------|--------------|-------------|---------------|
| | Actual | Forecast (1) | Variance | % Variance |
| Coal | \$242,848 | \$138,083 | \$104,766 | |
| Wood/RDF | 8,951 | 9,392 | (441) | |
| Natural Gas & Oil | 264,511 | 161,071 | 103,440 | |
| Wind, Solar, Hydro | | 0 | 0 | |
| Nuclear Fuel | 117,174 | 115,474 | 1,700 | |
| Total Fuel | \$633,483 | \$424,020 | \$209,464 | 49.4% |
| Purchased Energy | 733,489 | 301,672 | 431,817 | |
| Purchased Energy (Solar) | 48,316 | 47,827 | 489 | |
| Community Solar*Gardens | 184,347 | 200,737 | (16,390) | |
| Purchased Energy (Wind) | 244,613 | 215,351 | 29,261 | |
| MISO Market Charges | (990) | 81,221 | (82,211) | |
| Total Purchased Power | \$1,209,774 | \$846,808 | \$362,966 | 42.9% |
| Less Sales Revenue | (\$564,368) | (\$135,833) | (\$428,535) | |
| Less Costs Direct Assigned (2) | (124,383) | (197,845) | 73,462 | |
| Net System Costs | \$1,154,506 | \$937,149 | \$217,357 | 23.2% |
| Net System Mwh Sales | 39,689,014 | 38,081,074 | 1,607,940 | 4.2% |
| System Cost in \$/Mwh | \$29.09 | \$24.61 | \$4.48 | 18.2% |
| MN Jurisdictional Fuel Cost | \$824,270 | \$664,597 | \$159,673 | |
| Direct Assigned Costs: | | | | |
| Solar Gardens - Above Market Cost | 99,883 | 161,853 | (61,970) | |
| Biomass Termination Costs | 22,906 | 22,998 | (92) | |
| Net Direct Assigned Costs | \$122,789 | \$184,850 | (\$62,061) | -33.6% |
| MN Direct Assigned | \$122,789 | \$184,850 | (\$62,061) | |
| SES Exemption | 831 | | 831 | |
| Saver Switch | 2,331 | | 2,331 | |
| Total MN Jurisdiction FCA Costs | \$950,221 | \$849,447 | \$100,774 | 11.9% |
| MN Jursdiction Mwh Sales | 28,318,349 | 26,988,335 | 1,330,013 | 4.9% |
| MN Jurisdiction FCA Cost in \$/MWh | \$33.55 | \$31.47 | \$2.08 | 6.6% |

| (1) |) As | filed | with | the | MP | UC | in | July | 2021 |
|-----|------|-------|------|-----|----|----|----|------|------|
|-----|------|-------|------|-----|----|----|----|------|------|

⁽²⁾ Community Solar Garden, Windsource, Renewable Connect

| 2022 GWh | 2022 \$/MWh |
|----------|-------------|
| | |

| Actual | Forecast (1) | Variance | Actual | Forecast (1) | Variance |
|----------|--------------|----------|----------|--------------|----------|
| 9,524 | 5,867 | 3,657 | \$25.50 | \$23.54 | \$1.96 |
| 513 | 442 | 71 | \$17.43 | \$21.23 | -\$3.80 |
| 4,381 | 4,695 | (313) | \$60.38 | \$34.31 | \$26.06 |
| 10,209 | 9,267 | 943 | \$0.00 | \$0.00 | \$0.00 |
| 14,696 | 14,599 | 97 | \$7.97 | \$7.91 | \$0.06 |
| 39,324 | 34,869 | 4,455 | \$16.11 | \$12.16 | \$3.95 |
| 7,485 | 6,140 | 1,345 | \$97.99 | \$49.13 | \$48.86 |
| 788 | 767 | 21 | \$61.32 | \$62.38 | -\$1.06 |
| 1,403.55 | 1,577.00 | (173) | \$131.34 | \$127.29 | \$4.05 |
| 6,470 | 6,688 | (218) | \$37.81 | \$32.20 | \$5.61 |
| 16,146 | 15,172 | 975 | \$74.92 | \$55.82 | \$19.11 |
| (13,721) | (7,251) | (6,470) | \$41.13 | \$18.73 | \$22.40 |
| 41,749 | 42,790 | (1,040) | \$27.65 | \$21.90 | \$5.75 |

\$/KWh

\$0.02787

\$0.03204

\$0.03418

\$0.03918

\$0.03790

\$0.03883

\$0.03147

\$0.03358

\$0.03868

\$0.03553

\$0.03114

\$0.02360

\$0.03355

| | (\$000) | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | 2022 Total |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|
| | Owned Generation | | | | | | | | | | | | | |
| | Fossil Fuel | | | | | | | | | | | | | |
| | Coal Wood/RDF | \$31,882 | \$21,690 \$722 | \$15,339 \$588 | \$5,195 \$540 | \$6,027 \$837 | \$23,008 \$862 | \$32,297 | \$29,570 | \$14,247 \$740 | \$16,713 | \$16,651 | \$30,229 \$951 | \$242,848 |
| | Natural Gas CC | \$352 \$16,162 | \$18,189 | \$13,306 | \$13,993 | \$13,279 | \$22,419 | \$1,002 \$26,333 | \$1,081 \$32,992 | \$24,435 | \$1,331 \$12,703 | \$775 \$8,604 | \$14,707 | \$9,781 \$217,122 |
| | Natural Gas & Oil CT | \$1,489 | \$859 | \$650 | \$512 | \$2,572 | \$6,694 | \$8,691 | \$9,821 | \$6,343 | \$3,162 | \$2,814 | \$2,953 | \$46,559 |
| 5 | Total Fossil Fuel 1+2+3+4 | \$49,886 | \$41,459 | \$29,883 | \$20,239 | \$22,715 | \$52,983 | \$68,323 | \$73,464 | \$45,765 | \$33,909 | \$28,843 | \$48,840 | \$516,310 |
| | Hydro | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 | Wind | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8 | Nuclear Fuel | \$9,634 | \$9,312 | \$10,231 | \$9,991 | \$10,136 | \$10,018 | \$10,345 | \$10,336 | \$9,940 | \$8,213 | \$8,822 | \$10,194 | \$117,174 |
| 9 | Total Fuel 5+6+7+8 | \$59,520 | \$50,772 | \$40,114 | \$30,230 | \$32,851 | \$63,001 | \$78,668 | \$83,800 | \$55,705 | \$42,122 | \$37,665 | \$59,035 | \$633,483 |
| | | | | | | | | | | | | | | |
| | Purchased Energy LT Purchased Energy (Gas) | \$11.568 | \$6,378 | \$5.032 | \$7.667 | \$10,488 | \$16,752 | \$22,644 | \$25,463 | \$17.102 | \$9.456 | \$7,874 | \$15.163 | \$155,586 |
| 11 | LT Purchased Energy (Solar) | \$1,872 | \$2,946 | \$4,152 | \$3,960 | \$5,393 | \$6,826 | \$6,382 | \$5,526 | \$5,154 | \$3,671 | \$1,798 | \$954 | \$48,633 |
| | Community Solar*Gardens LT Purchased Energy (Wind) | \$8,014 \$23,938 | \$11,620 \$23,095 | \$15,627 \$22,653 | \$13,644 \$22,319 | \$19,409 \$22,842 | \$22,929 \$17,301 | \$22,164 \$13,433 | \$21,705 \$13,797 | \$20,080 \$17,655 | \$16,110 \$21,634 | \$7,849 \$24,794 | \$4,880 \$21,152 | \$184,030 \$244,613 |
| | LT Purchased Energy (Other) | \$12,965 | \$9,020 | \$14,664 | \$10,627 | \$19,115 | \$20,694 | \$19,306 | \$21,086 | \$19,845 | \$13,773 | \$14,342 | \$15,229 | \$190,665 |
| 15 | Total Purchased Energy 10+11+12+13+14 | \$58,357 | \$53,058 | \$62,127 | \$58,216 | \$77,246 | \$84,501 | \$83,928 | \$87,576 | \$79,836 | \$64,645 | \$56,657 | \$57,379 | \$823,527 |
| | ST Market Purchase | \$10,793 | \$8,127 | \$10,367 | \$7,956 | \$14,068 | \$17,578 | \$12,144 | \$10,084 | \$27,330 | \$13,248 | \$5,083 | \$9,994 | \$146,773 |
| 17 | Asset Based Sales Revenues (Market Sales) | (\$56,191) (\$45,398) | (\$41,182) (\$33,055) | (\$26,479) (\$16,112) | (\$28,347) (\$20,391) | (\$26,562) (\$12,494) | (\$66,082) (\$48,504) | (\$69,845) (\$57,701) | (\$77,361) (\$67,277) | (\$54,424) (\$27,094) | (\$35,050) (\$21,801) | (\$25,377) (\$20,294) | (\$57,467) (\$47,473) | (\$564,368) (\$417,595) |
| 18 | Net Market Cost 16+17 | (\$45,398) | (400,000) | (\$10,112) | (\$20,391) | | (4 .0,00 .) | (\$57,701) | | 11 7 7 | | | (\$47,473) | |
| | MISO Cost | \$23,523 (\$21,875) | \$27,373 (\$5,682) | \$20,701 \$4.589 | \$42,432 \$22,041 | \$16,995 \$4,501 | \$12,237 (\$36,267) | \$15,303 (\$42,398) | \$18,498 (\$48.779) | \$14,433 (\$12,660) | \$19,832 (\$1,969) | \$18,142 (\$2,152) | \$10,004 (\$37,469) | \$239,474 (\$178,121) |
| 20 | Net MISO D2 and ASM Cost 18+19 | (321,873) | (\$3,082) | ş4,589 | 322,U41 | <i>Ş</i> 4,5U1 | (300,207) | (242,398) | (5+6,7/3) | (\$12,00U) | (51,303) | (32,132) | (557,409) | (\$1/8,121) |
| 21 | Total System Cost 9+15+20 | \$96,002 | \$98,148 | \$106,831 | \$110,488 | \$114,598 | \$111,235 | \$120,198 | \$122,597 | \$122,881 | \$104,798 | \$92,169 | \$78,944 | \$1,278,889 |
| 22 | Less Solar Gardens - Above Market Cost | (\$6,717) | (\$6,326) | (\$11,526) | (\$7,826) | (\$11,106) | (\$9,437) | (\$8,518) | (\$6,921) | (\$10,682) | (\$10,093) | (\$7,026) | (\$3,726) | (\$99,903) |
| 23 | Less WindSource | (\$1,315) | (\$2,340) | (\$1,188) | (\$1,919) | (\$1,249) | (\$904) | (\$1,284) | (\$1,571) | (\$1,591) | (\$1,583) | (\$1,912) | (\$1,333) | (\$18,190) |
| | Less Renewable*Connect Total Costs Direct Assigned 22+23+24 | (\$577) (\$8,609) | (\$492) (\$9,157) | (\$598) (\$13,313) | (\$476) (\$10,221) | (\$507) (\$12,862) | (\$407) (\$10,748) | (\$574) (\$10,376) | (\$586) (\$9,078) | (\$516) (\$12,789) | (\$544) (\$12,220) | (\$505) (\$9,443) | (\$509) (\$5,568) | (\$6,291) (\$124,383) |
| | | | | | | | | | | | | | | |
| 26 | Net System Costs 21+25 | \$87,394 | \$88,990 | \$93,518 | \$100,267 | \$101,736 | \$100,488 | \$109,822 | \$113,520 | \$110,092 | \$92,578 | \$82,726 | \$73,376 | \$1,154,506 |
| | Calendar Month MWh Sales | | | | | | | | | | | | | |
| | Total NSP-MN and NSP-WI Retail Sales Less Minnesota WindSource | 3,580,073 (41,206) | 3,142,828 (36,107) | 3,339,031 (39,429) | 2,919,141 (35,134) | 3,171,532 (33,750) | 3,494,812 (38,459) | 3,977,066 (43,350) | 3,790,147 (46,720) | 3,336,551 (42,460) | 3,112,578 (59,224) | 3,064,172 (38,300) | 3,435,142 (39,137) | 40,363,073 (493,276) |
| | Less Minnesota Renewable*Connect | (16,297) | (14,004) | (16,842) | (13,643) | (14,396) | (18,185) | (14,779) | (16,654) | (14,463) | (15,320) | (14,113) | (14,535) | (183,231) |
| 30 | Total System MWh Sales 27+28+29 | 3,522,570 | 3,092,717 | 3,282,760 | 2,870,364 | 3,123,386 | 3,438,168 | 3,918,937 | 3,726,773 | 3,279,628 | 3,038,034 | 3,011,759 | 3,381,470 | 39,686,566 |
| 31 | Minnesota Jurisdictional Retail Sales | 2,522,563 | 2,234,873 | 2,370,240 | 2,084,792 | 2,285,225 | 2,540,058 | 2,928,026 | 2,752,463 | 2,423,818 | 2,228,454 | 2,184,940 | 2,439,404 | 28,994,856 |
| | Less Minnesota WindSource | (41,206) | (36,107) | (39,429) | (35,134) | (33,750) | (38,459) | (43,350) | (46,720) | (42,460) | (59,224) | (38,300) | (39,137) | (493,276) |
| | Less Minnesota Renewable*Connect Total Minnesota Retail Sales 31+32+33 | (16,297) 2,465,060 | (14,004) 2,184,762 | (16,842) | (13,643) 2.036.015 | (14,396) | (18,185) 2,483,414 | (14,779) 2,869,897 | (16,654) 2,689,089 | (14,463) 2.366.895 | (15,320) 2.153.910 | (14,113) | (14,535) 2,385,732 | (183,231) 28,318,349 |
| | | | | | | | | | | | | | | |
| 35 | System Fuel Costs in cents/kWh 26/30x100 | 2.481¢ | 2.877¢ | 2.849¢ | 3.493¢ | 3.257¢ | 2.923¢ | 2.802¢ | 3.046¢ | 3.357¢ | 3.047¢ | 2.747¢ | 2.170¢ | 2.909¢ |
| | Minnesota Jurisdictional Energy Costs | | | | | | | | | | | | | |
| | System Fuel Costs in cents/kWh 35 Total Minnesota Retail Sales Subject to FCA 34 | 2.481¢ 2,465,060 | 2.877¢ 2,184,762 | 2.849¢ 2,313,969 | 3.493¢ 2,036,015 | 3.257¢ 2,237,079 | 2.923¢ 2,483,414 | 2.802¢ 2,869,897 | 3.046¢ 2,689,089 | 3.357¢ 2,366,895 | 3.047¢ 2,153,910 | 2.747¢ 2,132,527 | 2.170¢ 2,385,732 | 28,318,349 |
| | Minnesota Costs Subject to FCA 36x37100 | \$61,158 | \$62,856 | \$65,925 | \$71,118 | \$72,862 | \$72,590 | \$80,415 | \$81,910 | \$79,457 | \$65,629.638 | \$58,581 | \$51,770 | \$824,270 |
| | MN Direct Assigned Cost (Solar Gardens & Biomass PPA Buyout) | | | | | | | | | | | | | |
| 39 | Solar Garden Above Market Direct Recovery | \$6,717 | \$6,320 | \$11,514 | \$7,823 | \$11,102 | \$9,438 | \$8,523 | \$6,929 | \$10,683 | \$10,097 | \$7,012 | \$3,724 | \$99,883 |
| | Laurentian Payment Benson Buyout costs | \$0 \$838 | \$0 \$835 | \$0 \$831 | \$0 \$828 | \$0 \$825 | \$13,062 \$822 | \$0 \$819 | \$0 \$816 | \$0 \$813 | \$0 \$809.396 | \$0 \$806 | \$0 \$803 | \$13,062 \$9,844 |
| | MN Direct Assigned Total | \$7,555 | \$7,155 | \$12,346 | \$8,651 | \$11,927 | \$23,321 | \$9,342 | \$7,745 | \$11,496 | \$10,906.016 | \$7,819 | \$4,528 | \$122,789 |
| 42 | Minnesota Direct Assigned Cost in cents/kWh 43/34*100 | 0.306¢ | 0.327¢ | 0.534¢ | 0.425¢ | 0.533¢ | 0.939¢ | 0.326¢ | 0.288¢ | 0.486¢ | 0.506¢ | 0.367¢ | 0.190¢ | 0.434¢ |
| | | | | | | | | | | | | | | |
| 44 | Minnesota Fuel Costs in cents/kWh 35+44 | 2.787¢ | 3.204¢ | 3.383¢ | 3.918¢ | 3.790¢ | 3.862¢ | 3.128¢ | 3.334¢ | 3.843¢ | 3.553¢ | 3.114¢ | 2.360¢ | 3.343¢ |
| 45 | Minnesota Fuel Costs Subtotal 45*34/100 | \$68,713 | \$70,011 | \$78,271 | \$79,769 | \$84,789 | \$95,912 | \$89,756 | \$89,655 | \$90,952 | \$76,536 | \$66,399 | \$56,298 | \$947,059 |
| | | | | | | | | | | | | | | |
| | Other Adjustments SES Exemption Recovery | \$0 | \$0 | \$831 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$831 |
| 47 | Saver's Switch Discount Adjustment | | | | | | \$526 | \$553 | \$653 | \$598 | • | | | \$2,331 |
| | Other Other Adjustments Total | \$0 | \$0 | \$831 | \$0 | \$0 | \$526 | \$553 | \$653 | \$598 | \$0 | \$0 | \$0 | \$0 \$3,162 |
| | | | | | - | | | , | | | | | 7. | |
| 50 | Minnesota Fuel Costs 46+50 | \$68,713 | \$70,011 | \$79,102 | \$79,769 | \$84,789 | \$96,438 | \$90,309 | \$90,308 | \$91,551 | \$76,536 | \$66,399 | \$56,298 | \$950,221 |
| | | | | | | | | | | | | | | |
| 51 | Minnesota Fuel Costs in cents/kWh 51/34x100 | 2.787¢ | 3.204¢ | 3.418¢ | 3.918¢ | 3.790¢ | 3.883¢ | 3.147¢ | 3.358¢ | 3.868¢ | 3.553¢ | 3.114¢ | 2.360¢ | 3.355¢ |
| 52 | Minnesota Fuel Costs in \$/MWh 52x10 | \$27.87 | \$32.04 | \$34.18 | \$39.18 | \$37.90 | \$38.83 | \$31.47 | \$33.58 | \$38.68 | \$35.53 | \$31.14 | \$23.60 | \$33.55 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

2023 Monthly Fuel Clause Charges With 2021 & Proposed 2022 True-Up (\$/KWh)

| | | Commercial & Industrial | | | | | | | | |
|--------------|---|---|--|----------------------|-------------------|-------------|--|--|--|--|
| | Residential | Non-Demand | | Demand | | Outdoor | | | | |
| | | Non-Demand | Non-TOD | On-Peak | Off-Peak | Lighting | | | | |
| | | | | | | | | | | |
| January | | | | | | | | | | |
| Forecast | \$0.03012 | \$0.03050 | \$0.02955 | \$0.03693 | \$0.02419 | \$0.02363 | | | | |
| 2021 True-Up | \$0.00304 | \$0.00308 | \$0.00299 | \$0.00373 | \$0.00244 | \$0.00238 | | | | |
| Total | \$0.03316 | \$0.03358 | \$0.03254 | \$0.04066 | \$0.02663 | \$0.02601 | | | | |
| February | | | | | | | | | | |
| Forecast | \$0.03263 | \$0.03304 | \$0.03201 | \$0.04003 | \$0.02618 | \$0.02557 | | | | |
| 2021 True-Up | \$0.00352 | \$0.00357 | \$0.00345 | \$0.00432 | \$0.00283 | \$0.00276 | | | | |
| Total | <u>\$0.03615</u> | \$0.0366 <u>1</u> | \$0.03546 | <u>\$0.04435</u> | <u>\$0.02901</u> | \$0.02833 | | | | |
| March | | | | | | | | | | |
| Forecast | \$0.03963 | \$0.04013 | \$0.03888 | \$0.04862 | \$0.03180 | \$0.03106 | | | | |
| 2021 True-Up | \$0.00310 | \$0.00314 | \$0.00305 | \$0.00381 | \$0.00249 | \$0.00243 | | | | |
| Total | \$0.04273 | \$0.04327 | \$0.04193 | \$0.05243 | \$0.03429 | \$0.03349 | | | | |
| April | | | | | | | | | | |
| Forecast | \$0.04404 | \$0.04460 | \$0.04321 | \$0.05401 | \$0.03536 | \$0.03454 | | | | |
| 2021 True-Up | \$0.00357 | \$0.00362 | \$0.00350 | \$0.00438 | \$0.00287 | \$0.00280 | | | | |
| Total | \$0.04761 | \$0.04822 | \$0.04671 | \$0.05839 | \$0.03823 | \$0.03734 | | | | |
| May | | | | | | | | | | |
| Forecast | \$0.04546 | \$0.04603 | \$0.04460 | \$0.05575 | \$0.03650 | \$0.03565 | | | | |
| 2021 True-Up | \$0.00335 | \$0.00339 | \$0.00328 | \$0.00411 | \$0.00269 | \$0.00262 | | | | |
| Total | \$0.04881 | \$0.04942 | \$0.04788 | \$0.05986 | \$0.03919 | \$0.03827 | | | | |
| June | | | | | | | | | | |
| Forecast | \$0.04801 | \$0.04862 | \$0.04710 | \$0.05890 | \$0.03854 | \$0.03764 | | | | |
| 2021 True-Up | \$0.00306 | \$0.00310 | \$0.00301 | \$0.00376 | \$0.00246 | \$0.00240 | | | | |
| Total | \$0.05107 | \$0.05172 | \$0.05011 | \$0.06266 | \$0.04100 | \$0.04004 | | | | |
| July | | | | | | | | | | |
| Forecast | \$0.04295 | \$0.04349 | \$0.04213 | \$0.05269 | \$0.03446 | \$0.03366 | | | | |
| 2021 True-Up | \$0.00266 | \$0.00269 | \$0.00261 | \$0.00326 | \$0.00213 | \$0.00208 | | | | |
| Total | \$0.04561 | \$0.04618 | \$0.04474 | \$0.05595 | \$0.03659 | \$0.03574 | | | | |
| August | *************************************** | *************************************** | # U. U. I. | | ******* | <u> </u> | | | | |
| Forecast | \$0.04274 | \$0.04328 | \$0.04193 | \$0.05245 | \$0.03429 | \$0.03349 | | | | |
| 2021 True-Up | \$0.00273 | \$0.00276 | \$0.00268 | \$0.00335 | \$0.00219 | \$0.00214 | | | | |
| Total | \$0.04547 | \$0.04604 | \$0.04461 | \$0.05580 | \$0.03648 | \$0.03563 | | | | |
| September | <u> </u> | <u>\$0.01001</u> | 90.01101 | 90.05500 | 90.03010 | 90.03303 | | | | |
| Forecast | \$0.04175 | \$0.04227 | \$0.04095 | \$0.05121 | \$0.03351 | \$0.03273 | | | | |
| 2022 True-Up | (\$0.00167) | (\$0.00169) | (\$0.00164) | (\$0.00205) | (\$0.00134) | (\$0.00131) | | | | |
| Total | \$0.04008 | \$0.04058 | \$0.03931 | \$0.04916 | \$0.03217 | \$0.03142 | | | | |
| October | 4010 1000 | \$610 1000 | 40100701 | 4010 1710 | 40100211 | 40100112 | | | | |
| Forecast | \$0.03881 | \$0.03930 | \$0.03808 | \$0.04761 | \$0.03115 | \$0.03043 | | | | |
| 1 orcease | ψ0.03001 | Ψ0.05750 | Q 0.03000 | ψ0.01701 | ψ0.03113 | ψ0.03013 | | | | |
| Total | \$0.03881 | \$0.03930 | \$0.03808 | \$0.0476 <u>1</u> | \$0.0311 <u>5</u> | \$0.03043 | | | | |
| November | <u>=</u> | <u> </u> | | # JIV 1 / JI | <u> </u> | #7103013 | | | | |
| Forecast | \$0.03580 | \$0.03625 | \$0.03512 | \$0.04392 | \$0.02873 | \$0.02806 | | | | |
| 1 0100001 | ψ0.03300 | φ0.03023 | ψ0.03312 | Ψ0.0 T37Δ | ψ0.0 2 073 | φ0.02000 | | | | |
| Total | \$0.03580 | \$0.03625 | \$0.03512 | \$0.04392 | \$0.02873 | \$0.02806 | | | | |
| December | 90.05500 | 90.03023 | QU.U331Z | \$0.013 <i>7L</i> | \$0.02075 | 90.02000 | | | | |
| Forecast | \$0.03303 | \$0.03345 | \$0.03241 | \$0.04051 | \$0.02652 | \$0.02591 | | | | |
| 1 OICCAST | ψ0.0 <i>33</i> 03 | ΨU.UJJ#J | φυ.UJΔ†1 | Ψ0.0T0J1 | ψ0.02032 | φυ.υΔ331 | | | | |
| | | 1 | | | | | | | | |

Northern States Power Company Electric Utility - State of Minnesota 2022 & 2021 Under (+)/Over(-) Recovered Expense and Proposed 2022 True-Up Rate Calculation

| (\$000) | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | 2022 Total |
|---|-------------------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|
| (\$000) | Jan-22 | Feb-22 | IVIAT-22 | Apr-22 | iviay-22 | Jun-22 | Jui-22 | Aug-22 | Sep-22 | Oct-22 | NOV-22 | Dec-22 | 2022 Total |
| 2022 FCA Factors | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Approved Forecast Fuel Cost Charge (Docket No. E002/AA-21-295, July 30, 2021 Reply Comments Filing . Appro | aual Order Dated Decemb | or 2 2021\ | | | | | | | | | | | |
| 1 Residential | 2.597¢ | er 2, 2021) 3.066¢ | 3.268¢ | 3.256¢ | 3.453¢ | 3.979¢ | 3.392¢ | 3.386¢ | 3.328¢ | 3.116¢ | 2.891¢ | 2.662¢ | |
| 2 C&I Non-Demand | 2.630¢ | 3.104¢ | 3.309¢ | 3.297¢ | 3.496¢ | 4.029¢ | 3.435¢ | 3.428¢ | 3.369¢ | 3.155¢ | 2.927¢ | 2.696¢ | |
| 3 C&I Demand Non-TOD | 2.548¢ | 3.008¢ | 3.206¢ | 3.194¢ | 3.387¢ | 3.903¢ | 3.328¢ | 3.321¢ | 3.265¢ | 3.057¢ | 2.836¢ | 2.612¢ | |
| 4 C&I Demand On-Peak | 3.184¢ | 3.761¢ | 4.009¢ | 3.992¢ | 4.234¢ | 4.880¢ | 4.161¢ | 4.154¢ | 4.081¢ | 3.822¢ | 3.546¢ | 3.265¢ | |
| 5 C&I Demand Off-Peak 6 Outdoor Lighting | 2.086¢ 2.038¢ | 2.460¢ 2.403¢ | 2.623¢ 2.562¢ | 2.614¢ 2.554¢ | 2.772¢ 2.708¢ | 3.194¢ 3.119¢ | 2.722¢ 2.658¢ | 2.716¢ 2.653¢ | 2.671¢ 2.609¢ | 2.501¢ 2.443¢ | 2.320¢ 2.266¢ | 2.138¢ 2.088¢ | |
| 6 Outdoor Lighting | 2.036¢ | 2.403¢ | 2.562¢ | 2.554¢ | 2.708¢ | 3.119¢ | 2.056¢ | 2.0534 | 2.609¢ | 2.443¢ | 2.2000 | 2.0864 | |
| Mid-Year Adjustment | | | | | | | | | | | | | |
| (Docket No. E002/AA-21-295, May 19, 2022 Compliance Filing - Rate Adjus | | | | | | | | | | | | | |
| 7 Residential 8 C&I Non-Demand | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ 0.000¢ | 0.000¢ | 0.384¢ 0.388¢ | 0.392¢ 0.397¢ | 0.466¢ 0.472¢ | 0.477¢ 0.483¢ | 0.493¢ 0.499¢ | 0.452¢ 0.458¢ | |
| 9 C&I Demand Non-TOD | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.376¢ | 0.397¢ | 0.472¢ 0.457¢ | 0.468¢ | 0.499¢ 0.483¢ | 0.4580 | |
| 10 C&I Demand On-Peak | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.471¢ | 0.481¢ | 0.572¢ | 0.586¢ | 0.604¢ | 0.554¢ | |
| 11 C&I Demand Off-Peak | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.308¢ | 0.314¢ | 0.374¢ | 0.383¢ | 0.395¢ | 0.363¢ | |
| 12 Outdoor Lighting | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.301¢ | 0.307¢ | 0.365¢ | 0.374¢ | 0.386¢ | 0.354¢ | |
| Forecast Factors with Mid-Year Adjustment | | | | | | | | | | | | | |
| 13 Residential 1+7 | 2.597¢ | 3.066¢ | 3.268¢ | 3.256¢ | 3.453¢ | 3.979¢ | 3.776¢ | 3.778¢ | 3.794¢ | 3.593¢ | 3.384¢ | 3.114¢ | |
| 14 C&I Non-Demand 2+8 | 2.630¢ | 3.104¢ | 3.309¢ | 3.297¢ | 3.496¢ | 4.029¢ | 3.823¢ | 3.825¢ | 3.841¢ | 3.638¢ | 3.426¢ | 3.154¢ | |
| 15 C&I Demand Non-TOD 3+9 | 2.548¢ | 3.008¢ | 3.206¢ | 3.194¢ | 3.387¢ | 3.903¢ | 3.704¢ | 3.705¢ | 3.722¢ | 3.525¢ | 3.319¢ | 3.055¢ | |
| 16 C&I Demand On-Peak 4+10 17 C&I Demand Off-Peak 5+11 | 3.184¢ 2.086¢ | 3.761¢ 2.460¢ | 4.009¢ 2.623¢ | 3.992¢ 2.614¢ | 4.234¢ 2.772¢ | 4.880¢ 3.194¢ | 4.632¢ 3.030¢ | 4.635¢ 3.030¢ | 4.653¢ 3.045¢ | 4.408¢ 2.884¢ | 4.150¢ 2.715¢ | 3.819¢ 2.501¢ | |
| 18 Outdoor Lighting 6+12 | 2.038¢ | 2.403¢ | 2.562¢ | 2.554¢ | 2.772¢ 2.708¢ | 3.119¢ | 2.959¢ | 2.960¢ | 2.974¢ | 2.817¢ | 2.652¢ | 2.442¢ | |
| | | | | | | | | | | | | | |
| 2021 True Up | | | | | | | | | | | | | |
| (Docket No. E002/AA-20-417, March 1, 2022, Annual True-up Compliance | | 0.000c | 0.000+ | 0.000+ | 0.0004 | 0.000+ | 0.000+ | 0.000+ | 0.2254 | 0.2224 | 0.2404 | 0.2004 | |
| 19 Residential 20 C&I Non-Demand | 0.000¢ 0.000¢ | 0.000¢ | 0.000¢ 0.000¢ | 0.000¢ 0.000¢ | 0.000¢ 0.000¢ | 0.000¢ 0.000¢ | 0.000¢ 0.000¢ | 0.000¢ 0.000¢ | 0.325¢ 0.329¢ | 0.333¢ 0.337¢ | 0.340¢ 0.344¢ | 0.309¢ 0.313¢ | |
| 21 C&I Demand Non-TOD | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.318¢ | 0.326¢ | 0.333¢ | 0.304¢ | |
| 22 C&I Demand On-Peak | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.398¢ | 0.408¢ | 0.417¢ | 0.380¢ | |
| 23 C&I Demand Off-Peak | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.260¢ | 0.267¢ | 0.273¢ | 0.248¢ | |
| 24 Outdoor Lighting | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.000¢ | 0.254¢ | 0.261¢ | 0.266¢ | 0.242¢ | |
| 2022 Forecast Factors with 2021 True Up | | | | | | | | | | | | | |
| 25 Residential 13+19 | 2.597¢ | 3.066¢ | 3.268¢ | 3.256¢ | 3.453¢ | 3.979¢ | 3.776¢ | 3.778¢ | 4.119¢ | 3.926¢ | 3.724¢ | 3.423¢ | |
| 26 C&I Non-Demand 14+20 | 2.630¢ | 3.104¢ | 3.309¢ | 3.297¢ | 3.496¢ | 4.029¢ | 3.823¢ | 3.825¢ | 4.170¢ | 3.975¢ | 3.770¢ | 3.467¢ | |
| 27 C&I Demand Non-TOD 15+21 | 2.548¢ | 3.008¢ | 3.206¢ | 3.194¢ | 3.387¢ | 3.903¢ | 3.704¢ | 3.705¢ | 4.040¢ | 3.851¢ | 3.652¢ | 3.359¢ | |
| 28 C&I Demand On-Peak 16+22 29 C&I Demand Off-Peak 17+23 | 3.184¢ 2.086¢ | 3.761¢ 2.460¢ | 4.009¢ 2.623¢ | 3.992¢ 2.614¢ | 4.234¢ 2.772¢ | 4.880¢ 3.194¢ | 4.632¢ 3.030¢ | 4.635¢ 3.030¢ | 5.051¢ 3.305¢ | 4.816¢ 3.151¢ | 4.567¢ 2.988¢ | 4.199¢ 2.749¢ | |
| 30 Outdoor Lighting 18+24 | 2.038¢ | 2.403¢ | 2.562¢ | 2.554¢ | 2.708¢ | 3.119¢ | 2.959¢ | 2.960¢ | 3.228¢ | 3.078¢ | 2.918¢ | 2.684¢ | |
| | | | | | | | | | | | | | |
| Minnesota Calendar Month Retail Sales | | | | | | | | | | | | | |
| Minnesota Retail Sales: | | | | | | | | | | | | | |
| 31 Residential | 860,826 | 721,935 | 720,310 | 596,515 | 650,592 | 852,657 | 1,025,457 | 912,988 | 711,275 | 598,235 | 634,111 | 805,346 | 9,090,247 |
| 32 C&I Non-Demand 33 C&I Demand Non-TOD | 78,128 750,452 | 72,140 677,452 | 76,560 738,110 | 63,608 644,789 | 65,315 715,889 | 66,566 758,678 | 75,377 848,958 | 71,649 827,569 | 64,024 756,916 | 58,318 695,927 | 59,778 664,292 | 71,558 731,515 | 823,021 8,810,547 |
| 34 C&I Demand On-Peak | 294.120 | 283,010 | 316,644 | 295,268 | 317,052 | 321,465 | 375,193 | 356,652 | 343,561 | 335,990 | 311,056 | 305,081 | 3,855,092 |
| 35 C&I Demand Off-Peak | 524,633 | 469,866 | 507,880 | 474,964 | 530,043 | 533,012 | 595,821 | 575,843 | 539,028 | 529,904 | 504,164 | 512,833 | 6,297,991 |
| 36 Outdoor Lighting | 14,403 | 10,469 | 10,734 | 9,648 | 6,334 | 7,680 | 7,220 | 7,762 | 9,014 | 10,080 | 11,539 | 13,071 | 117,954 |
| 37 Total 31+32+33+34+35+36 | 2,522,562 | 2,234,872 | 2,370,238 | 2,084,792 | 2,285,225 | 2,540,058 | 2,928,026 | 2,752,463 | 2,423,818 | 2,228,454 | 2,184,940 | 2,439,404 | 28,994,852 |
| Less WindSource & Renewable*Connect | | | | | | | | | | | | | |
| 38 Residential | 22,092 | 18,644 | 21,864 | 17,586 | 16,793 | 19,314 | 22,209 | 23,472 | 19,854 | 16,471 | 15,801 | 18,166 | 232,266 |
| 39 C&I Non-Demand | 405 | 383 | 1,267 | 745 | 3,587 | 3,962 | 4,030 | 4,068 | 4,047 | 4,885 | 3,526 | 3,434 | 34,339 |
| 40 C&I Demand Non-TOD 41 C&I Demand On-Peak | 6,230 11,714 | 5,846 10,266 | 18,536 5.962 | 18,348 4.914 | 16,719 4,487 | 18,987 5.872 | 20,717 | 22,577 | 21,448 | 19,796 | 18,677 | 18,245 | 206,126 83,079 |
| 41 C&I Demand Off-Peak 42 C&I Demand Off-Peak | 11,714 | 10,266 | 5,962 8,640 | 4,914 7,121 | 6,503 | 5,872 8,509 | 4,562 6,611 | 5,413 7,844 | 4,726 6,848 | 13,634 19,758 | 5,883 8,526 | 5,646 8,181 | 120,394 |
| 43 Outdoor Lighting | 85 | 94 | 2 | 63 | 57 | - | - | | - | - | - | | 301 |
| 44 Total 38+39+40+41+42+43 | 57,502 | 50,110 | 56,271 | 48,777 | 48,146 | 56,644 | 58,129 | 63,374 | 56,923 | 74,544 | 52,413 | 53,672 | 676,505 |
| Minnesota FCA Calendar Month Sales: | | | | | | | | | | | | | |
| 45 Residential 31-38 | 838,734 | 703,291 | 698,446 | 578,929 | 633,799 | 833,343 | 1,003,248 | 889,516 | 691,421 | 581,764 | 618,310 | 787,180 | 8,857,981 |
| 46 C&I Non-Demand 32-39 | 77,723 | 71,757 | 75,293 | 62,863 | 61,728 | 62,604 | 71,347 | 67,581 | 59,977 | 53,433 | 56,252 | 68,124 | 788,682 |
| 47 C&I Demand Non-TOD 33-40 | 744,222 | 671,606 | 719,574 | 626,441 | 699,170 | 739,691 | 828,241 | 804,992 | 735,468 | 676,131 | 645,615 | 713,270 | 8,604,421 |
| 48 C&I Demand On-Peak 34-41 | 282,406 | 272,744 | 310,682 | 290,354 | 312,565 | 315,593 | 370,631 | 351,239 | 338,835 | 322,356 | 305,173 | 299,435 | 3,772,013 |
| 49 C&I Demand Off-Peak 35-42 50 Outdoor Lighting 36-43 | 507,657 14,318 | 454,989 10,375 | 499,240 10,732 | 467,843 9,585 | 523,540 6,277 | 524,503 7,680 | 589,210 7,220 | 567,999 7,762 | 532,180 9,014 | 510,146 10,080 | 495,638 11,539 | 504,652 13,071 | 6,177,597 117,653 |
| 50 Outdoor Lighting 36-43 51 Total 45+46+47+48+49+50 | 2,465,060 | 2,184,762 | 2,313,967 | 2,036,015 | 2,237,079 | 2,483,414 | 2,869,897 | 2,689,089 | 2,366,895 | 2,153,910 | 2,132,527 | 2,385,732 | 28,318,347 |
| | _, .05,000 | -, 1,, 02 | -,0,507 | _,_50,015 | -,-5,,5,5 | -, , | -,,, | -,-55,005 | _,_ 50,055 | -,-33,313 | -, | _,_00,,02 | _3,310,347 |

| | _ | | | | | | | | | | | | |
|---|----------------------|-----------------|------------------|-----------|----------|----------|------------|-----------|----------|----------|-----------|------------|-----------|
| | | | | | | | | | | | | | |
| Recovery Based on 2022 Forecast Factors with Mid-Year Adjustm | ent | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 52 Residential 13x45/100 | \$21,782 | \$21,563 | \$22,825 | \$18,850 | \$21,885 | \$33,159 | \$37,883 | \$33,606 | \$26,233 | \$20,903 | \$20,924 | \$24,513 | \$304,124 |
| 53 C&I Non-Demand 14x46/100 | \$2,044 | \$2,227 | \$2,491 | \$2,073 | \$2,158 | \$2,522 | \$2,728 | \$2,585 | \$2,304 | \$1,944 | \$1,927 | \$2,149 | \$27,152 |
| 54 C&I Demand Non-TOD 15x47/100 | \$18,963 | \$20,202 | \$23,070 | \$20,009 | \$23,681 | \$28,870 | \$30,678 | \$29,825 | \$27,374 | \$23,834 | \$21,428 | \$21,790 | \$289,723 |
| 55 C&I Demand On-Peak 16x48/100 | \$8,992 | \$10,258 | \$12,455 | \$11,591 | \$13,234 | \$15,401 | \$17,168 | \$16,280 | \$15,766 | \$14,209 | \$12,665 | \$11,435 | \$159,454 |
| 56 C&I Demand Off-Peak 17x49/100 | \$10,590 | \$11,193 | \$13,095 | \$12,229 | \$14,513 | \$16,753 | \$17,853 | \$17,210 | \$16,205 | \$14,713 | \$13,457 | \$12,621 | \$170,431 |
| 57 Outdoor Lighting 18x49/100 | \$292 | \$249 | \$275 | \$245 | \$170 | \$240 | \$214 | \$230 | \$268 | \$284 | \$306 | \$319 | \$3,091 |
| 58 MN Fuel Recoveries excluding 2021 True Up 52+53+54+55+56+57 | \$62,662 | \$65,692 | \$74,211 | \$64,996 | \$75,640 | \$96,944 | \$106,523 | \$99,736 | \$88,149 | \$75,886 | \$70,706 | \$72,828 | \$953,975 |
| | | | | | | | | | | | | | |
| 2022 Under (+)/Over(-) Recovered Expense | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 59 Expected Minnesota Fuel Costs Recovery '2022 Actual' Line 50 | \$68,713 | \$70,011 | \$79,102 | \$79,769 | \$84,789 | \$96,438 | \$90,309 | \$90,308 | \$91,551 | \$76,536 | \$66,399 | \$56,298 | \$950,221 |
| 60 | | | | | | | | | | | | | |
| 61 Minnesota Actual Recovery 58 | \$62,662 | \$65,692 | \$74,211 | \$64,996 | \$75,640 | \$96,944 | \$106,523 | \$99,736 | \$88,149 | \$75,886 | \$70,706 | \$72,828 | \$953,975 |
| | | | | | | | | | | | | | |
| 62 2022 Total Under (+)/Over(-) Recovered Exp | \$6,050 | \$4,318 | \$4,891 | \$14,773 | \$9,148 | (\$506) | (\$16,213) | (\$9,428) | \$3,402 | \$649 | (\$4,307) | (\$16,530) | (\$3,753) |
| | | | | | | | | | | | | | , |
| | | | | | | | | | | | | | |
| 2021 True Up Recovery (TRUE UP OF 2021 TRUE UP RECOVERY W | ILL BE DETERMINED AF | TER THE 12 MONT | HS RECOVERY IS C | OMPLETED) | | | | | | | | | |
| | | | | | | | | | | | | | |
| 63 Expected 2021 True Up Recovery | | | | | | | | | \$6,814 | \$6,814 | \$6,814 | \$6,814 | \$27,255 |
| | | | | | | | | | | | | | |
| Actual Recovery | | | | | | | | | | | | | |
| 64 Residential 13x45/100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,247 | \$1,937 | \$2,102 | \$2,432 | \$8.719 |

| 2021 True Up Recovery (TRUE UP OF 2021 TRUE UP RECOVERY | WILL BE DETERMINED AFTER | R THE 12 MONTHS | RECOVERY IS COM | IPLETED) | | | | | | | | | |
|---|--------------------------|-----------------|-----------------|----------|-----|-----|-----|-----|---------|---------|---------|---------|-----------|
| 63 Expected 2021 True Up Recovery | | | | | | | | | \$6,814 | \$6,814 | \$6,814 | \$6,814 | \$27,255 |
| Actual Recovery | | | | | | | | | | | | | |
| 64 Residential 13x45/100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,247 | \$1,937 | \$2,102 | \$2,432 | \$8,719 |
| 65 C&I Non-Demand 14x46/100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$197 | \$180 | \$194 | \$213 | \$784 |
| 66 C&I Demand Non-TOD 15x47/100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,339 | \$2,204 | \$2,150 | \$2,168 | \$8,861 |
| 67 C&I Demand On-Peak 16x48/100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,349 | \$1,315 | \$1,273 | \$1,138 | \$5,074 |
| 68 C&I Demand Off-Peak 17x49/100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,384 | \$1,362 | \$1,353 | \$1,252 | \$5,350 |
| 69 Outdoor Lighting 18x49/100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$23 | \$26 | \$31 | \$32 | \$112 |
| 70 2021 True Up Recovery 52+53+54+55+56+57 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$7,538 | \$7,025 | \$7,102 | \$7,235 | \$28,900 |
| 71 Deferred 2021 Total Under (+)/Over(-) Recovered | | | | | | | | | (\$725) | (\$211) | (\$288) | (\$421) | (\$1,645) |
| Exp 63-70 | | | | | | | | | (4,23) | (7222) | (\$200) | (4-22) | (92)045) |

| Proposed One-Month Refund | |
|---|--|
| | |
| Refund Amount 62 | |
| Forecast Net Minnesota MWh Sales | |
| 4 True Up Refund Factor (\$/kWh) 72/73 | |
| FAF Ratio | |
| 5 Residential 5 C&I Non-Demand | |
| 7 C&I Demand Non-TOD | |
| 8 C&I Demand On-Peak | |
| 9 C&I Demand Off-Peak | |
| 0 Outdoor Lighting | |
| | |
| Proposed True Up Factor by Class Category | |
| 1 Residential 74*75 | |
| 2 C&I Non-Demand 74*76 | |
| 3 C&I Demand Non-TOD 74*77 | |
| 4 C&I Demand On-Peak 74*78 | |
| 5 C&I Demand Off-Peak 74*79 | |
| Outdoor Lighting 74*80 | |
| Forecast Fuel Cost Factors | |
| 7 Residential | |
| 8 C&I Non-Demand | |
| 9 C&I Demand Non-TOD | |
| 0 C&I Demand On-Peak | |
| 1 C&I Demand Off-Peak | |
| 2 Outdoor Lighting | |
| Forecast Fuel Cost Factors With Proposed 2022 True Up | |
| 3 Residential 81+87 | |
| 4 C&I Non-Demand 82+88 | |
| 5 C&I Demand Non-TOD 83+89 | |
| 6 C&I Demand On-Peak 84+90 | |
| 7 C&I Demand Off-Peak 85+91 | |
| 8 Outdoor Lighting 86+92 | |

| Proposed One-Month Refund - General TOU Pilot Program | |
|---|-------|
| | Sep-2 |
| 99 True Up Refund Factor (\$/kWh) 74 | (\$0 |
| FAF Ratio | |
| 100 C&I Demand TOU Pilot Peak | |
| 101 C&I Demand TOU Pilot Base | |
| 102 C&I Demand TOU Pilot Off-Peak | |
| Proposed True Up Factor by Class Category | |
| 103 C&I Demand TOU Pilot Peak 99*100 | (\$0 |
| 104 C&I Demand TOU Pilot Base 99*101 | (\$0 |
| 105 C&I Demand TOU Pilot Off-Peak 99*102 | (\$0 |
| Forecast Fuel Cost Factors | |
| 106 C&I Demand TOU Pilot Peak | \$1 |
| 107 C&I Demand TOU Pilot Base | \$0 |
| 108 C&I Demand TOU Pilot Off-Peak | \$ |
| Forecast Fuel Cost Factors With Proposed 2022 True Up | |
| 109 C&I Demand TOU Pilot Peak 103+106 | \$0 |
| 110 C&I Demand TOU Pilot Base 104+107 | \$0 |
| 111 C&I Demand TOU Pilot Off-Peak 105+108 | \$0 |

Northern States Power Company (Minnesota) Electric Utility - State of Minnesota Company Generation, Purchased Power and Other GWh

|] | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | 2022Total |
|--|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | | | | | | | | | | | | | _ |
| Owned Generation Fossil Fuel | | | | | | | | | | | | | |
| 1 Coal | 1,304.3 | 880.6 | 630.4 | 187.9 | 223.3 | 1,009.8 | 1,310.8 | 1,154.5 | 530.0 | 618.4 | 598.8 | 1,075.0 | 9,523.9 |
| 2 Wood/RDF | 42.8 | 41.5 | 32.0 | 36.8 | 48.2 | 48.2 | 48.0 | 49.4 | 30.4 | 48.0 | 44.1 | 44.0 | 513.5 |
| 3 Natural Gas CC | 398.4 | 368.3 | 264.6 | 248.3 | 195.9 | 333.9 | 493.2 | 505.1 | 420.8 | 263.4 | 149.1 | 211.8 | 3,852.6 |
| 4 Natural Gas & Oil CT | 21.3 | 16.9 | 4.0 | 11.5 | 27.2 | 75.2 | 123.0 | 105.7 | 52.0 | 26.6 | 28.1 | 36.9 | 528.5 |
| 5 Subtotal | 1,766.9 | 1,307.3 | 930.9 | 484.6 | 494.6 | 1,467.1 | 1,974.9 | 1,814.7 | 1,033.2 | 956.5 | 820.1 | 1,367.7 | 14,418.5 |
| | | | | | | | | | | | | | |
| 6 Hydro | 53.3 | 42.6 | 89.7 | 156.6 | 129.6 | 69.8 | 49.6 | 54.0 | 43.7 | 39.0 | 65.8 | 54.2 | 848.0 |
| 7 Wind | 918.0 | 839.1 | 910.7 | 962.4 | 708.0 | 644.4 | 549.2 | 529.8 | 671.5 | 833.8 | 951.2 | 843.2 | 9,361.3 |
| 8 Nuclear Fuel | 1,220.8 | 1,191.4 | 1,300.3 | 1,260.5 | 1,247.5 | 1,221.0 | 1,258.7 | 1,264.8 | 1,227.3 | 1,046.0 | 1,138.7 | 1,319.4 | 14,696.2 |
| | | | | | | | | | | | | | |
| 9 Total Fuel 5+6+7+8 | 3,958.9 | 3,380.4 | 3,231.7 | 2,864.1 | 2,579.7 | 3,402.4 | 3,832.4 | 3,663.3 | 2,975.6 | 2,875.3 | 2,975.8 | 3,584.4 | 39,324.0 |
| Burnham d Engage | | | | | | | | | | | | | |
| Purchased Energy 10 LT Purchased Energy (Gas) | 256.1 | 151.4 | 94.3 | 143.3 | 154.8 | 235.2 | 345.6 | 350.3 | 255.8 | 158.8 | 126.7 | 222.8 | 2,494.9 |
| 11 LT Purchased Energy (Solar) | 34.0 | 47.5 | 66.1 | 64.8 | 86.6 | 101.5 | 101.6 | 88.7 | 80.3 | 58.6 | 34.2 | 24.0 | 787.9 |
| 12 Community Solar*Gardens | 63.8 | 91.2 | 123.3 | 107.8 | 143.2 | 170.6 | 167.0 | 166.0 | 152.6 | 121.4 | 59.0 | 37.6 | 1,403.5 |
| 13 LT Purchased Energy (Wind) | 567.9 | 584.3 | 594.9 | 668.9 | 496.9 | 455.2 | 391.4 | 384.8 | 466.8 | 589.3 | 691.6 | 578.1 | 6,470.0 |
| 14 LT Purchased Energy (Other) | 152.8 | 102.9 | 164.1 | 134.7 | 215.8 | 226.5 | 217.5 | 235.7 | 225.5 | 214.2 | 167.5 | 162.5 | 2,219.6 |
| 15 Total Purchased Energy 10+11+12+13+14 | 1,074.5 | 977.3 | 1,042.6 | 1,119.5 | 1,097.3 | 1,188.9 | 1,223.1 | 1,225.6 | 1,180.9 | 1,142.2 | 1,079.0 | 1,025.0 | 13,375.9 |
| | | | | | 2,001.10 | | | | | | | | |
| 16 ST Market Purchase | 291.6 | 219.9 | 150.0 | 107.3 | 318.3 | 333.5 | 215.4 | 199.0 | 276.8 | 300.3 | 157.4 | 201.0 | 2,770.6 |
| 17 Asset Based Sales Revenues (Market Sales) | (1,609.9) | (1,284.8) | (1,080.5) | (1,000.5) | (765.4) | (1,194.2) | (1,171.6) | (1,149.3) | (1,035.5) | (1,145.0) | (1,041.5) | (1,242.9) | (13,721.3) |
| 18 Net Market Cost 16+17 | (1,318.3) | (1,064.9) | (930.5) | (893.2) | (447.1) | (860.7) | (956.2) | (950.2) | (758.7) | (844.7) | (884.2) | (1,042.0) | (10,950.7) |
| 19 MISO Cost | | | | | | | | | | | | | |
| 20 Net MISO D2 and ASM Cost 18+19 | (1,318.3) | (1,064.9) | (930.5) | (893.2) | (447.1) | (860.7) | (956.2) | (950.2) | (758.7) | (844.7) | (884.2) | (1,042.0) | (10,950.7) |
| 20 Net Wilso D2 and Asivi Cost 18+19 | (1,310.3) | (1,004.9) | (930.3) | (093.2) | (447.1) | (860.7) | (936.2) | (930.2) | (736.7) | (044.7) | (004.2) | (1,042.0) | (10,930.7) |
| 21 Total System GWh (At Generator) 9+15+20 | 3,715.1 | 3,292.7 | 3,343.9 | 3,090.3 | 3,229.9 | 3,730.6 | 4,099.3 | 3,938.7 | 3,397.9 | 3,172.8 | 3,170.6 | 3,567.4 | 41,749.2 |
| | | | | | | | | | | | | | |
| 22 Less Solar Gardens - Above Market | | | , | | | /· | | | / · | | () | | |
| 23 Less WindSource | (41.2) | (36.1) | (39.4) | (35.1) | (33.8) | (38.5) | (43.4) | (46.7) | (42.5) | (59.2) | (38.3) | (39.1) | (493.3) |
| 24 Less Renewable*Connect | (16.3) | (14.0) | (16.8) | (13.6) | (14.4) | (18.2) | (14.8) | (16.7) | (14.5) | (15.3) | (14.1) | (14.5) | (183.2) |
| 25 Total Costs Direct Assigned 22+23+24 | (57.5) | (50.1) | (56.3) | (48.8) | (48.1) | (56.6) | (58.1) | (63.4) | (56.9) | (74.5) | (52.4) | (53.7) | (676.5) |
| 26 Net System GWh (At Generator) 21+25 | 3,657.6 | 3,242.6 | 3,287.6 | 3,041.6 | 3,181.7 | 3,674.0 | 4,041.2 | 3,875.3 | 3,341.0 | 3,098.3 | 3,118.2 | 3,513.7 | 41,072.7 |
| | -, | -, | -, | -,- | -, | -,- | , | -7 | -,- | -, | -, | -,- | , |

Northern States Power Company (Minnesota) Electric Utility - State of Minnesota Estimated Fuel Related Costs Per MWh (At Generator)

| | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | 2022Total |
|--|----------|----------|----------|------------|-----------|----------|----------|--------------------|----------------|---------------|----------|---|-----------|
| | | | | | | | | | | | | | |
| Own Generation Fossil Fuel | | | | | | | | | | | | | |
| 1 Coal | \$24.44 | \$24.63 | \$24.33 | \$27.64 | \$26.99 | \$22.78 | \$24.64 | \$25.61 | \$26.88 | \$27.02 | \$27.81 | \$28.12 | \$25.50 |
| 2 Wood/RDF | \$8.22 | \$17.37 | \$18.39 | \$14.66 | \$17.38 | \$17.89 | \$20.89 | \$21.87 | \$24.34 | \$27.71 | \$17.57 | \$21.63 | \$19.05 |
| 3 Natural Gas CC | \$40.57 | \$49.39 | \$50.29 | \$56.35 | \$67.79 | \$67.15 | \$53.40 | \$65.32 | \$58.07 | \$48.22 | \$57.70 | \$69.44 | \$56.36 |
| 4 Natural Gas & Oil CT | \$69.75 | \$50.96 | \$163.58 | \$44.52 | \$94.42 | \$89.02 | \$70.64 | \$92.92 | \$122.02 | \$118.79 | \$100.06 | \$80.02 | \$88.10 |
| 5 Subtotal | \$28.23 | \$31.71 | \$32.10 | \$41.77 | \$45.93 | \$36.11 | \$34.60 | \$40.48 | \$44.30 | \$35.45 | \$35.17 | \$35.71 | \$35.81 |
| 6 Hydro | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 7 Wind | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| / Willu | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 8 Nuclear Fuel | \$7.89 | \$7.82 | \$7.87 | \$7.93 | \$8.13 | \$8.20 | \$8.22 | \$8.17 | \$8.10 | \$7.85 | \$7.75 | \$7.73 | \$7.97 |
| 9 Total Fuel | \$15.03 | \$15.02 | \$12.41 | \$10.56 | \$12.73 | \$18.52 | \$20.53 | \$22.88 | \$18.72 | \$14.65 | \$12.66 | \$16.47 | \$16.11 |
| Purchased Energy | | | | | | | | | | | | | |
| 10 LT Purchased Energy (Gas) | \$45.17 | \$42.13 | \$53.36 | \$53.51 | \$67.77 | \$71.23 | \$65.53 | \$72.69 | \$66.85 | \$59.56 | \$62.16 | \$68.06 | \$62.36 |
| 11 LT Purchased Energy (Solar) | \$55.11 | \$62.05 | \$62.85 | \$61.09 | \$62.30 | \$67.24 | \$62.79 | \$62.26 | \$64.22 | \$62.62 | \$52.59 | \$39.70 | \$61.73 |
| 12 Community Solar*Gardens | \$125.66 | \$127.35 | \$126.75 | \$126.54 | \$135.54 | \$134.37 | \$132.68 | \$130.73 | \$131.61 | \$132.72 | \$133.11 | \$129.84 | \$131.12 |
| 13 LT Purchased Energy (Wind) | \$42.15 | \$39.53 | \$38.08 | \$33.37 | \$45.96 | \$38.01 | \$34.32 | \$35.86 | \$37.82 | \$36.71 | \$35.85 | \$36.59 | \$37.81 |
| 14 LT Purchased Energy (Other) | \$84.87 | \$87.67 | \$89.36 | \$78.91 | \$88.56 | \$91.38 | \$88.78 | \$89.45 | \$87.99 | \$64.31 | \$85.62 | \$93.75 | \$85.90 |
| 15 Total Purchased Energy | \$54.31 | \$54.29 | \$59.59 | \$52.00 | \$70.40 | \$71.07 | \$68.62 | \$71.46 | \$67.60 | \$56.60 | \$52.51 | \$55.98 | \$61.57 |
| 16 ST Market Purchase | \$37.01 | \$36.95 | \$69.10 | \$74.17 | \$44.20 | \$52.70 | \$56.38 | \$50.66 | \$98.72 | \$44.11 | \$32.30 | \$49.73 | \$52.98 |
| 17 Asset Based Sales Revenues (Market Sales) | \$34.90 | \$32.05 | \$24.51 | \$28.33 | \$34.70 | \$55.33 | \$59.62 | \$67.31 | \$52.56 | \$30.61 | \$24.36 | \$46.23 | \$41.13 |
| 18 Net Market Cost | \$34.44 | \$31.04 | \$17.32 | \$22.83 | \$27.94 | \$56.35 | \$60.34 | \$70.80 | \$35.71 | \$25.81 | \$22.95 | \$45.56 | \$38.13 |
| AUGO G | | | | | | | | | | | | | |
| 19 MISO Cost 20 Net MISO D2 and ASM Cost | \$16.59 | \$5.34 | (\$4.93) | (\$24.68) | (\$10.07) | \$42.14 | \$44.34 | \$51.33 | \$16.69 | \$2.33 | \$2.43 | \$35.96 | \$16.27 |
| 20 Nectimbe B2 and risin cost | Ų10.55 | ψ3.5 1 | (\$1.55) | (\$2.1.00) | (\$20.07) | ψ12.21 | Ų11.51 | \$51.55 | \$10.03 | ψ <u>1.05</u> | Ų2.10 | - | ψ10.E7 |
| 21 Total System \$/MWh | \$25.84 | \$29.81 | \$31.95 | \$35.75 | \$35.48 | \$29.82 | \$29.32 | \$31.13 | \$36.16 | \$33.03 | \$29.07 | \$22.13 | \$30.63 |
| 22 Less Solar Gardens - Above Market | | | | | | | | | | | | | |
| 23 Less WindSource | \$31.91 | \$64.81 | \$30.14 | \$54.62 | \$37.02 | \$23.50 | \$29.62 | \$33.63 | \$37.47 | \$26.73 | \$49.92 | \$34.05 | \$36.87 |
| 24 Less Renewable* Connect | \$35.38 | \$35.12 | \$35.53 | \$34.89 | \$35.21 | \$22.40 | \$38.84 | \$35.21 | \$35.67 | \$35.52 | \$35.76 | \$34.99 | \$34.33 |
| 25 Total Costs Direct Assigned | \$149.71 | \$182.74 | \$236.58 | \$209.55 | \$267.14 | \$189.74 | \$178.51 | \$143.24 | \$224.67 | \$163.93 | \$180.16 | \$103.74 | \$183.86 |
| 26 Net System \$/MWh | \$23.89 | \$27.44 | \$28.45 | \$32.97 | \$31.98 | \$27.35 | \$27.18 | \$29.29 | \$32.95 | \$29.88 | \$26.53 | \$20.88 | \$28.11 |
| | 7-0.00 | | 7-0:10 | 70-01 | ,,,,,,, | , | * | 7-0 | 70 | 7-0-0-0 | 7 | 7-1100 | 7-7 |

Docket No. E002/AA-21-295 True-up Report Part A, Attachment 7 Page 1 of 4

Redline

FUEL CLAUSE RIDER (Continued)

Section No. 5 25th26th Revised Sheet No. 91.1

FUEL COST FACTORS (2023)

| Commercial | ጼ | Industrial |
|------------|---|------------|
|------------|---|------------|

| Month | Residential | Non-Demand | Non-TOD | Demand On-Peak | Off-Peak | Outdoor Lighting |
|-----------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| January | \$0.03316 | \$0.03358 | \$0.03254 | \$0.04066 | \$0.02663 | \$0.02601 |
| February | \$0.03615 | \$0.03661 | \$0.03546 | \$0.04435 | \$0.02901 | \$0.02833 |
| March | \$0.04273 | \$0.04327 | \$0.04193 | \$0.05243 | \$0.03429 | \$0.03349 |
| April | \$0.04761 | \$0.04822 | \$0.04671 | \$0.05839 | \$0.03823 | \$0.03734 |
| May | \$0.04881 | \$0.04942 | \$0.04788 | \$0.05986 | \$0.03919 | \$0.03827 |
| June | \$0.05107 | \$0.05172 | \$0.05011 | \$0.06266 | \$0.04100 | \$0.04004 |
| July | \$0.04561 | \$0.04618 | \$0.04474 | \$0.05595 | \$0.03659 | \$0.03574 |
| August | \$0.04547 | \$0.04604 | \$0.04461 | \$0.05580 | \$0.03648 | \$0.03563 |
| September | \$0. 04175 <u>04008</u> | \$0. 04227 <u>04058</u> | \$0. 04095 <u>03931</u> | \$0. 05121 <u>04916</u> | \$0. 03351 <u>03217</u> | \$0. 03273 <u>03142</u> |
| October | \$0.03881 | \$0.03930 | \$0.03808 | \$0.04761 | \$0.03115 | \$0.03043 |
| November | \$0.03580 | \$0.03625 | \$0.03512 | \$0.04392 | \$0.02873 | \$0.02806 |
| December | \$0.03303 | \$0.03345 | \$0.03241 | \$0.04051 | \$0.02652 | \$0.02591 |

Commercial & Industrial General TOU Service Pilot Program

| MΛ | nth |
|------|-----|
| IVIO | ' |

| Peak | Base | Off-Peak |
|-----------------------------|---|---|
| \$0.04109 | \$0.03489 | \$0.01823 |
| \$0.04482 | \$0.03803 | \$0.01982 |
| \$0.05298 | \$0.04497 | \$0.02343 |
| \$0.05901 | \$0.05010 | \$0.02616 |
| \$0.06048 | \$0.05135 | \$0.02681 |
| \$0.06331 | \$0.05374 | \$0.02803 |
| \$0.05653 | \$0.04798 | \$0.02501 |
| \$0.05638 | \$0.04785 | \$0.02491 |
| \$0. 05174 04967 | \$0. 04392 04216 | \$0. 02291 02199 |
| \$0.04811 | \$0.04084 | \$0.02129 |
| \$0.04438 | \$0.03767 | \$0.01963 |
| \$0.04093 | \$0.03475 | \$0.01815 |
| | \$0.04109 \$0.04482 \$0.05298 \$0.05901 \$0.06048 \$0.06331 \$0.05653 \$0.05638 \$0.05638 | \$0.04109 \$0.03489 \$0.04482 \$0.03803 \$0.05298 \$0.04497 \$0.05901 \$0.05010 \$0.06048 \$0.05135 \$0.06331 \$0.05374 \$0.05653 \$0.04798 \$0.05638 \$0.04785 \$0.0517404967 \$0.0439204216 \$0.04811 \$0.04084 \$0.04438 \$0.03767 |

CURRENT PERIOD COST OF ENERGY

The Current Period Cost of Energy per kWh is defined as the qualifying costs, forecasted to be incurred during the calendar month, divided by the kWh sales forecasted for the same month. Qualifying kWh sales are all kWh sales excluding intersystem, Renewable*Connect, Renewable*Connect Government and Windsource® Program kWh sales. Qualifying costs are the sum of the following:

(Continued on Sheet No. 5-91.2)

Date Filed: 05-13-2203-01-23 By: Christopher B. Clark Effective Date: 02-01-23

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/M 20 86AA-21- Order Date: 02 01 23

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Docket No. E002/AA-21-295 True-up Report Part A, Attachment 7 Page 3 of 4

Final

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

FUEL CLAUSE RIDER (Continued)

\$0.03881

\$0.03580

\$0.03303

\$0.03930

\$0.03625

\$0.03345

Section No. 5 26th Revised Sheet No. 91.1

\$0.03115

\$0.02873

\$0.02652

\$0.03043

\$0.02806

\$0.02591

FUEL COST FACTORS (2023)

Month

January February

March

April

May

June

July

August September

October

November

December

| Commercial & Industrial | | | | | | |
|-------------------------|------------|-----------|-------------------|-----------|---------------------|---|
| Residential | Non-Demand | Non-TOD | Demand On-Peak | Off-Peak | Outdoor Lighting | |
| \$0.03316 | \$0.03358 | \$0.03254 | \$0.04066 | \$0.02663 | \$0.02601 | |
| \$0.03615 | \$0.03661 | \$0.03546 | \$0.04435 | \$0.02901 | \$0.02833 | |
| \$0.04273 | \$0.04327 | \$0.04193 | \$0.05243 | \$0.03429 | \$0.03349 | |
| \$0.04761 | \$0.04822 | \$0.04671 | \$0.05839 | \$0.03823 | \$0.03734 | |
| \$0.04881 | \$0.04942 | \$0.04788 | \$0.05986 | \$0.03919 | \$0.03827 | |
| \$0.05107 | \$0.05172 | \$0.05011 | \$0.06266 | \$0.04100 | \$0.04004 | |
| \$0.04561 | \$0.04618 | \$0.04474 | \$0.05595 | \$0.03659 | \$0.03574 | |
| \$0.04547 | \$0.04604 | \$0.04461 | \$0.05580 | \$0.03648 | \$0.03563 | |
| \$0.04008 | \$0.04058 | \$0.03931 | \$0.04916 | \$0.03217 | \$0.03142 | R |

Commercial & Industrial General TOU Service Pilot Program

\$0.04761

\$0.04392

\$0.04051

| Month | | | | |
|-----------|-----------|-----------|-----------|---|
| | Peak | Base | Off-Peak | |
| January | \$0.04109 | \$0.03489 | \$0.01823 | |
| February | \$0.04482 | \$0.03803 | \$0.01982 | |
| March | \$0.05298 | \$0.04497 | \$0.02343 | |
| April | \$0.05901 | \$0.05010 | \$0.02616 | |
| May | \$0.06048 | \$0.05135 | \$0.02681 | |
| June | \$0.06331 | \$0.05374 | \$0.02803 | |
| July | \$0.05653 | \$0.04798 | \$0.02501 | |
| August | \$0.05638 | \$0.04785 | \$0.02491 | |
| September | \$0.04967 | \$0.04216 | \$0.02199 | R |
| October | \$0.04811 | \$0.04084 | \$0.02129 | |
| November | \$0.04438 | \$0.03767 | \$0.01963 | |
| December | \$0.04093 | \$0.03475 | \$0.01815 | |

\$0.03808

\$0.03512

\$0.03241

CURRENT PERIOD COST OF ENERGY

The Current Period Cost of Energy per kWh is defined as the qualifying costs, forecasted to be incurred during the calendar month, divided by the kWh sales forecasted for the same month. Qualifying kWh sales are all kWh sales excluding intersystem, Renewable*Connect, Renewable*Connect Government and Windsource® Program kWh sales. Qualifying costs are the sum of the following:

(Continued on Sheet No. 5-91.2)

| Date Filed: | 03-01-23 | By: Christopher B. Clark | Effective Date: |
|-------------|----------------|---|-----------------|
| | President, No | orthern States Power Company, a Minnesota | corporation |
| Docket No. | E002/AA-21-295 | | Order Date: |

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous MISO Reporting Requirements Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 1 Page 1 of 13

Miscellaneous MISO Reporting Requirements

The Commission has required a variety of reporting related to MISO Day 1, Day 2, Day 3, and the Ancillary Services Market (ASM) in a variety of dockets. These reporting items are provided below.

A. Monthly MISO Charge Details

In compliance with the Commission's February 6, 2008 Order in Docket No. E,G999/AA-06-1208 (the 2006 AAA Report docket) and the April 24, 2006 Settlement Agreement in the Company's 2006 Electric Rate Case (Docket No. E002/GR-05-1428, Exhibit 46), Part B, Attachments 2-11 provide monthly MISO charge details for the 2022 reporting period.¹

B. MISO ASM

The Commission's August 23, 2010 Order in Docket No. E002/M-08-528 requires utilities to report on costs and revenues from their participation in the MISO ancillary services market and to report all negative benefits (costs) of participation in the MISO ancillary services market.

1. Overall Market Performance to Date

During the 2022 AAA Period, MISO continued to operate the electric system reliably and has exceeded compliance thresholds for all North American Electric Reliability Corporation (NERC) reliability standards to which they are subject. The MISO Independent Market Monitor (IMM), which is tasked with monitoring both the behavior of Market Participants and the operation of the market, stated the following:

The MISO markets performed competitively throughout the year, with infrequent market power mitigation and competitive conduct overall. Energy prices rose 65 percent in the first quarter, largely because gas prices were 50 percent higher than the previous winter, even after removing the impact of the Winter Storm Uri event in February 2021. Energy prices more than doubled in the second quarter, largely

¹ The reporting formats are provided in compliance with the Commission's June 12, 2019 Order in Docket No. E002/CI-03-802. See Attachment 3 of the March 1, 2019 Joint Comments in that docket which details the agreed upon disposition of AAA reporting items.

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous MISO Reporting Requirements Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 1 Page 2 of 13

because gas prices increased around 140 percent over the previous spring in the Midwest and South. Coal supply limitations became more pronounced later in the quarter, as resources employed conservation measures in preparation for the peak summer months. MISO's Planning Resource Auction cleared at Cost of New Entry (CONE) in the Midwest as the region was short of capacity by 1.2 GW. Congestion roughly doubled in the spring year over year, with the value of real-time congestion exceeding one billion dollars during the quarter. Wind output continued to be a primary cause of MISO's congestion, contributing to more than \$500 million of congestion during the quarter. On average, wind output was curtailed almost 10 percent over the second quarter.

The summer saw energy prices more than double once again from the previous year, and MISO experienced several intervals of shortage pricing during the quarter. Gas prices were volatile, with Henry Hub averaging \$7.87 per MMBTU and fluctuating between a high of \$9.85 in August and a low of \$5.62 in July. A mid-June heat dome across the footprint drove high cooling demand. Coal resources continued to be very economic based on coal prices relative to natural gas prices, but ongoing supply challenges lowered output. Day-ahead and real-time congestion costs doubled over the previous summer – the value of real-time congestion exceeded three quarters of a billion dollars. Much of the congestion occurred in mid to late June when MISO experienced high temperatures and associated load.

Finally, in the Fall energy prices rose much more moderately, at 13 percent year over year, consistent with gas prices that rose 14 and 22 percent at the Chicago Citygate and Henry Hub, respectively. Energy prices were 34 percent lower than the summer quarter because of falling gas prices, lower load, and a reduction in coal conservation measures. The amount of coal capacity conserving coal fell from more than 18 GW at the beginning of the quarter to 8 GW by December 1. Day-ahead and real-time congestion fell 15 and 18 percent, respectively. Transmission upgrades completed over the summer doubled the capacity on a key constraint that had generated substantial congestion in the fall of 2021.²

2. Estimated Market Benefits

The comparison of NSP's participation in the MISO ASM market to an alternative

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² MISO Independent Market Monitor (misoenergy.org)

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous MISO Reporting Requirements Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 1 Page 3 of 13

scenario where NSP must self supply ancillary services will always result in benefits to NSP and its ratepayers. Ancillary services are always supplied by the most economical set of resources within MISO, including periods where NSP sells excess to the market. The alternative for NSP is to self-supply ancillary services from a restricted number of NSP resources and never sell excess to the market. The results of the ASM benefit analysis continue to show an overall benefit for the 2022 AAA reporting period and are provided in the following table.

| | | | ASM | Other Market | ASM | |
|---------|-------------|---------------|---------|-----------------|--------|-----------|
| | ASM Market | Self Schedule | Market | Charge | Admin | Net |
| | Run Cost | Run Cost | Savings | Types | Fees | Savings |
| Jan '22 | 77,356,540 | 77,486,400 | 129,860 | 52,571 | 27,812 | 49,477 |
| Feb '22 | 58,110,900 | 58,268,560 | 157,660 | 39,297 | 14,854 | 103,509 |
| Mar '22 | 43,306,440 | 43,800,260 | 493,820 | 22,012 | 21,416 | 450,392 |
| Apr '22 | 40,443,820 | 41,002,060 | 558,240 | 22,294 | 18,292 | 517,654 |
| May '22 | 49,860,970 | 50,796,840 | 935,870 | 6,469 | 16,400 | 913,001 |
| Jun '22 | 90,177,230 | 90,502,670 | 325,440 | 74,539 | 22,506 | 228,395 |
| Jul '22 | 106,329,800 | 106,471,170 | 141,370 | 397,438 | 29,323 | (285,391) |
| Aug '22 | 116,382,290 | 116,539,350 | 157,060 | 103,485 | 27,525 | 26,051 |
| Sep '22 | 76,920,620 | 77,318,260 | 397,640 | 65,661 | 23,497 | 308,482 |
| Oct '22 | 51,797,130 | 52,326,050 | 528,920 | 54,811 | 17,376 | 456,733 |
| Nov '22 | 43,457,320 | 43,976,780 | 519,460 | 19,017 | 19,479 | 480,964 |
| Dec '22 | 68,209,730 | 68,675,090 | 465,360 | 283,062 | 20,771 | 161,527 |

The Company estimates the ASM resulted in total NSP System savings of approximately \$3.41 million for the 2022 reporting period. Part B, Attachment 12 provides the ASM daily activity and net savings. The Minnesota jurisdictional allocation of the savings is approximately 75 percent, or \$2.55 million. This is the savings associated with optimizing the generation units that are carrying ancillary services across the entire MISO footprint, and does not include any additional benefits that have accrued to ratepayers from reducing the regional regulation reserve requirement.

3. Excessive Deficient Energy Deployment Charges

The Excessive Deficient Energy Deployment Charge (EDEDC) amount represents the charge to a generator that was not able to maintain actual generator output to within a tolerance band around the set point. During the hours where a generator was

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous MISO Reporting Requirements Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 1 Page 4 of 13

unable to meet this requirement, MISO assesses a charge equal to any day ahead or real time payments to the generator for carrying regulation reserve plus the generator's pro rata share of costs to procure regulation from all resources within MISO. Part B, Attachment 13 shows the EDEDCs assessed to each NSP System resource by month during the reporting period.

A certain level of EDEDCs is unavoidable given the current design of the ASM market. Currently for each generator, the Company can only submit a single ramp rate value that represents the average rate at which the generator can increase or decrease output across its entire dispatchable range. For a typical coal unit, the ramp rate varies significantly as the unit moves from minimum load to full load. For example, a coal generator with a minimum capability of 200 MWs and a maximum capability of 400 MWs might be able to operate to 300 MWs with one coal pulverizer in operation, while a generator with a capability between 300 MWs and 400 MWs would require two coal pulverizers to be in operation. The unit might be able to ramp at a rate of 10 MWs/min up to 300 MWs, then slow to 3 MWs/min while the second pulverizer is starting, and then ramp at 5 MWs/min up to 400 MWs. The Company could offer only 3 MWs/min of ramp capability to MISO for dispatch, which would ensure that the unit would be able to follow its dispatch instruction close to 100% of the time, but would drastically under-represent the capability of the unit over most of its dispatchable range.

Offers with low ramp rates mean that the unit will not be able to clear for as much regulation reserve or spinning reserve, and therefore will not be available to fully hedge the Company's cost to procure these services. Low ramp rates also limit the unit's ability to respond to increasing or decreasing LMP prices, which ultimately leads to higher purchase power costs in the market. A more prudent strategy would be to offer 5 or 6 MWs/min of ramp capability for the entire range to strike an appropriate balance between incurring penalties during the limited intervals that the unit would not be able to "keep up," and ensuring the unit can provide sufficient quantities of ancillary and load following services to hedge exposure to market prices.

The ASM benefit calculation is a measure of the extent to which the Company has struck the *appropriate balance* between too much or too little flexibility being offered to MISO. For the 2022 AAA reporting period, the net benefit for the Company was

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous MISO Reporting Requirements Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 1 Page 5 of 13

approximately \$2.55 million³ while the amount incurred in EDEDCs was \$0.71 million. The \$3.41 million in gross benefits would not have been achievable if the Company had been offering ramp rates for its units that would have all but eliminated the chance of incurring an Excessive Deficient Energy charge.

To minimize the incurrence of excessive charges, generation unit performance to MISO setpoints is monitored in real time by the system dispatcher to ensure that plants are keeping up with offered ramp rates. Computer displays show the dispatcher a graphical depiction of actual unit output compared to setpoint along with calculations of the deviation. The system analyst and system dispatcher communicate with the plants daily to discuss operational issues affecting unit performance and adjust offers to MISO accordingly. This iterative process helps ensure that these charges are, to the extent possible, minimized while still creating opportunities for lower overall costs for ratepayers. For these reasons, a certain level of Excessive Deficient Energy Deployment Charges is expected, and prudent, in light of the overwhelming benefits associated with high unit flexibility that more than offset these charges.

4. Contingency Reserve Deployment Failure Charges

The Contingency Reserve Deployment Failure Charge (CRDFC) represents the charge incurred by generation or demand response resources that fail to deploy contingency reserves at or above the contingency reserve deployment instruction. This charge is assessed if a unit that is selected to provide spinning or supplemental reserves during a specific hour does not perform and MISO must then deploy another resource.

Part B, Attachment 14 shows NSP incurred a total of \$298,238 in CRDFC during the 2022 AAA reporting period. NSP carries reserves on units with Automatic Generation Control (AGC) and units without AGC. For units without AGC, a phone call to the facility is required to deploy the reserves, adding to the time from receiving the signal and deployment. When deploying a large amount of reserves on many facilities, that action requires many more steps and time becomes critical.

³ The \$2.55 million in ASM benefits calculated by the Company for 2022 does not include all the savings made possible by offering high flexibility to MISO. In addition to the ASM related benefits, increased ramp rates and flexibility minimizes overall price volatility in the market, increases the ability to integrate intermittent resources such as wind, and limits uneconomic market purchases or sales.

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Additionally, MISO must meet Disturbance Control Standards within 15 minutes but does not always provide market participants the remaining time between the deployment signal and the end of the 15-minute timeframe to deploy reserves. Instead, MISO holds participants to a 10-minute response regardless if MISO has 15 minutes to meet the standard or less than 10 minutes.

The charges were not the result of any improper action by the Company, but simply reflect the fact that generating units are sometimes not able to deliver every requested MW. The Company attempts to minimize these occurrences, as evidenced by the limited charges incurred over the reporting period. Had a similar situation occurred before the start of ASM, the Company would have been required to deploy reserves from another generator in its fleet and would have incurred increased energy costs that were recovered in the FCA. Thus, it is reasonable for the Company to recover these minor charges from MISO.

The Company tests all resources capable of providing supplemental reserve response every two months to validate capability and readiness if called on by MISO during a contingency. If a resource fails to perform during a test, plant management will address the issue with any required maintenance to return the unit to reliable service. The offer to MISO for the unit to provide reserves will be adjusted accordingly to ensure the capabilities of the unit are not overstated during this time.

In short, CRDFCs are prudently incurred for the same reasons described above regarding Excessive Deficient Energy Deployment charges. Generators are complicated mechanical machines whose performance varies based on many conditions. The benefits of making these units available to provide significant amounts of spinning and supplemental reserves to hedge the Company's cost to procure ancillary services more than offsets the cost of the extremely infrequent circumstances where the unit may not be able to provide 100% of the amount required. Also, Xcel Energy is working to modify the rules which evaluate failure to deploy so that this charge is only applied when a unit fails compared to its offered physical capability.

5. Conclusion

The analysis performed by the Company and described above captures only the benefit associated with a more optimal assignment of reserves in the MISO footprint;

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i.e., freeing up low-cost generation resources to provide energy while carrying reserves on higher cost resources. When combined with the benefits estimated by MISO of a decreasing regulation requirement, the Ancillary Services Market has helped to reduce ratepayer fuel costs significantly during the reporting period.

C. Schedule 10 Administrative Charge Paid to MISO Under MISO Tariff

The Commission's May 9, 2002 Order in Docket Nos. E002/M-00-257, et al. and August 16, 2013 Order in Docket No. E999/AA-11-792 require the Company to provide the Schedule 10 Administrative Charges Paid to MISO Under the MISO Tariff, including the allocation factor used and support for why the allocator is reasonable.

Schedule 10 Administrative Charges Paid to MISO Under MISO Tariff Calendar Year 2022

| Period* | Invoiced Amount (NSP System) | Juris Trans Alloc | Interchange Alloc | urisdiction Interchange |
|-----------|------------------------------|----------------------|----------------------|----------------------------|
| January | 1,132,191.14 | 87.2980% | 83.6779% | \$ 827,055.81 |
| February | 867,661.20 | 87.2980% | 83.6779% | \$ 633,818.99 |
| March | 1,235,340.25 | 87.2980% | 83.6779% | \$ 902,405.34 |
| April | 1,182,118.64 | 87.2980% | 83.6779% | \$ 863,527.42 |
| May | 1,125,451.86 | 87.2980% | 83.6779% | \$ 822,132.83 |
| June | 1,388,634.32 | 87.2980% | 83.6779% | \$ 1,014,385.33 |
| July | 1,296,352.09 | 87.2980% | 83.6779% | \$ 946,973.96 |
| August | 1,336,371.00 | 87.2980% | 83.6779% | \$ 976,207.43 |
| September | 832,416.86 | 87.2980% | 83.6779% | \$ 608,073.30 |
| October | 865,523.12 | 87.2980% | 83.6779% | \$ 632,257.14 |
| November | 942,896.07 | 87.2980% | 83.6779% | \$ 688,777.41 |
| December | 979,835.00 | 87.2980% | 83.6779% | \$ 715,760.97 |
| Total | \$13,184,791.55 | | | \$ 9,631,375.93 |

^{*}The month shown is the MISO billing month. For the Company, these costs are recorded in the Company's books and records the following month. The demand allocators are shown are preliminary at the time of this filing.

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For comparison purposes, we also provide the data for calendar year 2021, below.

Schedule 10 Administrative Charges Paid to MISO Under MISO Tariff 2021 AAA Period

| | | 21 11111 1 1110 | | | | |
|-----------|------------------------------|----------------------|----------------------|---------------------------------------|--|--|
| Period* | Invoiced Amount (NSP System) | Juris Trans Alloc | Interchange Alloc | MN Jurisdiction Net of Interchange | | |
| January | \$ 978,970.85 | 86.9632% | 83.6786% | \$ 712,393.06 | | |
| February | \$ 877,945.09 | 86.9632% | 83.6786% | \$ 638,877.03 | | |
| March | \$ 1,041,223.26 | 86.9632% | 83.6786% | \$ 757,693.88 | | |
| April | \$ 963,635.84 | 86.9632% | 83.6786% | \$ 701,233.83 | | |
| May | \$ 1,120,017.08 | 86.9632% | 83.6786% | \$ 815,031.82 | | |
| June | \$ 1,356,719.97 | 86.9632% | 83.6786% | \$ 987,279.54 | | |
| July | \$ 1,066,565.26 | 86.9632% | 83.6786% | \$ 776,135.15 | | |
| August | \$ 1,254,029.07 | 86.9632% | 83.6786% | \$ 912,551.79 | | |
| September | \$ 1,169,610.12 | 86.9632% | 83.6786% | \$ 851,120.47 | | |
| October | \$ 1,195,345.57 | 86.9632% | 83.6786% | \$ 869,848.05 | | |
| November | \$ 905,693.14 | 86.9632% | 83.6786% | \$ 659,069.17 | | |
| December | \$ 1,247,487.85 | 86.9632% | 83.6786% | \$ 907,791.77 | | |
| Total | \$ 13,177,243.10 | | | \$ 9,589,025.55 | | |

^{*}The month shown is the MISO billing month. For the Company, these costs are recorded in the Company's books and records the following month. The demand allocators are shown for the month when Schedule 10 costs are recorded on the Company's books and records.

The charges shown are the totals billed to the integrated system of the Company (NSP-Minnesota) and Northern States Power Company, a Wisconsin corporation (NSP-Wisconsin) (collectively, the NSP System).

MISO Schedule 10 charges are recorded to FERC Accounts based on instructions from MISO in their letter dated May 12, 2006. As indicated in their instructions, Schedule 10 costs are allocated to the following accounts:

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| Percent | FERC Class | FERC | FERC Account Description |
|---------|-----------------|---------|--|
| | | Account | |
| 90.4% | Transmission | 561.4 | Scheduling, System Control and Dispatch Services |
| 6.5% | Transmission | 561.8 | Reliability Planning and Standards Development Services |
| 3.1% | Regional Market | 575.7 | Market Facilities, Monitoring and Compliance Services |

The Company allocates costs recorded in these accounts between the NSP-Minnesota and NSP-Wisconsin Companies, as well as to NSP-Minnesota jurisdictions (Minnesota, North Dakota and South Dakota), based on a demand allocator. The Interchange Agreement demand allocator (36 month coincident peak demand) decreased the NSP System allocation to the Company effective January 1, 2022, pursuant to the annual update to the Interchange Agreement allocation factors accepted by FERC in Docket No. ER22-1234-000, letter order dated May 3, 2022.

The State of Minnesota jurisdictional demand allocator (12 month coincident peak demand) increased effective January 1, 2022 based on State of Minnesota demands. The net impact of the decrease in the 2022 Interchange Agreement demand allocator and the increase in the 2022 State of Minnesota jurisdictional demand allocator is an increase in the 2022 NSP System allocation to the Minnesota jurisdiction.

The August 16, 2013 Order in Docket No. E999/AA-11-792 also requires utilities to provide information to support increases in MISO Schedule 10 costs of five percent or higher over the prior year's costs, including an explanation of benefits received by customers for these added costs. The MISO Schedule 10 administrative charges increased \$7,548 or approximately 0.06 percent from 2021 to 2022.

D. Congestion Costs

The August 16, 2013 Order in Docket No. E999/AA-11-792 also requires that utilities provide data relating to congested paths, including related costs and revenues. We provide the requested analysis and discussion below.

The ten generation-load paths with the highest congestion costs, determined using a load allocation method as NSP bids in at multiple load nodes, are as follows:

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous MISO Reporting Requirements Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 1 Page 10 of 13

| Generation Node | Load Node | Total Congestion Cost | | | | | |
|----------------------|-----------|-----------------------|--|--|--|--|--|
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| PROTECTED DATA ENDS] | | | | | | | |

NSP's FTR portfolio for these Generation-Load Node pairs (in MW) during the reporting period was:

| Generation Node | Load Node | Winter | 2021-22 | | | |
|------------------------|---------------------|--------|----------|--|--|--|
| [PROTECTED DATA BEGINS | | Peak | Off Peak | | | |
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| | PROTECTED DATA ENDS | | | | | |

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| Generation Node | Load Node | Sprin | g 2022 | | |
|------------------------|-----------|-------|----------|--|--|
| [PROTECTED DATA BEGINS | | Peak | Off Peak | | |
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| PROTECTED DATA ENDS] | | | | | |

| Generation Node | Load Node | Summer 2022 | | |
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| [PROTECTED DATA BEGINS | A BEGINS Peak Off Peak | | | |
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| PROTECTED DATA ENDS | | | | |

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| Generation Node | Load Node | Fall 2022 | | |
|------------------------|-----------|---------------|--|--|
| [PROTECTED DATA BEGINS | • | Peak Off Peak | | |
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| PROTECTED DATA ENDS | | | | |

| Generation Node | Load Node | Winter 2022-23 | | |
|------------------------|-----------|----------------|----------|--|
| [PROTECTED DATA BEGINS | | Peak | Off Peak | |
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| PROTECTED DATA ENDS | | | | |

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous MISO Reporting Requirements Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 1 Page 13 of 13

The Company uses FTRs as a hedging mechanism to manage the risk of congestion charges that may arise from the use of the transmission system in the Day-Ahead market. In order to minimize our customers' exposure to congestion costs, the Company nominates in the Stage 1a step of the FTR Auction [PROTECTED DATA BEGINS

PROTECTED DATA ENDS]. Through this nomination approach, the Company minimizes risk to net congestion costs for its most critical generation units.

During the Stage 1b step of the FTR auction, NSP nominates [PROTECTED DATA BEGINS

PROTECTED DATA ENDS]. This approach has resulted in offsetting some congestion costs with FTR revenues but cannot completely offset congestion due to the limited amount of FTR that MISO makes available to NSP, and thus does not fully cover the installed generator capacity to load node paths.

Below are the FTR Revenues, Congestion Expense, and the Net Revenue/ (Cost) of each of the ten Generation-Load Pairs identified in the tables above.

| Award Node | Load Location | FTR Revenue | Congestion Cost | Net Revenue/(Cost) | | | | | |
|----------------------|------------------|----------------|--------------------|-----------------------|--|--|--|--|--|
| [PROTECTED DATA BE | GINS | | | | | | | | |
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| PROTECTED DATA ENDS] | | | | | | | | | |

Docket No. E002/AA-21-295

Northern States Power Company MISO DAY 2 MARKET SETTLEMENT BY CATEGORIES

True-up Report Part B, Attachment 2 Page 1 of 13

| | | _ | | | | | | | Page 1 of 13 |
|------------|---|----------|---------------------------------|----|---------------|----------|--------------------------------|----------|-------------------------------|
| | | | System | | Intersystem | | System Retail | Mi | nnesota Retail |
| Б | January 2022 | A | ctual | | | | | | |
| 0, | and Loss Charges | 0 | (44.617.249.20) | | 52 205 050 72 | 0 | 7 500 510 42 | e | E 210 27E 20 |
| 1 a 1 c | Day-Ahead Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component | ş | (44,617,348.30) 7,465,464.77 | | 32,203,636.72 | \$ \$ | 7,588,510.42 7,465,464.77 | \$ \$ | 5,310,365.30 5,224,259.16 |
| 3 | Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | (128,510.23) | | - | \$ | (128,510.23) | \$ | (89,930.20) |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | (5,042,710.80) | | _ | \$ | (5,042,710.80) | \$ | (3,528,839.65) |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | 152,700.47 | | _ | \$ | 152,700.47 | \$ | 106,858.29 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | (9,476.71) | | - | \$ | (9,476.71) | \$ | (6,631.71 |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | - ' | \$ | | \$ | - | s | - |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | (1,604,927.45) | \$ | 3,597,158.76 | \$ | 1,992,231.31 | \$ | 1,394,143.97 |
| 13 с | Real-Time Asset Energy Amount - Loss Component | \$ | 57,368.78 | \$ | - | \$ | 57,368.78 | \$ | 40,146.11 |
| 14 | Real-Time Distribution of Losses Amount | \$ | (2,111,968.97) | \$ | - | \$ | (2,111,968.97) | \$ | (1,477,935.21 |
| 16 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | (0.75) | \$ | - | \$ | (0.75) | \$ | (0.52 |
| 18 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | 0.75 | \$ | - | \$ | 0.75 | \$ | 0.52 |
| 21 | Real-time Net inadvertent Distribution | \$ | (50,816.62) | \$ | - | \$ | (50,816.62) | \$ | (35,560.97 |
| 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | 195,930.87 | \$ | - | \$ | 195,930.87 | \$ | 137,110.50 |
| 22 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | (97.25) | \$ | - | \$ | (97.25) | \$ | (68.05 |
| Conges | tion Related Charges | | | | | | | | |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 25,103,200.42 | \$ | - | \$ | 25,103,200.42 | \$ | 17,566,973.89 |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | (70,510.32) | \$ | - | \$ | (70,510.32) | \$ | (49,342.43 |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | 1,428,122.54 | | - | \$ | 1,428,122.54 | \$ | 999,386.17 |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | (101,126.93) | | - | \$ | (101,126.93) | \$ | (70,767.64 |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | - |
| 13 b | Real-Time Asset Energy Amount - Congestion Component | \$ | (276,479.99) | | - | \$ | (276,479.99) | \$ | (193,477.99 |
| 15 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | 52.48 | | - | \$ | 52.48 | \$ | 36.72 |
| 17 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | (52.48) | | - | \$ | (52.48) | \$ | (36.72 |
| 22 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | 396.17 | \$ | | \$ | 396.17 | \$ | 277.24 |
| | elated Charges | | /F 274 040 10\ | | | | /F 274 040 10) | e | (2.7(1.22(.02 |
| 28 30 | Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount | \$ \$ | (5,374,949.19) (303,409.00) | | - | \$ \$ | (5,374,949.19) (303,409.00) | \$ \$ | (3,761,336.82 |
| 31 | Financial Transmission Rights Transaction Amount | \$ | (303,409.00) | \$ | - | \$ | (303,409.00) | \$ | (212,322.0. |
| 32 | Financial Transmission Rights Yearly Allocation Amount | \$ | (1,632,060.78) | | | \$ | (1,632,060.78) | \$ | (1,142,100.16 |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | 1,658,342.83 | | | \$ | 1,658,342.83 | \$ | 1,160,492.08 |
| 37 | Financial Transmission Guarantee Uplift Amount | \$ | (1,508,569.95) | | _ | \$ | (1,508,569.95) | \$ | (1,055,682.48 |
| 38 | Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | _ | \$ | - | \$ | - |
| Uplift (| RNU) Charges | i | | | | Ė | | | |
| 23 | Real-Time Revenue Neutrality Uplift Amount | \$ | 501,103.70 | \$ | - | \$ | 501,103.70 | \$ | 350,667.46 |
| Revenu | e Sufficiency Guarantee (RSG) Charges | | | | | | | | |
| 10 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | 126,443.72 | \$ | - | \$ | 126,443.72 | \$ | 88,484.08 |
| 11 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | (150,157.83) | \$ | 75,353.66 | \$ | (74,804.17) | \$ | (52,347.23 |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | 600,163.19 | \$ | - | \$ | 600,163.19 | \$ | 419,988.32 |
| 25 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | (601,631.91) | \$ | 220,936.22 | \$ | (380,695.69) | \$ | (266,407.12 |
| 43 | Real Time Price Volatility Make Whole Payment | \$ | (118,371.51) | \$ | 28,887.25 | \$ | (89,484.26) | \$ | (62,620.21 |
| Market | Administration Charges | | | | | | | | |
| 4 | Day-Ahead Market Administration Amount | \$ | 711,062.64 | \$ | (116,814.02) | \$ | 594,248.62 | \$ | 415,849.37 |
| 19 | Real-Time Market Administration Amount | \$ | 85,287.01 | \$ | (11,380.35) | \$ | 73,906.66 | \$ | 51,719.16 |
| 29 | Financial Transmission Rights Market Administration Amount | \$ | 37,165.31 | \$ | - | \$ | 37,165.31 | \$ | 26,007.92 |
| 33 | Day-Ahead Schedule 24 Allocation Amount | \$ | 110,058.67 | | (17,995.39) | \$ | 92,063.28 | \$ | 64,424.98 |
| 34 | Real -Time Schedule 24 Allocation Amount | \$ | (97,747.55) | | 101,423.50 | \$ | 3,675.95 | \$ | 2,572.39 |
| 35 | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | - |
| | Energy Charges | | | | | | | | |
| 12 | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 27 | Real-Time Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| | AISO Charges | | (20, 200, 00) | | 07.547.77 | | 66 220 06 | | 46.252.24 |
| 20 | Real-Time Miscellaneous Amount | \$ | | | 86,547.66 | | 66,238.86 | \$ | 46,353.31 |
| 26 | Real-Time Uninstructed Deviation Amount | \$ | - | \$ | | \$ | - | \$ | - |
| | Revenue Rights (ARR) | | (400 7((22 | 0 | | 0 | (400.7((22 | e | 4 405 401 70 |
| 39 40 | Auction Revenue Rights - FTR Auction Transactions Auction Revenue Rights - Monthly ARR Revenue | \$ \$ | 6,409,766.32 (6,456,472.05) | | 20,146.47 | \$ \$ | 6,409,766.32 (6,436,325.58) | \$ \$ | 4,485,491.72 (4,504,077.63 |
| 41 | Auction Revenue Rights - Monthly ARR Revenue Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (235,898.25) | | 20,140.47 | ş Ş | (235,898.25) | \$ | (165,079.29 |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | 76,750.07 | | | \$ | 76,750.07 | \$ | 53,708.95 |
| 72 | Addion Revenue Rights - Hondiny Intensible Artic Revenue | Ŷ | 70,730.07 | , | | Ÿ | 70,750.07 | Ÿ | 33,700.7. |
| | TOTAL MISO CHARGES | \$ | (25,794,222.91) | \$ | 56,190,122.48 | \$ | 30,395,899.57 | \$ | 21,270,752.94 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 705,320.59 | \$ | 493,576.44 |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 95,739.23 | \$ | 66,997.38 |
| | | | | | | | | | |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | IL) | | | | \$ | 29,594,839.75 | \$ | 20,710,179.12 |

Docket No. E002/AA-21-295

Northern States Power Company MISO DAY 2 MARKET SETTLEMENT BY CATEGORIES

True-up Report Part B, Attachment 2
Page 2 of 13

| | | _ | | | 1 | | | | Page 2 of 1. |
|----------------|--|--------|-----------------|----|---------------|----|----------------|-----|----------------|
| | February 2022 | Δ. | System | | Intersystem | 9 | System Retail | Mi | nnesota Retail |
| Energy | February 2022 and Loss Charges | A | ctuai | | | | | | |
| 1 a | Day-Ahead Asset Energy Amount - Energy Component | \$ | (27,167,885.66) | \$ | 37,590,407.27 | \$ | 10,422,521.61 | \$ | 7,362,694.08 |
| 1 c | Day-Ahead Asset Energy Amount - Loss Component | ş | 6,489,794.36 | | - | \$ | 6,489,794.36 | \$ | 4,584,530.72 |
| 3 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | (14,768.65) | \$ | - | \$ | (14,768.65) | \$ | (10,432.89 |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | (6,694,412.31) | \$ | - | \$ | (6,694,412.31) | \$ | (4,729,077.26 |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | 232,382.36 | \$ | - | \$ | 232,382.36 | \$ | 164,159.91 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | (4,790.91) | \$ | - | \$ | (4,790.91) | \$ | (3,384.40 |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | - |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | (272,119.11) | \$ | 3,257,929.69 | \$ | 2,985,810.58 | \$ | 2,109,241.00 |
| 13 с | Real-Time Asset Energy Amount - Loss Component | \$ | (19,238.34) | \$ | - | \$ | (19,238.34) | \$ | (13,590.38 |
| 14 | Real-Time Distribution of Losses Amount | \$ | (1,924,690.96) | \$ | - | \$ | (1,924,690.96) | \$ | (1,359,643.2 |
| 16 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 18 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | - |
| 21 | Real-time Net inadvertent Distribution | \$ | (17,940.82) | \$ | - | \$ | (17,940.82) | \$ | (12,673.7) |
| 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | 353,051.37 | \$ | - | \$ | 353,051.37 | \$ | 249,403.10 |
| 22 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | (0.93) | \$ | - | \$ | (0.93) | \$ | (0.6 |
| Conges | tion Related Charges | | | | | | | | |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 21,442,038.38 | \$ | - | \$ | 21,442,038.38 | \$ | 15,147,118.4 |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | 39,930.54 | \$ | - | \$ | 39,930.54 | \$ | 28,207.7 |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | 1,669,855.73 | \$ | - | \$ | 1,669,855.73 | \$ | 1,179,622.1 |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | (55,065.06) | \$ | - | \$ | (55,065.06) | \$ | (38,899.1 |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | - |
| 13 b | Real-Time Asset Energy Amount - Congestion Component | \$ | (51,356.63) | \$ | - | \$ | (51,356.63) | \$ | (36,279.4 |
| 15 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 17 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | - |
| 22 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | (0.82) | \$ | - | \$ | (0.82) | \$ | (0.5 |
| TR R | elated Charges | | | | | | | | |
| 28 | Financial Transmission Rights Hourly Allocation Amount | Ş | (757,344.86) | \$ | - | \$ | (757,344.86) | \$ | (535,004.7 |
| 30 | Financial Transmission Rights Monthly Allocation Amount | \$ | (229,135.70) | \$ | - | \$ | (229,135.70) | \$ | (161,866.4 |
| 31 | Financial Transmission Rights Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 32 | Financial Transmission Rights Yearly Allocation Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | Ş | (79,517.69) | \$ | - | \$ | (79,517.69) | \$ | (56,173.0 |
| 37 | Financial Transmission Guarantee Uplift Amount | \$ | 76,952.41 | \$ | - | \$ | 76,952.41 | \$ | 54,360.8 |
| 38 | Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | |
| Jplift (| RNU) Charges | | | | | | | | |
| 23 | Real-Time Revenue Neutrality Uplift Amount | Ş | 863,316.52 | \$ | - | \$ | 863,316.52 | \$ | 609,865.4 |
| Revenu | e Sufficiency Guarantee (RSG) Charges | | | | | | | | |
| 10 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | ş | 107,151.16 | \$ | - | \$ | 107,151.16 | \$ | 75,693.8 |
| 11 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | Ş | (68,247.46) | \$ | 20,975.45 | \$ | (47,272.01) | \$ | (33,393.9 |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | 156,889.00 | \$ | - | \$ | 156,889.00 | \$ | 110,829.7 |
| 25 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | (315,933.84) | | 173,646.78 | \$ | (142,287.06) | \$ | (100,514.6 |
| 43 | Real Time Price Volatility Make Whole Payment | \$ | (146,032.92) | | 36,535.19 | \$ | (109,497.73) | \$ | (77,351.5 |
| 1 arket | Administration Charges | Ė | | i | | İ | | | |
| 4 | Day-Ahead Market Administration Amount | S | 430,348.28 | S | (65,840.11) | \$ | 364,508.17 | s | 257,496.4 |
| 19 | Real-Time Market Administration Amount | ş | 43,748.04 | s | (7,363.56) | | 36,384.48 | \$ | 25,702.7 |
| 29 | Financial Transmission Rights Market Administration Amount | \$ | 19,663.25 | | - | \$ | 19,663.25 | \$ | 13,890.5 |
| 33 | Day-Ahead Schedule 24 Allocation Amount | \$ | 89,024.03 | | (13,335.16) | | 75,688.87 | \$ | 53,468.2 |
| 34 | Real -Time Schedule 24 Allocation Amount | \$ | (85,169.94) | | 121,955.63 | | 36,785.69 | \$ | 25,986.2 |
| 35 | Schedule 24 Admin Allocation | \$ | | \$ | - | \$ | | \$ | |
| | Energy Charges | Ė | | i | | Ė | | | |
| 12 | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 27 | Real-Time Virtual Energy Amount | \$ | _ | \$ | _ | \$ | _ | \$ | _ |
| | MISO Charges | Ť | | Ť | | Ť | | _ | |
| 20 | Real-Time Miscellaneous Amount | \$ | (67,565.94) | S | 82,359.87 | \$ | 14,793.93 | \$ | 10,450.7 |
| 26 | Real-Time Uninstructed Deviation Amount | \$ | (0.,000) | \$ | - | \$ | - 1,7.20.00 | \$ | |
| | n Revenue Rights (ARR) | Ţ | | Ÿ | | Ÿ | | , , | |
| 39 | Auction Revenue Rights - FTR Auction Transactions | \$ | 6,409,766.32 | s | | \$ | 6,409,766.32 | \$ | 4,527,997.1 |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | \$ | (6,456,472.05) | | 19,051.48 | \$ | (6,437,420.57) | \$ | (4,547,532.7 |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (235,898.25) | | | \$ | (235,898.25) | \$ | (166,643.6 |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | ş Ş | 76,750.07 | | - | \$ | 76,750.07 | \$ | 54,217.9 |
| 12 | | _ | | | | | | | |
| | TOTAL MISO CHARGES | \$ | (6,162,927.03) | \$ | 41,216,322.53 | \$ | 35,053,395.50 | \$ | 24,762,474.7 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 420,555.90 | \$ | 297,089.7 |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 112,474.56 | \$ | 79,454.4 |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | П. | | | | \$ | 34,520,365.04 | \$ | 24,385,930.4 |
| | TOR RETA | •=)) | | | | P | 71,040,005.04 | Ŷ | 4-,505,730.4 |

Docket No. E002/AA-21-295

Northern States Power Company MISO DAY 2 MARKET SETTLEMENT BY CATEGORIES

True-up Report Part B, Attachment 2
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| | | _ | | | | | | | Page 3 of 13 |
|---------|---|----|---|----|---------------|----|----------------|----|----------------|
| | M 2002 | | System | | Intersystem | | System Retail | Mi | nnesota Retail |
| Energy | March 2022 and Loss Charges | AX | ctuai | | | | | | |
| 1 a | Day-Ahead Asset Energy Amount - Energy Component | \$ | (10,712,280.30) | S | 24.517.879.09 | \$ | 13,805,598.79 | \$ | 9,731,362.52 |
| 1 c | Day-Ahead Asset Energy Amount - Loss Component | \$ | | \$ | - | \$ | 5,016,775.37 | \$ | 3,536,250.80 |
| 3 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | | \$ | _ | \$ | 13,298.62 | \$ | 9,374.00 |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | | | _ | \$ | (7,565,845.03) | \$ | (5,333,052.33 |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | | \$ | - | \$ | 515,194.63 | \$ | 363,153.08 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | (5,765.73) | \$ | - | \$ | (5,765.73) | \$ | (4,064.18 |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | - |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | (1,045,827.51) | \$ | 1,711,425.91 | \$ | 665,598.40 | \$ | 469,170.47 |
| 13 с | Real-Time Asset Energy Amount - Loss Component | \$ | 29,402.17 | \$ | - | \$ | 29,402.17 | \$ | 20,725.16 |
| 14 | Real-Time Distribution of Losses Amount | \$ | (1,485,293.66) | \$ | - | \$ | (1,485,293.66) | \$ | (1,046,961.55 |
| 16 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | 10.51 | \$ | - | \$ | 10.51 | \$ | 7.41 |
| 18 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | (10.51) | \$ | - | \$ | (10.51) | \$ | (7.41 |
| 21 | Real-time Net inadvertent Distribution | \$ | (15,018.40) | \$ | - | \$ | (15,018.40) | \$ | (10,586.25 |
| 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | 202,814.90 | \$ | - | \$ | 202,814.90 | \$ | 142,961.23 |
| 22 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | (1,557.06) | \$ | - | \$ | (1,557.06) | \$ | (1,097.55 |
| Conges | tion Related Charges | | | | | | | | |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | ş | 16,338,203.73 | \$ | - | \$ | 16,338,203.73 | \$ | 11,516,558.31 |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | (4,921.28) | \$ | - | \$ | (4,921.28) | \$ | (3,468.94 |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | 2,034,932.84 | \$ | - | \$ | 2,034,932.84 | \$ | 1,434,394.08 |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | 9,402.76 | \$ | - | \$ | 9,402.76 | \$ | 6,627.87 |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | - | \$ | - | \$ | | \$ | |
| 13 b | Real-Time Asset Energy Amount - Congestion Component | \$ | | \$ | _ | \$ | 186,010.29 | s | 131,115.90 |
| 15 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | | | | \$ | 82.67 | \$ | 58.27 |
| 17 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | s | _ | \$ | (82.67) | s | (58.27 |
| 22 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | ` ' | | _ | \$ | (7,521.32) | \$ | (5,301.67 |
| | lated Charges | i | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | i | | Ė | (1,1-1-1) | | (*,*** |
| 28 | Financial Transmission Rights Hourly Allocation Amount | \$ | (2,678,842.85) | S | | \$ | (2,678,842.85) | s | (1,888,276.73 |
| 30 | Financial Transmission Rights Monthly Allocation Amount | \$ | | | - | \$ | (135,623.14) | \$ | (95,598.75 |
| 31 | Financial Transmission Rights Transaction Amount | \$ | | \$ | | \$ | - | s | - |
| 32 | Financial Transmission Rights Yearly Allocation Amount | \$ | | \$ | _ | \$ | _ | \$ | _ |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | | \$ | _ | \$ | 110,840.68 | \$ | 78,129.96 |
| 37 | Financial Transmission Guarantee Uplift Amount | \$ | | | _ | \$ | (124,687.92) | \$ | (87,890.67 |
| 38 | Financial Transmission Rights Monthly Transaction Amount | \$ | | \$ | _ | \$ | (-= 1,001.0=) | s | - |
| | RNU) Charges | i | | i | | Ė | | | |
| 23 | Real-Time Revenue Neutrality Uplift Amount | \$ | 1,002,811.60 | S | | \$ | 1,002,811.60 | s | 706,867.07 |
| Revenue | e Sufficiency Guarantee (RSG) Charges | i | | i | | İ | | | |
| 10 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | 105,689.24 | \$ | - | \$ | 105,689.24 | s | 74,498.78 |
| 11 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | | | 64,684.36 | \$ | (40,919.92) | \$ | (28,843.85 |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | | \$ | · - | \$ | 120,827.58 | s | 85,169.58 |
| 25 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | | | 37,735.87 | \$ | (21,083.67) | \$ | (14,861.57 |
| 43 | Real Time Price Volatility Make Whole Payment | \$ | | | 35,731.61 | | (63,327.83) | \$ | (44,638.85 |
| | Administration Charges | i | (, , , | i | , | Ė | (11,11111) | · | (. ,, |
| 4 | Day-Ahead Market Administration Amount | s | 691,220.56 | \$ | (87,321.90) | s | 603,898.66 | s | 425,679.24 |
| 19 | Real-Time Market Administration Amount | \$ | | | (13,010.63) | | 53,953.27 | \$ | 38,030.86 |
| 29 | Financial Transmission Rights Market Administration Amount | \$ | | | - | \$ | 25,703.40 | \$ | 18,117.95 |
| 33 | Day-Ahead Schedule 24 Allocation Amount | \$ | | | (12,337.46) | | 83,506.61 | \$ | 58,862.58 |
| 34 | Real -Time Schedule 24 Allocation Amount | \$ | | | | \$ | (20,489.10) | \$ | (14,442.46 |
| 35 | Schedule 24 Admin Allocation | \$ | | \$ | , | \$ | (20, 107.10) | \$ | (* i, i=2.40 |
| | Energy Charges | Ť | | , | | - | | Ť | |
| 12 | Day-Ahead Virtual Energy Amount | \$ | _ | \$ | - | \$ | - | \$ | - |
| 27 | Real-Time Virtual Energy Amount | \$ | | \$ | _ | \$ | _ | \$ | - |
| | IISO Charges | پ | | , | | , | | Ÿ | |
| 20 | Real-Time Miscellaneous Amount | \$ | (30,495.19) | S | 82,359.87 | \$ | 51,864.68 | ş | 36,558.65 |
| 26 | Real-Time Uninstructed Deviation Amount | \$ | | \$ | - | \$ | - | \$ | - |
| | Revenue Rights (ARR) | Ţ | | Ÿ | | Ť | | , | |
| 39 | Auction Revenue Rights - FTR Auction Transactions | \$ | 4,769,796.97 | ç | | \$ | 4,769,796.97 | \$ | 3,362,159.38 |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | \$ | | | | \$ | (4,760,847.42) | \$ | (3,355,850.97 |
| 41 | Auction Revenue Rights - Monthly ARR Revenue Auction Revenue Rights - ARR Stage 2 Distribution | ş | | | | \$ | (176,339.19) | \$ | (124,298.89 |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | | | - | \$ | | \$ | |
| 44 | Auction revenue rights - Monthly infeasible ARR Revenue | à | 168,443.44 | þ | - | ٥ | 168,443.44 | ş | 118,733.29 |
| | TOTAL MISO CHARGES | \$ | 2,367,833.97 | \$ | 26,438,651.14 | \$ | 28,806,485.11 | \$ | 20,305,265.55 |
| | COMPANIE 4/ A 47 (FOR RETAIN) | | | | | | (02 === == | - | 404.000 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 683,555.33 | \$ | 481,828.05 |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 63,017.51 | \$ | 44,420.11 |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | ΠΔ | | | | \$ | 28,059,912.27 | \$ | 10 770 017 20 |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 1/ (FOR RETA | ш) | | | | Þ | 40,059,914.47 | Э | 19,779,017.39 |

True-up Report Part B, Attachment 2 Page 4 of 13

| | | _ | | _ | | | | _ | Page 4 of |
|----------------|--|-----|----------------|----|---------------|--------|-----------------|---------|---------------|
| | A "1 2022 | Ļ | System | | Intersystem | | System Retail | Mi | innesota Reta |
| nerov | April 2022 and Loss Charges | A | ctual | | | | | | |
| 1 a | Day-Ahead Asset Energy Amount - Energy Component | \$ | (9.159.595.57) | S | 25,051,707.89 | \$ | 15,892,112.32 | \$ | 11,272,639.6 |
| 1 c | Day-Ahead Asset Energy Amount - Loss Component | \$ | 7,816,430.78 | \$ | - | \$ | 7,816,430.78 | \$ | 5,544,373. |
| 3 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | 325.29 | | _ | \$ | 325.29 | \$ | 230. |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | | | _ | \$ | (11,665,751.59) | \$ | (8,274,785.0 |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | | \$ | | \$ | 992,817.50 | \$ | 704,228.2 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | (325.29) | \$ | - | \$ | (325.29) | \$ | (230. |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | | \$ | - | \$ | - 1 | \$ | |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | 1,246,288.86 | \$ | 2,575,191.40 | \$ | 3,821,480.26 | \$ | 2,710,663. |
| 13 с | Real-Time Asset Energy Amount - Loss Component | \$ | (18,077.93) | \$ | - | \$ | (18,077.93) | \$ | (12,823. |
| 14 | Real-Time Distribution of Losses Amount | \$ | (2,116,472.45) | \$ | - | \$ | (2,116,472.45) | \$ | (1,501,262. |
| 16 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 18 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | - |
| 21 | Real-time Net inadvertent Distribution | \$ | 123,517.35 | \$ | - | \$ | 123,517.35 | \$ | 87,613. |
| 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | 289,132.33 | \$ | - | \$ | 289,132.33 | \$ | 205,088 |
| 22 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | (89.93) | \$ | - | \$ | (89.93) | \$ | (63. |
| onges | tion Related Charges | | | Ė | | İ | | | , |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 28,183,518.65 | s | | \$ | 28,183,518.65 | \$ | 19,991,216 |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | | | _ | \$ | (5,627.69) | \$ | (3,991. |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | | | _ | \$ | 3,963,010.25 | \$ | 2,811,054 |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | _ | \$ | 5.627.69 | \$ | 3,991 |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | | \$ | | \$ | 5,027.05 | \$ | 2,221 |
| 3 b | Real-Time Asset Energy Amount - Congestion Component | \$ | | \$ | | \$ | 364,281.72 | \$ | 258,393 |
| .5 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | | \$ | | \$ | 304,201.72 | \$ | 230,373 |
| .7 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | |
| 22 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | | | _ | \$ | (461.41) | \$ | (327 |
| | elated Charges | ٠ | (401.41) | ٥ | - | ې | (401.41) | , | (327 |
| 8 | Financial Transmission Rights Hourly Allocation Amount | \$ | 5,796.07 | \$ | | \$ | 5,796.07 | \$ | 4,111 |
| .o 80 | | \$ | | | - | \$ | | \$ | |
| 1 | Financial Transmission Rights Monthly Allocation Amount | \$ | | \$ | - | ş Ş | (129,503.20) | \$ | (91,859 |
| | Financial Transmission Rights Transaction Amount | \$ | | \$ | - | ş Ş | - | ş \$ | |
| 32 | Financial Transmission Rights Yearly Allocation Amount | | | | - | | 20.424.45 | | 14.626 |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | | \$ | - | \$ | 20,634.65 | \$ | 14,636 |
| 37 | Financial Transmission Guarantee Uplift Amount | \$ | | | - | \$ | (30,412.30) | \$ | (21,572 |
| 88 -1:6- (1 | Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | | \$ | - | \$ | |
| | RNU) Charges | | 2 (2(002 02 | | | | 2 (2(002 02 | | 1.062.251 |
| 23 | Real-Time Revenue Neutrality Uplift Amount | \$ | 2,626,802.92 | ş | - | \$ | 2,626,802.92 | \$ | 1,863,251 |
| | e Sufficiency Guarantee (RSG) Charges | \$ | 101.040.02 | | | | 101,849.92 | | 70.044 |
| 0 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | | , | | 102.022.00 | \$ | | \$ | 72,244 |
| 1 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | | | 182,832.08 | \$ | (151,257.18) | \$ | (107,290 |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | | | - | \$ | 198,664.47 | \$ | 140,917 |
| .5 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | | | 55,677.84 | \$ | (139,857.28) | \$ | (99,203 |
| -3 | Real Time Price Volatility Make Whole Payment | \$ | (54,611.32) | \$ | 4,713.28 | Ş | (49,898.04) | \$ | (35,393 |
| | Administration Charges | | | | | | | | |
| 4 | Day-Ahead Market Administration Amount | \$ | | | (82,697.25) | | 564,443.85 | \$ | 400,372 |
| 9 | Real-Time Market Administration Amount | \$ | | | (8,723.48) | | 61,610.62 | \$ | 43,701 |
| .9 | Financial Transmission Rights Market Administration Amount | \$ | 32,244.43 | \$ | - | \$ | 32,244.43 | \$ | 22,871 |
| 33 | Day-Ahead Schedule 24 Allocation Amount | \$ | | \$ | (12,839.16) | \$ | 87,478.61 | \$ | 62,050 |
| 4 | Real -Time Schedule 24 Allocation Amount | \$ | (97,768.90) | \$ | 112,192.82 | \$ | 14,423.92 | \$ | 10,231 |
| 5 | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | |
| rtual : | Energy Charges | | | | | | | | |
| 2 | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 27 | Real-Time Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| her N | IISO Charges | | | | | | | | |
| 20 | Real-Time Miscellaneous Amount | \$ | 38,001.77 | \$ | 85,151.73 | \$ | 123,153.50 | \$ | 87,355 |
| :6 | Real-Time Uninstructed Deviation Amount | \$ | - | \$ | - | \$ | - | \$ | |
| ction | Revenue Rights (ARR) | | | | | | | | |
| 9 | Auction Revenue Rights - FTR Auction Transactions | \$ | 4,769,796.97 | \$ | - | \$ | 4,769,796.97 | \$ | 3,383,326 |
| 0 | Auction Revenue Rights - Monthly ARR Revenue | \$ | (4,790,198.14) | \$ | 30,413.60 | \$ | (4,759,784.54) | \$ | (3,376,224 |
| -1 | Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (176,339.19) | \$ | - | \$ | (176,339.19) | \$ | (125,081 |
| 12 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | | | - | \$ | 168,443.44 | \$ | 119,480 |
| | | _ | | | | | | _ | |
| | TOTAL MISO CHARGES | \$ | 22,990,118.74 | \$ | 27,993,620.75 | \$ | 50,983,739.49 | \$ | 36,163,935 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 658,298.90 | \$ | 466,946 |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 101,902.53 | \$ | 72,281 |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | IL) | | | | \$ | 50,223,538.06 | \$ | 35,624,707 |
| | | | | | | , | , , , | | , ., |

True-up Report Part B, Attachment 2 Page 5 of 13

| | | _ | | | | | | _ | Page 5 of |
|------------|---|----------|-------------------|----|---------------|----------|-------------------------------|----------|-----------------------------|
| | | L | System | | Intersystem | - : | System Retail | Mi | innesota Reta |
| 2 | May 2022 | Α | ctual | | | | | | |
| 0. | and Loss Charges | | (204.07(72 | e | 21 520 200 20 | 6 | 27.012.277.02 | | 10 002 542 4 |
| 1 a 1 c | Day-Ahead Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component | \$ \$ | | \$ | 21,528,399.29 | \$ \$ | 27,913,376.02 7,387,116.77 | \$ \$ | 19,992,542.4 5,290,913.0 |
| 3 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | | | - | \$ | (10.00) | \$ | (7.1 |
| 5 a | | \$ | , , | | - | \$ | (23,916,517.28) | \$ | (17,129,851.5 |
| | Day-Ahead Non-Asset Energy Amount - Energy Component | | | | - | \$ | | | |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | | \$ | - | | 1,682,768.52 | \$ | 1,205,258.0 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | 438.60 | \$ | 314. |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | - |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | , | | 4,350,563.95 | \$ | 2,383,193.94 | \$ | 1,706,927. |
| 13 с | Real-Time Asset Energy Amount - Loss Component | \$ | | | - | \$ | 155,272.85 | \$ | 111,211. |
| 14 | Real-Time Distribution of Losses Amount | \$ | , , , , | | - | \$ | (1,334,309.42) | \$ | (955,679. |
| 16 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | | \$ | - | \$ | - | \$ | - |
| 18 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | - |
| 21 | Real-time Net inadvertent Distribution | \$ | | \$ | - | \$ | 2,349.43 | \$ | 1,682. |
| 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | | \$ | - | \$ | 454,652.98 | \$ | 325,638. |
| 22 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | 9,435.95 | \$ | - | \$ | 9,435.95 | \$ | 6,758. |
| onges | tion Related Charges | | | | | | | | |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 21,360,293.87 | \$ | - | \$ | 21,360,293.87 | \$ | 15,298,994. |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | (40,521.96) | \$ | - | \$ | (40,521.96) | \$ | (29,023. |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | 7,989,057.21 | \$ | - | \$ | 7,989,057.21 | \$ | 5,722,044. |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | 41,169.11 | \$ | - | \$ | 41,169.11 | \$ | 29,486 |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | Ş | - | \$ | - | \$ | - | \$ | - |
| 13 b | Real-Time Asset Energy Amount - Congestion Component | ş | 884,312.87 | \$ | - | \$ | 884,312.87 | \$ | 633,376. |
| 15 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | - | \$ | - | \$ | - | \$ | _ |
| 17 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | |
| 22 b | Real-Time Non-Asset Energy Amount - Congestion Component | S | 3,577.01 | \$ | _ | \$ | 3,577.01 | \$ | 2,561 |
| r R | elated Charges | | | Ė | | Ė | , | | |
| 28 | Financial Transmission Rights Hourly Allocation Amount | S | (18,578,993.25) | s | - | \$ | (18,578,993.25) | \$ | (13,306,928. |
| 0 | Financial Transmission Rights Monthly Allocation Amount | \$ | | | _ | \$ | (681,472.03) | \$ | (488,094 |
| 1 | Financial Transmission Rights Transaction Amount | \$ | , | \$ | _ | \$ | - | \$ | (, |
| 32 | Financial Transmission Rights Yearly Allocation Amount | \$ | | \$ | | \$ | _ | \$ | |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | | | | \$ | (696,075.01) | \$ | (498,553 |
| 50 37 | | \$ | , | \$ | - | \$ | 655,956.21 | \$ | |
| 88 | Financial Transmission Guarantee Uplift Amount | ş Ş | | \$ | - | ş \$ | 055,950.21 | \$ | 469,818. |
| | Financial Transmission Rights Monthly Transaction Amount RNU) Charges | دِ | - | ې | - | ې | - | ې | - |
| 23 | | | 2 5 4 7 5 5 0 4 2 | | _ | 6 | 2 5 4 7 5 5 0 4 2 | | 1 024 645 |
| | Real-Time Revenue Neutrality Uplift Amount | \$ | 2,547,550.42 | ې | - | \$ | 2,547,550.42 | \$ | 1,824,645 |
| | e Sufficiency Guarantee (RSG) Charges | | 220.106.64 | 0 | | | 220.106.64 | | 164.010 |
| 10 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | | | - | \$ | 230,106.64 | \$ | 164,810. |
| 1 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | , | | 146,547.63 | \$ | (284,103.24) | \$ | (203,484 |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | | | - | \$ | 932,613.64 | \$ | 667,970 |
| 25 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | | | 601,279.81 | \$ | (435,351.53) | \$ | (311,814 |
| 13 | Real Time Price Volatility Make Whole Payment | \$ | (211,772.06) | \$ | 34,322.14 | \$ | (177,449.92) | \$ | (127,095. |
| arket | Administration Charges | | | | | | | | |
| 4 | Day-Ahead Market Administration Amount | \$ | | \$ | (56,545.32) | \$ | 510,875.46 | \$ | 365,906 |
| 9 | Real-Time Market Administration Amount | \$ | 64,083.55 | \$ | (6,080.78) | \$ | 58,002.77 | \$ | 41,543. |
| 29 | Financial Transmission Rights Market Administration Amount | \$ | 27,875.77 | \$ | - | \$ | 27,875.77 | \$ | 19,965 |
| 33 | Day-Ahead Schedule 24 Allocation Amount | \$ | 89,822.96 | \$ | (8,952.50) | \$ | 80,870.46 | \$ | 57,922 |
| 4 | Real -Time Schedule 24 Allocation Amount | \$ | (94,671.11) | \$ | 111,937.38 | \$ | 17,266.27 | \$ | 12,366 |
| 5 | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | |
| rtual | Energy Charges | | | | | | | | |
| 12 | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 27 | Real-Time Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| her N | MISO Charges | | | | | | | | |
| 20 | Real-Time Miscellaneous Amount | ş | 937.16 | \$ | 85,151.73 | \$ | 86,088.89 | \$ | 61,659 |
| 6 | Real-Time Uninstructed Deviation Amount | \$ | | \$ | | \$ | - | \$ | |
| ction | n Revenue Rights (ARR) | | | Ė | | Ė | | | |
| 9 | Auction Revenue Rights - FTR Auction Transactions | \$ | 4,769,796.97 | s | _ | \$ | 4,769,796.97 | \$ | 3,416,296 |
| 0 | Auction Revenue Rights - Monthly ARR Revenue | \$ | | | 28,953.60 | \$ | (4,761,244.54) | \$ | (3,410,170 |
| 1 | Auction Revenue Rights - Monthly ARR Revenue Auction Revenue Rights - ARR Stage 2 Distribution | ş \$ | | | 20,733.00 | \$ | (176,339.19) | \$ | (126,300. |
| -1 | | ş Ş | , | | - | \$ | | \$ \$ | |
| -2 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | Þ | 168,443.44 | Þ | - | à | 168,443.44 | à | 120,645 |
| | TOTAL MISO CHARGES | \$ | 2,454,497.77 | \$ | 26,815,576.93 | \$ | 29,270,074.70 | \$ | 20,964,257. |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 596,754.00 | \$ | 427,416 |
| | SCHEDULE 24 (FOR RETAIL) | _ | | | | \$ | 98,136.73 | \$ | 70,288. |
| | | | | | | | | φ | |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | IL) | | | | \$ | 28,575,183.97 | \$ | 20,466,552 |
| | | | | | | | | | |

True-up Report Part B, Attachment 2

| | | _ | | _ | | | | | Page 6 of |
|--------|--|----------|-----------------|----|---------------|----------|-----------------|----------|---------------|
| | June 2022 | A | System | | Intersystem | | System Retail | M | innesota Reta |
| nergy | and Loss Charges | •• | ctuai | | | | | | |
| 1 a | Day-Ahead Asset Energy Amount - Energy Component | \$ | (31,665,995.36) | \$ | 61,301,261.37 | \$ | 29,635,266.01 | \$ | 21,405,770.3 |
| 1 c | Day-Ahead Asset Energy Amount - Loss Component | \$ | 7,981,645.76 | \$ | - | \$ | 7,981,645.76 | \$ | 5,765,201.3 |
| 3 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | (10,665.66) | \$ | - | \$ | (10,665.66) | \$ | (7,703.8 |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | (28,340,952.22) | \$ | - | \$ | (28,340,952.22) | \$ | (20,470,877.9 |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | 3,411,214.86 | \$ | - | \$ | 3,411,214.86 | \$ | 2,463,945.5 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | 10,950.52 | \$ | - | \$ | 10,950.52 | \$ | 7,909. |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | - |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | 766,576.51 | \$ | 4,027,561.61 | \$ | 4,794,138.12 | \$ | 3,462,841. |
| 3 с | Real-Time Asset Energy Amount - Loss Component | \$ | 71,252.21 | \$ | - | \$ | 71,252.21 | \$ | 51,465. |
| 14 | Real-Time Distribution of Losses Amount | \$ | (3,458,138.67) | \$ | - | \$ | (3,458,138.67) | \$ | (2,497,838. |
| 6 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | 82.73 | \$ | - | \$ | 82.73 | \$ | 59. |
| 8 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | (82.73) | \$ | - | \$ | (82.73) | \$ | (59 |
| 1 | Real-time Net inadvertent Distribution | \$ | 146,142.15 | \$ | - | \$ | 146,142.15 | \$ | 105,559 |
| 2 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | 495,402.49 | \$ | - | \$ | 495,402.49 | \$ | 357,832 |
| 2 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | (78.00) | \$ | - | \$ | (78.00) | \$ | (56 |
| nges | tion Related Charges | | | | | | | | |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 30,398,547.13 | \$ | - | \$ | 30,398,547.13 | \$ | 21,957,093. |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | (46,820.41) | | - | \$ | (46,820.41) | \$ | (33,818 |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | 8,849,540.07 | \$ | - | \$ | 8,849,540.07 | \$ | 6,392,087 |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | 48,099.32 | \$ | - | \$ | 48,099.32 | \$ | 34,742 |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | |
| 3 b | Real-Time Asset Energy Amount - Congestion Component | \$ | 367,034.37 | \$ | - | \$ | 367,034.37 | \$ | 265,111 |
| 5 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | 1,070.28 | \$ | - | \$ | 1,070.28 | \$ | 773 |
| 7 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | (1,070.28) | \$ | (773 |
| 2 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | (41.66) | \$ | - | \$ | (41.66) | \$ | (30 |
| R Re | elated Charges | | | | | | | | |
| 8 | Financial Transmission Rights Hourly Allocation Amount | \$ | (32,883,959.16) | \$ | - | \$ | (32,883,959.16) | \$ | (23,752,325 |
| 0 | Financial Transmission Rights Monthly Allocation Amount | \$ | (322,124.90) | | - | \$ | (322,124.90) | \$ | (232,673 |
| 1 | Financial Transmission Rights Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 2 | Financial Transmission Rights Yearly Allocation Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 6 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | 522,681.87 | \$ | - | \$ | 522,681.87 | \$ | 377,536 |
| 7 | Financial Transmission Guarantee Uplift Amount | \$ | (478,145.35) | | - | \$ | (478,145.35) | \$ | (345,367 |
| 8 | Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | |
| | RNU) Charges | | | | | | | | |
| 3 | Real-Time Revenue Neutrality Uplift Amount | \$ | 1,088,940.74 | \$ | - | \$ | 1,088,940.74 | \$ | 786,549 |
| | e Sufficiency Guarantee (RSG) Charges | _ | 244.070.24 | _ | | _ | 244.070.24 | _ | 450.005 |
| 0 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | | | - | \$ | 211,870.31 | \$ | 153,035 |
| 1 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | | | 330,696.94 | \$ | (475,855.32) | \$ | (343,713 |
| 4 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | | | - | \$ | 1,011,288.59 | \$ | 730,461 |
| 5 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | | | 630,661.40 | \$ | (1,062,834.80) | \$ | (767,693 |
| 3 | Real Time Price Volatility Make Whole Payment | \$ | (448,116.10) | > | 159,994.47 | \$ | (288,121.63) | \$ | (208,112 |
| | Administration Charges | _ | 604 E4E 04 | _ | (TO 00 (00) | _ | 524 700 54 | _ | 200.405 |
| 4 | Day-Ahead Market Administration Amount | \$ | | | | | 526,780.54 | \$ | 380,497 |
| 9 | Real-Time Market Administration Amount | \$ | | | (7,004.55) | | 58,837.36 | \$ | 42,498 |
| 9 | Financial Transmission Rights Market Administration Amount | \$ | 58,675.52 | | - | \$ | 58,675.52 | \$ | 42,381 |
| 3 | Day-Ahead Schedule 24 Allocation Amount | \$ | 84,192.42 | | (12,449.11) | | 71,743.31 | \$ | 51,820 |
| 4 | Real -Time Schedule 24 Allocation Amount | \$ | (86,047.70) | | 101,633.64 | | 15,585.94 | \$ | 11,257 |
| 5 | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | |
| | Energy Charges | | | 0 | | | | | |
| 2 | Day-Ahead Virtual Energy Amount | \$ | | \$ | - | \$ | - | \$ | |
| 7 | Real-Time Virtual Energy Amount IISO Charges | \$ | - | \$ | - | \$ | - | \$ | |
| | 5 | | (12.497.924.24) | 0 | 12 (40 500 72 | 6 | 152 (04 40 | c | 111.007 |
| 5 | Real-Time Miscellaneous Amount | \$ \$ | | \$ | 12,040,306.73 | \$ \$ | 153,684.49 | \$ | 111,007 |
| | Real-Time Uninstructed Deviation Amount | ٥ | - | ې | - | ş | - | \$ | |
| | Revenue Rights (ARR) | | 14.246.626.27 | 0 | | | 14.046.606.07 | | 10.200.442 |
|) | Auction Revenue Rights - FTR Auction Transactions | \$ | | | (1.056.04) | \$ | 14,246,626.37 | \$ e | 10,290,442 |
|) | Auction Revenue Rights - Monthly ARR Revenue | \$ | | | (1,956.04) | \$ | (14,252,941.48) | \$ e | (10,295,004 |
| l 2 | Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (605,336.30) | | - | \$ \$ | (605,336.30) | \$ \$ | (437,238 |
| | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | 97,656.73 | þ | - | \$ | 97,656.73 | \$ | 70,538 |
| | TOTAL MISO CHARGES | \$ | (57,043,332.44) | \$ | 79,090,921.66 | \$ | 22,047,589.22 | \$ | 15,925,135 |
| | ACCUPATION DAY OF AN OLD DETAILS | | | | | | (44.202.45 | _ | 465.0== |
| _ | | | | | | \$ | 644,293.42 | \$ | 465,377 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | Ė | 011,270112 | | |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 87,329.25 | \$ | 63,078 |

True-up Report Part B, Attachment 2 Page 7 of 13

| 1 a 1 c 3 5 a 5 c 7 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | July 2022 and Loss Charges Day-Ahead Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Financial Bilateral Transaction Loss Amount Day-Ahead Non-Asset Energy Amount - Energy Component Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Amount Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Full Funding Guarantee Amount Financial Transmission Rights Full Funding Guarantee Amount | 5 | (39,790,408.02) 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 | \$ | 64,669,509.24 | s s s s s s s s s s s s s s s s s s s | 24,879,101.22 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (698,262.65) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 18,219,343.14 7,087,123.88 (5,073.92 (20,340,864.65 2,365,347.60 5,073.92 (511,348.33 345,848.83 (2,886,276.71 12,108.19 - 84,333.35 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 877,899.87 |
|---|--|--|---|--|---|--|--|--|--|
| 1 a 1 c 3 5 a 5 c 7 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Financial Bilateral Transaction Loss Amount Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Ion Related Charges Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Financial Bilateral Transmission Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Fongestion Rebate on Carve-Out Grandfathered Agreements Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Financial Rights Hourly Allocation Amount Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | 5 | (39,790,408.02) 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - - - - - - - - - - - | s s s s s s s s s s s s s s s s s s s | 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (698,262.65) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 7,087,123.88 (5,073.92 (20,340,864.65 2,365,347.60 5,073.92 (511,348.33 345,848.83 (2,886,276.71 12,108.19 |
| 1 a 1 c 3 5 a 5 c 7 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Financial Bilateral Transaction Loss Amount Day-Ahead Non-Asset Energy Amount - Energy Component Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Noses Rebate on Carve-Out Grandfathered Agreements Real-Time Noses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Congestion Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Son-Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount | 5 | 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - - - - - - - - - - - | s s s s s s s s s s s s s s s s s s s | 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (698,262.65) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 7,087,123.88 (5,073.92 (20,340,864.65 2,365,347.60 5,073.92 (511,348.33 345,848.83 (2,886,276.71 12,108.19 |
| 1 c 3 5 a 5 c 7 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Financial Bilateral Transaction Loss Amount Day-Ahead Non-Asset Energy Amount - Energy Component Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Congestion Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Financial Bilateral Transaction Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount | 5 | 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - - - - - - - - - - - | s s s s s s s s s s s s s s s s s s s | 9,677,696.45 (6,928.60) (27,776,107.33) 3,229,958.50 6,928.60 - (698,262.65) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 7,087,123.88 (5,073.92 (20,340,864.65 2,365,347.60 5,073.92 (511,348.33 345,848.83 (2,886,276.71 12,108.19 |
| 5 a 5 c 7 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Non-Asset Energy Amount - Energy Component Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Distribution of Losses Amount Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component In Related Charges Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Amount Real-Time Non-Asset Energy Amount - Congestion Component | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (27,776,107.33) 3,229,958.50 6,928.60 - (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - | s s s s s s s s s s s s s s s s s s | (27,776,107.33) 3,229,958.50 6,928.60 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (20,340,864.65 2,365,347.60 5,073.92 (511,348.33 345,848.83 (2,886,276.71 12,108.19 |
| 5 c 7 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Distribution of Losses Amount Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Amount Real-Time Non-Asset Energy Amount - Congestion Component | s s s s s s s s s s s s s s s s s s s | 3,229,958.50 6,928.60 - (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,229,958.50 6,928.60 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,365,347.60 5,073.92 (511,348.33 345,848.83 (2,886,276.71 12,108.19 |
| 7 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component India Transmission Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component India Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 6,928.60 - (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 6,928.60 (698,262.65) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 5,073.92 - (511,348.33 345,848.83 (2,886,276.71 12,108.19 - 84,333.35 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 - 877,899.87 |
| 9 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Congestion Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (5,377,666.58) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (698,262.65) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (511,348.33 345,848.83 (2,886,276.71 12,108.19 |
| 13 a 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rek 28 30 31 32 36 37 38 | Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Fonancial Bilateral Transaction Congestion Component Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Time Songestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (698,262.65) 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 345,848.83 (2,886,276.71 12,108.19 - 84,333.35 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 |
| 13 c 14 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Financial Bilateral Transmission Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Songestion Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 472,267.74 (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 472,267.74 (3,941,304.02) 16,534.13 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 345,848.83 (2,886,276.71 12,108.19 - 84,333.35 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 |
| 14 16 18 21 22 a 22 c Congesti 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rek 28 30 31 32 36 37 38 | Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-time Net inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Financial Bilateral Transmission Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Fonancial Bilateral Transaction Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Financial Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Songestion Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (3,941,304.02) 16,534.13 - 115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (2,886,276.71 12,108.19 - 84,333.35 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 |
| 16 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-time Net inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Congestion Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Congestion Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 16,534.13 -115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 16,534.13 -115,159.91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 12,108.19 84,333.35 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 |
| 18 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 30 31 32 36 37 38 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-time Net inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component ion Related Charges Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Congestion Rights Hourly Allocation Amount Real-Time Signal Real Real Real Real Real Real Real Re | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 115,159,91 186,735,34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 115,159,91 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 84,33.35 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 |
| 21 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 30 31 32 36 37 38 | Real-time Net inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component ion Related Charges Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.70 35,170.78 |
| 22 a 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 30 31 32 36 37 38 | Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Ion Related Charges Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 186,735.34 (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 | \$ \$ \$ \$ \$ \$ \$ \$ | 136,749.12 (287.68 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 |
| 22 c Congestic 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Real-Time Non-Asset Energy Amount - Loss Component Joy-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (392.83) 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 | \$ \$ \$ \$ \$ \$ \$ | (287.68 12,426,597.32 (35,170.78 5,121,996.70 35,170.78 |
| 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ | 16,968,919.80 (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ \$ | 12,426,597.32 (35,170.78 5,121,996.76 35,170.78 - 877,899.87 |
| 1 b 2 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ | (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ | (35,170.78 5,121,996.76 35,170.78 - 877,899.87 |
| 2 5 b 6 8 13 b 15 17 22 b FTR Rela 30 31 32 36 37 38 | Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ | - - - - - - - | \$ \$ \$ \$ \$ \$ \$ | (48,026.83) 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ \$ | (35,170.78 5,121,996.76 35,170.78 - 877,899.87 |
| 5 b 6 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 6,994,251.93 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ \$ | - - - - - - | \$ \$ \$ \$ \$ | 6,994,251.93 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ \$ | 5,121,996.76 35,170.78 - 877,899.87 |
| 6 8 13 b 15 17 22 b TR Rel 28 30 31 32 36 37 38 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ | 48,026.83 - 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ | - - - - - | \$ \$ \$ \$ | 48,026.83 - 1,198,800.61 | \$ \$ \$ \$ | 35,170.78 - 877,899.87 |
| 8 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ | 1,198,800.61 0.00 - 14,906.82 | \$ \$ \$ \$ | - - - - | \$ \$ \$ \$ | 1,198,800.61 | \$ \$ \$ \$ | 877,899.87 |
| 13 b 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component lated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ | 0.00 | \$ \$ \$ | | \$ \$ \$ | | \$ \$ \$ | |
| 15 17 22 b FTR Rela 28 30 31 32 36 37 38 | Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ | 0.00 | \$ \$ | - - - | \$ \$ | | \$ \$ | |
| 17 22 b FTR Rela 28 30 31 32 36 37 38 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ | 14,906.82 | \$ | - - - | \$ | 0.00 | \$ | 0.00 |
| 22 b FTR Rel 28 30 31 32 36 37 38 | Real-Time Non-Asset Energy Amount - Congestion Component ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ | | | - | | - | | - |
| 28 30 31 32 36 37 38 | ated Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ | | \$ | - | | | | |
| 28 30 31 32 36 37 38 | Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ | (17,479,894.33) | | | \$ | 14,906.82 | \$ | 10,916.49 |
| 30 31 32 36 37 38 | Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ | (17,479,894.33) | | | | | | |
| 31 32 36 37 38 | Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ | | \$ | - | \$ | (17,479,894.33) | \$ | (12,800,791.72 |
| 32 36 37 38 | Financial Transmission Rights Yearly Allocation Amount | | (23,297.09) | \$ | - | \$ | (23,297.09) | \$ | (17,060.8 |
| 36 37 38 | - • | - | - | \$ | - | \$ | - | \$ | - |
| 37 38 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 38 | | \$ | 279,916.93 | \$ | - | \$ | 279,916.93 | \$ | 204,987.4 |
| | Financial Transmission Guarantee Uplift Amount | \$ | (275,855.97) | \$ | - | \$ | (275,855.97) | \$ | (202,013.5 |
| Uplift (R | Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| | tNU) Charges | | | | | | | | |
| 23 | Real-Time Revenue Neutrality Uplift Amount | \$ | 476,854.77 | \$ | - | \$ | 476,854.77 | \$ | 349,207.98 |
| | Sufficiency Guarantee (RSG) Charges | | | | | | | | |
| 10 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | 251,491.25 | \$ | - | \$ | 251,491.25 | \$ | 184,170.86 |
| | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | (436,847.79) | \$ | 268,746.13 | \$ | (168,101.66) | \$ | (123,103.40 |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | 524,869.57 | \$ | - | \$ | 524,869.57 | \$ | 384,369.9 |
| 25 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | (708,077.27) | \$ | 319,907.29 | \$ | (388,169.98) | \$ | (284,262.70 |
| | Real Time Price Volatility Make Whole Payment | \$ | (281,870.86) | \$ | 116,139.58 | \$ | (165,731.28) | \$ | (121,367.5 |
| | Administration Charges | | | | | | | | |
| | Day-Ahead Market Administration Amount | \$ | , | \$ | (89,245.49) | | 671,719.58 | \$ | 491,910.4 |
| 19 | Real-Time Market Administration Amount | \$ | 66,574.73 | \$ | (7,928.11) | \$ | 58,646.62 | \$ | 42,947.81 |
| 29 | Financial Transmission Rights Market Administration Amount | \$ | 10,560.47 | \$ | - | \$ | 10,560.47 | \$ | 7,733.59 |
| 33 | Day-Ahead Schedule 24 Allocation Amount | \$ | 112,641.34 | | (12,052.24) | \$ | 100,589.10 | \$ | 73,662.92 |
| 34 | Real -Time Schedule 24 Allocation Amount | \$ | (93,303.21) | \$ | 83,386.98 | \$ | (9,916.23) | \$ | (7,261.8 |
| | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | - |
| | Energy Charges | | | | | | | | |
| | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| | Real-Time Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| | ISO Charges | | | | | | | | |
| | Real-Time Miscellaneous Amount | | (12,979,852.54) | | 13,017,142.73 | \$ | 37,290.19 | \$ | 27,308.17 |
| | Real-Time Uninstructed Deviation Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| uction I | Revenue Rights (ARR) | | | | | | | | |
| | Auction Revenue Rights - FTR Auction Transactions | | 14,246,626.37 | | - | \$ | 14,246,626.37 | \$ | 10,433,020.50 |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | \$ | (14,250,985.44) | \$ | 88,050.18 | \$ | (14,162,935.26) | \$ | (10,371,732.2 |
| | Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (605,336.38) | | - | \$ | (605,336.38) | \$ | (443,297.0 |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | 97,656.74 | \$ | - | \$ | 97,656.74 | \$ | 71,515.5 |
| | TOTAL MISO CHARCES | • | (68 317 911 10) | ¢. | 83 133 060 22 | \$ | 14 915 240 02 | ¢ | 10 8/0 /21 5 |
| | TOTAL MISO CHARGES | Ţ | (68,317,811.19) | Þ | 03,133,000.22 | Ų | 14,815,249.03 | \$ | 10,849,431.5 |
| | | | | | | \$ | 740,926.67 | \$ | 542,591.84 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | _ | | | | • | - | _ | |
| | | _ | | | | \$ | 00 (== 0= | \$ | |
| | SCHEDULE 16 & 17 (FOR RETAIL) SCHEDULE 24 (FOR RETAIL) | | | | | | 90,672.87 | | 66,401.12 |

True-up Report Part B, Attachment 2

| | | | | | _ | | | | Page 8 of |
|----------|--|----|-----------------|----|---------------|----|-----------------|----------|---------------|
| | August 2022 | A | System | | Intersystem | | System Retail | M | innesota Reta |
| nergy ar | nd Loss Charges | | Ctual | | | | | | |
| 1 a 1 | Day-Ahead Asset Energy Amount - Energy Component | \$ | (50,516,419.76) | \$ | 70,494,662.55 | \$ | 19,978,242.79 | \$ | 14,415,493. |
| 1 c 1 | Day-Ahead Asset Energy Amount - Loss Component | \$ | 10,998,863.34 | \$ | - | \$ | 10,998,863.34 | \$ | 7,936,335. |
| 3 1 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | (10,996.72) | \$ | - | \$ | (10,996.72) | \$ | (7,934. |
| 5 a 1 | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | (29,633,437.87) | \$ | - | \$ | (29,633,437.87) | \$ | (21,382,292 |
| 5 c l | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | 3,340,160.83 | \$ | - | \$ | 3,340,160.83 | \$ | 2,410,125 |
| 7 1 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | 10,996.72 | \$ | - | \$ | 10,996.72 | \$ | 7,934 |
| 9 1 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | |
| 3 a 1 | Real-Time Asset Energy Amount - Energy Component | \$ | 152,070.68 | \$ | 6,347,710.59 | \$ | 6,499,781.27 | \$ | 4,689,979 |
| 3 c 1 | Real-Time Asset Energy Amount - Loss Component | \$ | 267,339.94 | \$ | - | \$ | 267,339.94 | \$ | 192,901 |
| 4 1 | Real-Time Distribution of Losses Amount | \$ | (3,520,667.46) | \$ | - | \$ | (3,520,667.46) | \$ | (2,540,371 |
| 5 1 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | | \$ | - | \$ | 14,607.93 | \$ | 10,540 |
| 3 1 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | ŕ |
| | Real-time Net inadvertent Distribution | \$ | | \$ | _ | \$ | 91,273.37 | \$ | 65,859 |
| | Real-Time Non-Asset Energy Amount - Energy Component | \$ | | \$ | _ | \$ | 77,270.39 | \$ | 55,755 |
| | Real-Time Non-Asset Energy Amount - Loss Component | \$ | | | | \$ | (12.07) | \$ | 33,733 |
| | | پ | (12.07) | ٠ | | پ | (12.07) | ٠ | (c |
| - | on Related Charges | 0 | 36,113,942.48 | 6 | | \$ | 26 112 042 49 | e | 26.050.262 |
| | Day-Ahead Asset Energy Amount - Congestion Component | \$ | | | - | | 36,113,942.48 | \$ | 26,058,363 |
| | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | , | | - | \$ | (40,304.37) | \$ | (29,082 |
| | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | | | - | \$ | 5,436,862.77 | \$ | 3,923,020 |
| | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | 40,304.37 | \$ | 29,082 |
| | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | |
| 3 b 1 | Real-Time Asset Energy Amount - Congestion Component | \$ | 464,871.01 | \$ | - | \$ | 464,871.01 | \$ | 335,432 |
| 5 1 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 7 1 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | - | \$ | - | \$ | - | \$ | |
| 2 b 1 | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | (0.04) | \$ | - | \$ | (0.04) | \$ | (0 |
| R Rela | ited Charges | | | | | | | | |
| 3 1 | Financial Transmission Rights Hourly Allocation Amount | \$ | (31,643,701.31) | \$ | - | \$ | (31,643,701.31) | \$ | (22,832,817 |
|) 1 | Financial Transmission Rights Monthly Allocation Amount | \$ | (676,846.58) | \$ | - | \$ | (676,846.58) | \$ | (488,385 |
| | Financial Transmission Rights Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 2 1 | Financial Transmission Rights Yearly Allocation Amount | \$ | _ | \$ | - | \$ | _ | \$ | |
| | Financial Transmission Rights Full Funding Guarantee Amount | \$ | | | _ | \$ | (749,904.44) | \$ | (541,100 |
| | Financial Transmission Guarantee Uplift Amount | \$ | | \$ | _ | \$ | 744,017.63 | \$ | 536,853 |
| | Financial Transmission Rights Monthly Transaction Amount | \$ | , | \$ | _ | \$ | - | \$ | 550,050 |
| | NU) Charges | Ÿ | | Ÿ | | Ÿ | | Ÿ | |
| | Real-Time Revenue Neutrality Uplift Amount | \$ | 159,335.19 | S | | \$ | 159,335.19 | \$ | 114,969 |
| | Sufficiency Guarantee (RSG) Charges | پ | 137,333.17 | ٠ | | پ | 137,333.17 | پ | 114,707 |
| | | \$ | 200.846.04 | 6 | | \$ | 209,846.94 | \$ | 151 415 |
| | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | | | | | | , | | 151,417 |
| | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | | | 54,493.31 | \$ | (89,519.08) | \$ | (64,593 |
| | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | | | - | \$ | 684,416.26 | \$ | 493,847 |
| | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | | | 884,671.06 | \$ | (371,546.82) | \$ | (268,093 |
| | Real Time Price Volatility Make Whole Payment | \$ | (158,139.46) | \$ | 45,819.17 | \$ | (112,320.29) | \$ | (81,045 |
| | dministration Charges | | | | | | | | |
| 1 | Day-Ahead Market Administration Amount | \$ | 561,495.23 | \$ | (9,600.12) | \$ | 551,895.11 | \$ | 398,225 |
|) 1 | Real-Time Market Administration Amount | \$ | 48,510.28 | \$ | 1,086.31 | \$ | 49,596.59 | \$ | 35,786 |
|) 1 | Financial Transmission Rights Market Administration Amount | \$ | 97,297.00 | \$ | - | \$ | 97,297.00 | \$ | 70,205 |
| 3 1 | Day-Ahead Schedule 24 Allocation Amount | \$ | 101,770.81 | \$ | (11,757.93) | \$ | 90,012.88 | \$ | 64,949 |
| 1 | Real -Time Schedule 24 Allocation Amount | \$ | (87,104.36) | \$ | 108,083.61 | \$ | 20,979.25 | \$ | 15,137 |
| ; ; | Schedule 24 Admin Allocation | \$ | | \$ | - | \$ | - | \$ | |
| tual Er | nergy Charges | | | | | | | | |
| | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| | Real-Time Virtual Energy Amount | \$ | | \$ | _ | \$ | _ | \$ | |
| | SO Charges | Ť | | Ť | | Ť | | Ť | |
| | Real-Time Miscellaneous Amount | ç | (12,860,424.53) | ç | 13 017 142 73 | Ş | 156,718.20 | \$ | 113,081 |
| | Real-Time Uninstructed Deviation Amount | \$ | | \$ | 15,017,142.75 | \$ | 150,710.20 | \$ | 113,001 |
| | Revenue Rights (ARR) | پ | | ٠ | | پ | | پ | |
| | | _ | 4404660600 | _ | | _ | 4404660607 | _ | 40.000.00 |
| | Auction Revenue Rights - FTR Auction Transactions | \$ | | | 40.045 | \$ | 14,246,626.37 | \$ | 10,279,790 |
| | Auction Revenue Rights - Monthly ARR Revenue | \$ | | | 43,812.41 | \$ | (14,207,173.03) | \$ | (10,251,322 |
| | Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (605,336.65) | | - | \$ | (605,336.65) | \$ | (436,786 |
| 2 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | 97,656.73 | \$ | - | \$ | 97,656.73 | \$ | 70,465 |
| , | TOTAL MISO CHARGES | • | (72 104 075 00) | ¢ | 90 976 122 60 | • | 18 791 1/19 62 | ¢ | 13 551 719 |
| | TOTAL MISO CHARGES | \$ | (72,194,975.06) | \$ | 70,976,123.69 | \$ | 18,781,148.63 | \$ | 13,551,718 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 698,788.70 | \$ | 504,217 |
| | () | | | - | | Ť | 270,100.10 | <u> </u> | 50 Ty211 |
| | | | | | | | | | |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 110,992.13 | \$ | 80,087 |

True-up Report Part B, Attachment 2 Page 9 of 13

| | | _ | | | | | | | Page 9 of |
|------------|---|----------|-------------------------------------|---------|--------------------------|----------|-------------------------------|----------|-----------------------------|
| | | L | System | | Intersystem | | System Retail | Mi | innesota Reta |
| 7 | September 2022 | A | ctual | | | | | | |
| | and Loss Charges | | (17.201.451.71) | 0 | 52.041.061.47 | 0 | 24 770 600 76 | | 25 100 211 5 |
| 1 a 1 c | Day-Ahead Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component | \$ | 5 (17,261,451.71) 5 5,951,512.55 | \$ | 52,041,001.47 | \$ \$ | 34,779,609.76 5,951,512.55 | \$ \$ | 25,100,311.5 4,295,183.8 |
| 3 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | , , | | - | \$ | (13,200.03) | \$ | (9,526.4 |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | (, , , | | | \$ | (24,338,481.07) | \$ | (17,564,988.8 |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | | \$ | | s | 2,919,839.90 | \$ | 2,107,237.3 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | | | \$ | 13,200.03 | \$ | 9,526.4 |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | | \$ | | s | 15,200.05 | \$ | J,J20 |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | | | 2,105,207.97 | \$ | 3,824,373.91 | \$ | 2,760,036.0 |
| 13 с | Real-Time Asset Energy Amount - Loss Component | \$ | | \$ | - | \$ | 109,605.54 | \$ | 79,101.9 |
| 14 | Real-Time Distribution of Losses Amount | \$ | | | _ | \$ | (2,792,430.88) | \$ | (2,015,286. |
| 16 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | | | | \$ | 22,808.71 | \$ | 16,460. |
| 18 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | | _ | \$ | (127.12) | \$ | (91. |
| 21 | Real-time Net inadvertent Distribution | \$ | , | | | s | 50,617.39 | \$ | 36,530. |
| 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | , | | _ | \$ | (118,367.22) | \$ | (85,425. |
| 22 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | , | | _ | \$ | (1,807.54) | \$ | (1,304. |
| | tion Related Charges | , | (1,007.54) | Ÿ | | Ÿ | (1,007.54) | , | (1,504. |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 8,241,682.60 | S | _ | \$ | 8,241,682.60 | \$ | 5,947,990. |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | | | | \$ | (23,886.69) | \$ | (17,238. |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | , | | | \$ | 4,144,504.24 | \$ | 2,991,072. |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | | \$ | 23,886.69 | \$ | 17,238. |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | | \$ | | \$ | 23,000.07 | \$ | 17,230. |
| о 13 b | | \$ | | \$ | - | \$ | 552,047.55 | \$ | 398,410. |
| 15 5 | Real-Time Asset Energy Amount - Congestion Component | \$ | | | - | \$ | 1,377.68 | \$ | 994. |
| 17 | Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | | - | ş Ş | (1,377.68) | \$ | (994. |
| 22 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | | | - | \$ | (199,740.58) | \$ | (144,152. |
| | elated Charges | د | (199,740.38) | ې | - | ې | (199,740.38) | ې | (144,132. |
| 28 | Financial Transmission Rights Hourly Allocation Amount | s | (4,461,099.61) | ç | | \$ | (4,461,099.61) | \$ | (3,219,558. |
| 30 | Financial Transmission Rights Hourly Allocation Amount | \$ | | | - | \$ | (72,810.45) | \$ | (52,547. |
| 31 | | \$ | , | \$ | - | ş Ş | (72,610.43) | \$ | (32,347. |
| 32 | Financial Transmission Rights Transaction Amount | \$ | | \$ | - | \$ | - | \$ | |
| 36 | Financial Transmission Rights Yearly Allocation Amount | \$ | | \$ | - | \$ | 749,614.98 | \$ | 540.004 |
| 37 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | | \$ | - | ş Ş | | \$ | 540,994 |
| 38 | Financial Transmission Guarantee Uplift Amount | \$ | | \$ | - | \$ | (743,057.38) | \$ | (536,261. |
| | Financial Transmission Rights Monthly Transaction Amount RNU) Charges | ڊ | , - | ې | - | ې | - | ې | - |
| 23 | Real-Time Revenue Neutrality Uplift Amount | \$ | 550,061.07 | ç | | \$ | 550,061.07 | \$ | 396,976. |
| | e Sufficiency Guarantee (RSG) Charges | ږ | 330,001.07 | پ | | پ | 330,001.07 | ٠ | 370,770. |
| 10 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | 81,361.64 | S | _ | s | 81,361.64 | \$ | 58,718. |
| 11 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | | | 411,923.67 | \$ | (367,103.06) | \$ | (264,936 |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | , | | 411,525.07 | \$ | 356,531.35 | \$ | 257,307 |
| 25 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | | | (58,783.31) | | (485,338.96) | \$ | (350,267. |
| 13 | Real Time Price Volatility Make Whole Payment | \$ | | | 56,787.68 | | (190,215.25) | \$ | (137,277 |
| | Administration Charges | ږ | (247,002.73) | پ | 30,707.00 | پ | (170,213.23) | , | (137,277. |
| 4 | Day-Ahead Market Administration Amount | \$ | 794,149.26 | ç | (157,634.09) | 8 | 636,515.17 | \$ | 459,370. |
| 19 | Real-Time Market Administration Amount | \$ | | | (14,568.59) | | 60,044.53 | \$ | 43,333. |
| 29 | Financial Transmission Rights Market Administration Amount | \$ | | | (14,500.57) | \$ | (40,132.01) | \$ | |
| 33 | _ | \$ | | | (13 504 16) | | | \$ | (28,963. |
| 34 | Day-Ahead Schedule 24 Allocation Amount Real -Time Schedule 24 Allocation Amount | \$ | | | (13,504.16) 81,582.80 | ş Ş | 94,369.96 (13,835.26) | \$ | 68,106. (9,984. |
| 35 | Schedule 24 Admin Allocation | \$ | | \$ | 01,302.00 | \$ | (13,633.20) | \$ | (2,204. |
| | Energy Charges | ڊ | , - | ې | - | ې | - | ې | |
| 12 | | \$ | | \$ | | \$ | | \$ | |
| 27 | Day-Ahead Virtual Energy Amount | \$ | | \$ | - | \$ | - | \$ | - |
| | Real-Time Virtual Energy Amount ### MISO Charges | ڊ | , - | ې | - | ې | - | ې | |
| | Real-Time Miscellaneous Amount | | (11,519,572.44) | 0 | 12 507 224 00 | | 1.077.662.46 | | 777 744 |
| 20 26 | Real-Time Uninstructed Deviation Amount | ş \$ | | ş \$ | 12,397,234.90 | \$ \$ | 1,077,662.46 | \$ \$ | 777,744. |
| | | ڊ | , - | ې | - | ې | - | ې | |
| | Revenue Rights (ARR) | | 0.002.261.64 | 6 | | c | 0.002.261.64 | | 7 120 710 |
| 39 | Auction Revenue Rights - FTR Auction Transactions | \$ | | | - | \$ | 9,883,261.64 | \$ | 7,132,712 |
| 10 | Auction Revenue Rights - Monthly ARR Revenue | \$ | , | | 36,633.65 | \$ | (9,866,376.32) | \$ e | (7,120,526 |
| 1 | Auction Revenue Rights - ARR Stage 2 Distribution | \$ \$ | | | - | \$ \$ | (497,087.41) | \$ e | (358,746 |
| 12 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | Ş | 240,801.85 | Þ | - | þ | 240,801.85 | \$ | 173,785 |
| | TOTAL MISO CHARGES | \$ | 36,947,125.31) | \$ | 67,085,941.99 | \$ | 30,138,816.68 | \$ | 21,751,068. |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 656,427.69 | \$ | 473,741. |
| | | _ | | | | | | | |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 80,534.70 | \$ | 58,121 |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | IL) |) | | | \$ | 29,401,854.29 | \$ | 21,219,205 |
| | | | | | | | | | |

True-up Report Part B, Attachment 2

| | | _ | | | | | | | Page 10 of |
|---------|--|----|-----------------|----|---------------|----|-----------------|----|---------------|
| | 0 . 1 . 2022 | | System | | Intersystem | | System Retail | M | innesota Reta |
| nerov | October 2022 and Loss Charges | Α | ctual | | | | | | |
| 1 a | Day-Ahead Asset Energy Amount - Energy Component | \$ | (15,524,311.34) | S | 32 012 824 63 | \$ | 16,488,513.29 | \$ | 11,691,535.6 |
| 1 c | Day-Ahead Asset Energy Amount - Loss Component | \$ | 5,024,051.38 | | - | \$ | 5,024,051.38 | \$ | 3,562,411. |
| 3 | Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | | | _ | \$ | (4,126.88) | \$ | (2,926. |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | | | _ | \$ | (16,348,163.94) | \$ | (11,592,017 |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | 1,772,202.04 | | _ | \$ | 1,772,202.04 | \$ | 1,256,618 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | _ | \$ | 4,126.88 | \$ | 2,926 |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | | \$ | _ | \$ | - | \$ | |
| 3 a | Real-Time Asset Energy Amount - Energy Component | \$ | | \$ | 2,798,481.91 | \$ | 3,444,645.44 | \$ | 2,442,500 |
| 3 с | Real-Time Asset Energy Amount - Loss Component | \$ | | | - | \$ | 21,648.50 | \$ | 15,350 |
| 4 | Real-Time Distribution of Losses Amount | \$ | | | _ | \$ | (1,616,198.25) | \$ | (1,146,000 |
| 5 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | | \$ | - | \$ | 14,289.62 | \$ | 10,132 |
| 8 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | (8.31) | \$ | - | \$ | (8.31) | \$ | (5 |
| 1 | Real-time Net inadvertent Distribution | \$ | (251,384.23) | \$ | - | \$ | (251,384.23) | \$ | (178,249 |
| 2 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | | | - | \$ | 520,732.14 | \$ | 369,236 |
| 2 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | | | - | \$ | (197.54) | \$ | (140 |
| nges | tion Related Charges | | | | | | | | ` |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | ş | 14,202,742.96 | \$ | - | Ş | 14,202,742.96 | \$ | 10,070,760 |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | 923.80 | \$ | - | \$ | 923.80 | \$ | 655 |
| 5 Ь | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | 2,014,813.70 | \$ | - | \$ | 2,014,813.70 | \$ | 1,428,647 |
| 5 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | ş | (923.80) | \$ | _ | \$ | (923.80) | \$ | (655 |
| 3 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | | \$ | _ | \$ | - | \$ | , |
| 3 b | Real-Time Asset Energy Amount - Congestion Component | \$ | | \$ | - | \$ | 269,558.00 | \$ | 191,135 |
| 5 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | | \$ | _ | \$ | 86.65 | \$ | 61 |
| 7 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | _ | \$ | (86.65) | \$ | (61 |
| 2 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | , , | | _ | \$ | (32,248.60) | \$ | (22,866 |
| R Re | elated Charges | | | Ė | | İ | | | |
| 8 | Financial Transmission Rights Hourly Allocation Amount | ş | (2,183,842.20) | \$ | - | \$ | (2,183,842.20) | \$ | (1,548,500 |
|) | Financial Transmission Rights Monthly Allocation Amount | \$ | (200,765.40) | \$ | - | \$ | (200,765.40) | \$ | (142,357 |
| l | Financial Transmission Rights Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 2 | Financial Transmission Rights Yearly Allocation Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 6 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | (182,284.97) | \$ | - | \$ | (182,284.97) | \$ | (129,253 |
| 7 | Financial Transmission Guarantee Uplift Amount | \$ | 177,556.08 | \$ | - | \$ | 177,556.08 | \$ | 125,899 |
| 8 | Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | |
| lift (J | RNU) Charges | | | | | | | | |
| 3 | Real-Time Revenue Neutrality Uplift Amount | Ş | 897,100.36 | \$ | - | \$ | 897,100.36 | \$ | 636,108 |
| venu | e Sufficiency Guarantee (RSG) Charges | | | | | | | | |
|) | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | 105,247.84 | \$ | - | \$ | 105,247.84 | \$ | 74,628 |
| 1 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | (321,128.68) | \$ | 140,560.34 | \$ | (180,568.34) | \$ | (128,035 |
| 4 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | 122,490.20 | \$ | - | \$ | 122,490.20 | \$ | 86,854 |
| 5 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | (67,500.22) | \$ | 64,252.59 | \$ | (3,247.63) | \$ | (2,302 |
| 3 | Real Time Price Volatility Make Whole Payment | \$ | (135,816.23) | \$ | 39,845.46 | \$ | (95,970.77) | \$ | (68,050 |
| rket | Administration Charges | | | | | | | | |
| 1 | Day-Ahead Market Administration Amount | \$ | 542,953.21 | \$ | (79,553.13) | \$ | 463,400.08 | \$ | 328,583 |
|) | Real-Time Market Administration Amount | \$ | 56,164.99 | \$ | (6,397.38) | \$ | 49,767.61 | \$ | 35,288 |
| 9 | Financial Transmission Rights Market Administration Amount | \$ | 21,039.77 | \$ | - | \$ | 21,039.77 | \$ | 14,918 |
| 3 | Day-Ahead Schedule 24 Allocation Amount | \$ | 96,905.88 | \$ | (14,370.18) | \$ | 82,535.70 | \$ | 58,523 |
| 4 | Real -Time Schedule 24 Allocation Amount | \$ | (82,788.98) | \$ | 88,358.61 | \$ | 5,569.63 | \$ | 3,949 |
| 5 | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | |
| tual ! | Energy Charges | | | | | | | | |
| 2 | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 7 | Real-Time Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| ner N | MISO Charges | | | | | | | | |
|) | Real-Time Miscellaneous Amount | \$ | (12,878,321.03) | \$ | 13,017,142.73 | \$ | 138,821.70 | \$ | 98,434 |
| 5 | Real-Time Uninstructed Deviation Amount | \$ | - | \$ | - | \$ | - | \$ | |
| ction | Revenue Rights (ARR) | | | | | | | | |
|) | Auction Revenue Rights - FTR Auction Transactions | \$ | 9,883,261.64 | \$ | - | \$ | 9,883,261.64 | \$ | 7,007,939 |
|) | Auction Revenue Rights - Monthly ARR Revenue | \$ | (9,903,009.97) | \$ | 37,502.99 | \$ | (9,865,506.98) | \$ | (6,995,350 |
| | Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (497,086.80) | \$ | - | \$ | (497,086.80) | \$ | (352,470 |
| 2 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | 240,801.85 | \$ | - | \$ | 240,801.85 | \$ | 170,745 |
| | | _ | | | | | | | |
| | TOTAL MISO CHARGES | \$ | (23,595,333.00) | \$ | 48,098,648.57 | \$ | 24,503,315.57 | \$ | 17,374,603 |
| | | | | | | \$ | 534,207.46 | \$ | 378,791 |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | Ť | 334,207.40 | Ÿ | 0.0, |
| | | | | | | | | | |
| | SCHEDULE 16 & 17 (FOR RETAIL) SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 88,105.33 | \$ | 62,472 |

True-up Report Part B, Attachment 2

| lergy and Loss Charges 1 a Day-Ahead Asset Energy Amount - Energy Component 1 c Day-Ahead Asset Energy Amount - Loss Component 3 Day-Ahead Financial Bilateral Transaction Loss Amount 5 a Day-Ahead Non-Asset Energy Amount - Energy Component 5 c Day-Ahead Non-Asset Energy Amount - Loss Component 6 Day-Ahead Non-Asset Energy Amount - Loss Component 7 Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Losses Rebate on Option B Grandfathered Agreements 1 Real-Time Asset Energy Amount - Loss Component 2 Real-Time Distribution of Losses Amount 3 Real-Time Distribution of Losses Amount 6 Real-Time Financial Bilateral Transaction Loss Amount 8 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 1 Real-time Non-Asset Energy Amount - Energy Component 2 Real-Time Non-Asset Energy Amount - Energy Component 1 Day-Ahead Asset Energy Amount - Loss Component 1 Day-Ahead Asset Energy Amount - Congestion Component 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Financial Bilateral Transaction Component 2 Congestion Rebate on Carve-Out Grandfathered Agreements 3 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Financial Bilateral Transaction Congestion Component 1 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Full Funding Guarantee Amount 2 Financial Transmission Rights Full Funding Guarantee Amount | 2 A S S S S S S S S S S S S S S S S S S | (11,967,026.42) 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.60) 71,002.67 - 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ \$ \$ \$ \$ | 22,280,154.94 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 10,313,128.52 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (2,447,092.15) 85,976.92 (1,382,854.66) | \$ \$ \$ \$ \$ \$ \$ | 7,303,891. 4,593,794. (1,671. (6,817,793. 731,499. |
|--|---|--|--|--|--|---|--|--|
| rergy and Loss Charges 1 a Day-Ahead Asset Energy Amount - Energy Component 1 c Day-Ahead Asset Energy Amount - Loss Component 3 Day-Ahead Financial Bilateral Transaction Loss Amount 5 a Day-Ahead Non-Asset Energy Amount - Energy Component 5 c Day-Ahead Non-Asset Energy Amount - Loss Component 7 Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Losses Rebate on Option B Grandfathered Agreements 3 a Real-Time Asset Energy Amount - Energy Component 4 Real-Time Asset Energy Amount - Loss Component 5 c Real-Time Distribution of Losses Amount 6 Real-Time Distribution of Losses Amount 7 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 8 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Non-Asset Energy Amount - Loss Component 1 Real-Time Non-Asset Energy Amount - Energy Component 2 Real-Time Non-Asset Energy Amount - Loss Component 2 Real-Time Non-Asset Energy Amount - Loss Component 3 Day-Ahead Asset Energy Amount - Congestion Component 4 Day-Ahead Non-Asset Energy Amount - Congestion Amount 5 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Corye-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Corye-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Corye-Out Grandfathered Agreements 1 Real-Time Financial Bilateral Transaction Congestion Amount 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Charges 8 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount | \$ | (11,967,026.42) 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.60) 71,002.67 - 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (2,447,092.15) 85,976.92 | \$ \$ \$ \$ \$ \$ \$ | 4,593,794. (1,671. (6,817,793. 731,499. |
| 1 a Day-Ahead Asset Energy Amount - Energy Component 1 c Day-Ahead Asset Energy Amount - Loss Component 3 Day-Ahead Non-Asset Energy Amount - Energy Component 5 a Day-Ahead Non-Asset Energy Amount - Energy Component 5 c Day-Ahead Non-Asset Energy Amount - Loss Component 6 Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements 7 Day-Ahead Losses Rebate on Option B Grandfathered Agreements 8 a Real-Time Asset Energy Amount - Energy Component 8 acal-Time Asset Energy Amount - Loss Component 9 Call-Time Asset Energy Amount - Loss Component 1 Real-Time Distribution of Losses Amount 1 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Non-Asset Energy Amount - Energy Component 2 Real-Time Non-Asset Energy Amount - Loss Component 1 Real-Time Non-Asset Energy Amount - Loss Component 1 Day-Ahead Asset Energy Amount - Congestion Component 2 Day-Ahead Non-Asset Energy Amount - Congestion Component 2 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 3 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 4 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 5 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 7 Real-Time Financial Bilateral Transaction Congestion Amount 8 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Financial Bilateral Transaction Congestion Component 9 Real-Time Financial Bilateral Transaction Congestion Amount 9 Financial Transmission Rights Hourly Allocation Amount 9 Financial Transmission Rights Hourly Allocation Amount 9 Financial Transmission Rights Yearly Allocation Amount 9 Financial Transmission Rights Yearly Allocation Amount | \$ | 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.66) 71,002.67 - 186,071.21 662.77 0.14 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (2,447,092.15) 85,976.92 | \$ \$ \$ \$ \$ \$ \$ | 4,593,794. (1,671. (6,817,793. 731,499. |
| 1 c Day-Ahead Asset Energy Amount - Loss Component 3 Day-Ahead Financial Bilateral Transaction Loss Amount 5 a Day-Ahead Non-Asset Energy Amount - Energy Component 5 c Day-Ahead Non-Asset Energy Amount - Loss Component 7 Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Losses Rebate on Option B Grandfathered Agreements 3 a Real-Time Asset Energy Amount - Energy Component 3 c Real-Time Asset Energy Amount - Loss Component 4 Real-Time Distribution of Losses Amount 5 Real-Time Distribution of Losses Amount 6 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Non-Asset Energy Amount - Energy Component 2 Real-Time Non-Asset Energy Amount - Energy Component 1 Real-Time Non-Asset Energy Amount - Loss Component 1 Real-Time Non-Asset Energy Amount - Loss Component 1 Day-Ahead Asset Energy Amount - Congestion Component 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Corve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Corve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Corve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Corve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Corve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Corve-Out Grandfathered Agreements 9 Real-Time Financial Bilateral Transaction Congestion Component 9 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Non-Asset Energy Amount - Congestion Component 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Gran | \$ | 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.66) 71,002.67 - 186,071.21 662.77 0.14 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - - - - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 6,486,459.85 (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (2,447,092.15) 85,976.92 | \$ \$ \$ \$ \$ \$ \$ | 4,593,794. (1,671. (6,817,793. 731,499. |
| Day-Ahead Financial Bilateral Transaction Loss Amount Day-Ahead Non-Asset Energy Amount - Energy Component Day-Ahead Non-Asset Energy Amount - Loss Component Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Energy Component Real-Time Asset Energy Amount - Loss Component Real-Time Distribution of Losses Amount Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Not inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component Real-Time Non-Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Composition Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Amount Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Fransaction Amount Financial Transmission Rights Fransaction Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.66) 71,002.67 - 186,071.21 662.77 0.14 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,701,231.14 - - - 2,701,231.14 - - - | \$ \$ \$ \$ \$ \$ \$ \$ | (2,359.55) (9,626,755.70) 1,032,881.20 2,359.55 - (2,447,092.15) 85,976.92 | \$ \$ \$ \$ \$ \$ | (1,671.4 (6,817,793.4 (731,499.4 |
| 5 a Day-Ahead Non-Asset Energy Amount - Energy Component 5 c Day-Ahead Non-Asset Energy Amount - Loss Component 7 Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Losses Rebate on Option B Grandfathered Agreements 3 a Real-Time Asset Energy Amount - Energy Component 3 c Real-Time Asset Energy Amount - Loss Component 4 Real-Time Distribution of Losses Amount 6 Real-Time Financial Bilateral Transaction Loss Amount 8 Real-Time Financial Bilateral Transaction Loss Amount 9 Real-Time Non-Asset Energy Amount - Energy Component 1 Real-Time Non-Asset Energy Amount - Energy Component 2 c Real-Time Non-Asset Energy Amount - Loss Component 1 mgestion Related Charges 1 b Day-Ahead Asset Energy Amount - Congestion Component 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Real-Time Financial Bilateral Transaction Component 1 Real-Time Financial Bilateral Transaction Component 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Non-Asset Energy Amount - Congestion Component 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Non-Asset Energy Amount - Congestion Component 1 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Monthly Allocation Amount 2 Financial Transmission Rights Yearly Allocation Amount | \$ | (9,626,755.70) 1,032,881.20 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.66) 71,002.67 - 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ \$ \$ \$ \$ | 2,701,231.14 - - 2,701,231.14 - - - | \$ \$ \$ \$ \$ \$ \$ | (9,626,755.70) 1,032,881.20 2,359.55 - (2,447,092.15) 85,976.92 | \$ \$ \$ \$ \$ | (6,817,793. 731,499. |
| 5 c Day-Ahead Non-Asset Energy Amount - Loss Component 7 Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Losses Rebate on Option B Grandfathered Agreements 3 a Real-Time Asset Energy Amount - Energy Component 4 Real-Time Distribution of Losses Amount 6 Real-Time Financial Bilateral Transaction Loss Amount 8 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 1 Real-time Non-Asset Energy Amount - Energy Component 2 Real-Time Non-Asset Energy Amount - Energy Component 2 Real-Time Non-Asset Energy Amount - Energy Component 9 Real-Time Non-Asset Energy Amount - Loss Component 1 Day-Ahead Asset Energy Amount - Congestion Component 9 Day-Ahead Financial Bilateral Transmission Congestion Amount 9 Day-Ahead Non-Asset Energy Amount - Congestion Component 9 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Component Congestion Component 9 Real-Time Financial Bilateral Transaction Congestion Amount 9 Real-Time Financial Bilateral Transaction Component 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 2 Real-Time Non-Asset Energy Amount - Congestion Component 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 1 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 2 Real-Time Non-Asset Energy Amount - Congestion Component 2 Real-Time Non-Asset Energy Amount - Congestion Component 3 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 3 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 3 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 4 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 5 Real-Time Non-Asset Energy Amount - Congestion Component 6 Real-Time Non-Asset Energy Amount - Congestion Amount 7 Financial Transmission Rights Monthly Allocation Amount 8 Financial Transmission Rights Yearly Alloca | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,032,881.20 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.66) 71,002.67 - 186,071.21 662.77 0.14 | \$ \$ \$ \$ \$ \$ \$ | 2,701,231.14 - - - - - | \$ \$ \$ \$ \$ \$ | 1,032,881.20 2,359.55 - (2,447,092.15) 85,976.92 | \$ \$ \$ \$ | 731,499 |
| Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Component Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2,359.55 - (5,148,323.29) 85,976.92 (1,382,854.66) 71,002.67 - 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ \$ \$ \$ \$ | 2,701,231.14 - - - - | \$ \$ \$ \$ \$ \$ | 2,359.55 - (2,447,092.15) 85,976.92 | \$ \$ \$ \$ | |
| Day-Ahead Losses Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Energy Component Real-Time Distribution of Losses Amount Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Day-Ahead Congestion Rebate on Component Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Component Real-Time Financial Bilateral Transaction Component Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (5,148,323,29) 85,976.92 (1,382,854.66) 71,002.67 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ \$ \$ \$ | 2,701,231.14 - - - - | \$ \$ \$ \$ \$ | (2,447,092.15) 85,976.92 | \$ \$ \$ | |
| 3 c Real-Time Asset Energy Amount - Loss Component 4 Real-Time Distribution of Losses Amount 6 Real-Time Financial Bilateral Transaction Loss Amount 8 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 1 Real-time Net inadvertent Distribution 2 a Real-Time Non-Asset Energy Amount - Energy Component 2 c Real-Time Non-Asset Energy Amount - Loss Component 8 Real-Time Non-Asset Energy Amount - Loss Component 9 Day-Ahead Asset Energy Amount - Congestion Component 9 Day-Ahead Financial Bilateral Transmission Congestion Amount 9 Day-Ahead Non-Asset Energy Amount - Congestion Component 9 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Financial Bilateral Transaction Congestion Amount 9 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Non-Asset Energy Amount - Congestion Component 9 Real-Time Non-Asset Energy Amount - Congestion Component 9 Real-Time Non-Asset Energy Amount - Congestion Component 9 Related Charges 9 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Transaction Amount 1 Financial Transmission Rights Yearly Allocation Amount 1 Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 85,976.92 (1,382,854.66) 71,002.67 | \$ \$ \$ \$ \$ | 2,701,231.14 | \$ \$ \$ | 85,976.92 | \$ | |
| 3 c Real-Time Asset Energy Amount - Loss Component 4 Real-Time Distribution of Losses Amount 6 Real-Time Financial Bilateral Transaction Loss Amount 8 Real-Time Losses Rebate on Carve-Out Grandfathered Agreements 1 Real-time Net inadvertent Distribution 2 a Real-Time Non-Asset Energy Amount - Energy Component 2 c Real-Time Non-Asset Energy Amount - Loss Component 1 Day-Ahead Non-Asset Energy Amount - Congestion Component 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Real-Time Asset Energy Amount - Congestion Component 9 Real-Time Financial Bilateral Transaction Congestion Amount 9 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Non-Asset Energy Amount - Congestion Component 9 Real-Time Non-Asset Energy Amount - Congestion Component 9 Real-Time Non-Asset Energy Amount - Congestion Component 1 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount 3 Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | (1,382,854.66) 71,002.67 - 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ \$ | - - - - | \$ \$ | 85,976.92 | \$ | (1,733,062 |
| Real-Time Financial Bilateral Transaction Loss Amount Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-Time Net inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Day-Ahead Time Non-Asset Energy Amount - Loss Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 71,002.67 - 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ \$ | - - - | \$ | (1,382,854.66) | | 60,889 |
| Real-Time Losses Rebate on Carve-Out Grandfathered Agreements Real-time Net inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Component Day-Ahead Charges Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Financial Transmission Rebate on Carve-Out Grandfathered Agreements Related Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ \$ | - - - | | | \$ | (979,355 |
| Real-Time Net inadvertent Distribution Real-Time Non-Asset Energy Amount - Energy Component Real-Time Non-Asset Energy Amount - Loss Component Day-Ahead Asset Energy Amount - Congestion Component Day-Ahead Financial Bilateral Transmission Congestion Amount Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Related Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 186,071.21 662.77 0.14 11,067,047.64 (14,831.27) | \$ \$ | - | ç | 71,002.67 | \$ | 50,285 |
| 2 a Real-Time Non-Asset Energy Amount - Energy Component 2 c Real-Time Non-Asset Energy Amount - Loss Component 2 c Real-Time Non-Asset Energy Amount - Loss Component 3 Day-Ahead Asset Energy Amount - Congestion Component 4 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 8 b Real-Time Asset Energy Amount - Congestion Component 7 Real-Time Financial Bilateral Transaction Congestion Amount 8 Related Charges 8 Financial Transmission Rights Hourly Allocation Amount 9 Financial Transmission Rights Transaction Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount 3 Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ \$ | 662.77 0.14 11,067,047.64 (14,831.27) | \$ | - | ي | - | \$ | |
| 2 c Real-Time Non-Asset Energy Amount - Loss Component ngestion Related Charges 1 b Day-Ahead Asset Energy Amount - Congestion Component 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Real-Time Asset Energy Amount - Congestion Component 1 Real-Time Financial Bilateral Transaction Congestion Amount 1 Real-Time Non-Asset Energy Amount - Congestion Component 1 Related Charges 8 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount 3 Financial Transmission Rights Yearly Allocation Amount 5 Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ | 0.14 11,067,047.64 (14,831.27) | | | \$ | 186,071.21 | \$ | 131,778 |
| ngestion Related Charges 1 b Day-Ahead Asset Energy Amount - Congestion Component 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 5 Real-Time Asset Energy Amount - Congestion Component 6 Real-Time Financial Bilateral Transaction Congestion Amount 7 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 2 b Real-Time Non-Asset Energy Amount - Congestion Component R Related Charges 8 Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ \$ \$ | 11,067,047.64 (14,831.27) | \$ | - | \$ | 662.77 | \$ | 469 |
| 1 b Day-Ahead Asset Energy Amount - Congestion Component 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 b Real-Time Asset Energy Amount - Congestion Component 9 Real-Time Financial Bilateral Transaction Congestion Amount 9 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 2 b Real-Time Non-Asset Energy Amount - Congestion Component 9 Related Charges 9 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount 3 Financial Transmission Rights Yearly Allocation Amount 4 Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ | (14,831.27) | | - | \$ | 0.14 | \$ | 0 |
| 2 Day-Ahead Financial Bilateral Transmission Congestion Amount 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component 6 Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements 8 Day-Ahead Congestion Rebate on Option B Grandfathered Agreements 9 Real-Time Asset Energy Amount - Congestion Component 9 Real-Time Financial Bilateral Transaction Congestion Amount 9 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 9 Real-Time Non-Asset Energy Amount - Congestion Component 9 Related Charges 9 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Transaction Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ | (14,831.27) | | | | | | |
| 5 b Day-Ahead Non-Asset Energy Amount - Congestion Component Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements b Real-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Related Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ \$ | , | \$ | - | \$ | 11,067,047.64 | \$ | 7,837,826 |
| Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Beal-Time Non-Asset Energy Amount - Congestion Component Real-Time Non-Asset Energy Amount - Congestion Component Related Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ \$ | 2,578,584.25 | \$ | - | \$ | (14,831.27) | \$ | (10,503 |
| Day-Ahead Congestion Rebate on Option B Grandfathered Agreements Real-Time Asset Energy Amount - Congestion Component Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Real-Time Non-Asset Energy Amount - Congestion Component Related Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ | | \$ | - | \$ | 2,578,584.25 | \$ | 1,826,186 |
| 8 b Real-Time Asset Energy Amount - Congestion Component 5 Real-Time Financial Bilateral Transaction Congestion Amount 7 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 8 b Real-Time Non-Asset Energy Amount - Congestion Component 8 Related Charges 8 Financial Transmission Rights Hourly Allocation Amount 9 Financial Transmission Rights Monthly Allocation Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount | \$ \$ \$ | 14,831.27 | \$ | - | \$ | 14,831.27 | \$ | 10,503 |
| 3 b Real-Time Asset Energy Amount - Congestion Component 5 Real-Time Financial Bilateral Transaction Congestion Amount 7 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 2 b Real-Time Non-Asset Energy Amount - Congestion Component R Related Charges 8 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount 2 Financial Transmission Rights Yearly Allocation Amount | \$ | - | \$ | - | \$ | - | \$ | |
| Real-Time Financial Bilateral Transaction Congestion Amount Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements Beal-Time Non-Asset Energy Amount - Congestion Component Related Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount Financial Transmission Rights Yearly Allocation Amount | \$ | 753,074.93 | \$ | - | \$ | 753,074.93 | \$ | 533,337 |
| 7 Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements 2 b Real-Time Non-Asset Energy Amount - Congestion Component R Related Charges 8 Financial Transmission Rights Hourly Allocation Amount 1 Financial Transmission Rights Monthly Allocation Amount 2 Financial Transmission Rights Yearly Allocation Amount 3 Financial Transmission Rights Yearly Allocation Amount | | _ | \$ | - | \$ | - | \$ | |
| R Related Charges 8 Financial Transmission Rights Hourly Allocation Amount 9 Financial Transmission Rights Monthly Allocation Amount 1 Financial Transmission Rights Transaction Amount 2 Financial Transmission Rights Yearly Allocation Amount | ę | - | \$ | - | \$ | - | \$ | |
| R Related Charges Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | ಾ | 0.01 | \$ | - | \$ | 0.01 | \$ | (|
| Financial Transmission Rights Hourly Allocation Amount Financial Transmission Rights Monthly Allocation Amount Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | | | | | | | | |
| Financial Transmission Rights Transaction Amount Financial Transmission Rights Yearly Allocation Amount | \$ | (251,163.01) | \$ | - | Ş | (251,163.01) | \$ | (177,876 |
| 2 Financial Transmission Rights Yearly Allocation Amount | \$ | (29,038.67) | \$ | - | \$ | (29,038.67) | \$ | (20,565 |
| 5 | \$ | - | \$ | - | \$ | - | \$ | |
| Financial Transmission Rights Full Funding Guarantee Amount | \$ | - | \$ | - | \$ | - | \$ | |
| | \$ | 157,510.41 | \$ | - | \$ | 157,510.41 | \$ | 111,550 |
| 7 Financial Transmission Guarantee Uplift Amount | \$ | (155,562.07) | \$ | - | \$ | (155,562.07) | \$ | (110,171 |
| 8 Financial Transmission Rights Monthly Transaction Amount | \$ | _ | \$ | - | \$ | - | \$ | |
| lift (RNU) Charges | | | | | | | | |
| Real-Time Revenue Neutrality Uplift Amount | Ş | (571,997.75) | \$ | - | \$ | (571,997.75) | \$ | (405,096 |
| venue Sufficiency Guarantee (RSG) Charges | | | | | | | | |
| Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | 132,559.47 | \$ | - | \$ | 132,559.47 | \$ | 93,880 |
| Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | (206,009.56) | \$ | 172,537.37 | \$ | (33,472.19) | \$ | (23,705 |
| Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | 424,622.29 | \$ | - | \$ | 424,622.29 | \$ | 300,723 |
| 5 Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | (600,184.88) | \$ | 327,252.99 | \$ | (272,931.89) | \$ | (193,293 |
| Real Time Price Volatility Make Whole Payment | \$ | (227,617.40) | \$ | 71,954.78 | \$ | (155,662.62) | \$ | (110,242 |
| rket Administration Charges | | | | | | | | |
| Day-Ahead Market Administration Amount | \$ | 676,989.99 | \$ | (82,411.08) | \$ | 594,578.91 | \$ | 421,088 |
| Real-Time Market Administration Amount | \$ | 91,207.09 | \$ | (12,582.07) | \$ | 78,625.02 | \$ | 55,683 |
| Financial Transmission Rights Market Administration Amount | \$ | 21,607.54 | \$ | - | \$ | 21,607.54 | \$ | 15,302 |
| 3 Day-Ahead Schedule 24 Allocation Amount | \$ | 103,151.64 | \$ | (13,008.11) | \$ | 90,143.53 | \$ | 63,840 |
| 4 Real -Time Schedule 24 Allocation Amount | \$ | (89,557.94) | \$ | 98,577.03 | \$ | 9,019.09 | \$ | 6,387 |
| 5 Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | |
| tual Energy Charges | | | | | | | | |
| 2 Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 7 Real-Time Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| ner MISO Charges | | | | | | | | |
| Real-Time Miscellaneous Amount | \$ | (12,536,894.19) | \$ | 12,597,234.90 | \$ | 60,340.71 | \$ | 42,734 |
| Real-Time Uninstructed Deviation Amount | \$ | - | \$ | - | \$ | - | \$ | |
| ction Revenue Rights (ARR) | | | | | | | | |
| Auction Revenue Rights - FTR Auction Transactions | \$ | 9,883,261.64 | \$ | - | \$ | 9,883,261.64 | \$ | 6,999,453 |
| Auction Revenue Rights - Monthly ARR Revenue | \$ | (9,903,009.97) | \$ | 38,219.94 | \$ | (9,864,790.03) | \$ | (6,986,372 |
| Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (497,086.80) | \$ | - | \$ | (497,086.80) | \$ | (352,043 |
| 2 Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | | | - | \$ | 240,884.14 | \$ | 170,597 |
| | | | | | | | | |
| TOTAL MISO CHARGES | | (19,199,526.51) | \$ | 38,179,161.83 | \$ | 18,979,635.32 | \$ | 13,441,623 |
| SCHEDULE 16 & 17 (FOR RETAIL) | \$ | | | | 6 | COA 044 45 | \$ | 492,074 |
| SCHEDULE 24 (FOR RETAIL) | \$ | | | | \$ | 694,811.47 | Ψ | |
| | \$ | | | | \$ | 99,162.62 | \$ | 70,228 |
| TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | | | | | | | | 70,228 |

True-up Report Part B, Attachment 2 Page 12 of 13

| | | _ | | | | | | _ | Page 12 of 1 |
|------------|---|----|---------------------------------|----|---------------|----------|-------------------------------|----------|-----------------------------|
| | | L | System | | Intersystem | | System Retail | Mi | innesota Retai |
| 2 | December 2022 | Α | ctual | | | | | | |
| 0. | and Loss Charges | | (27,000,400,57) | | 41 107 700 00 | e | 14 207 270 51 | | 10.022.041.5 |
| 1 a 1 c | Day-Ahead Asset Energy Amount - Energy Component Day-Ahead Asset Energy Amount - Loss Component | \$ | (26,900,400.57) 8,188,431.65 | \$ | 41,100,780.08 | \$ \$ | 14,206,379.51 8,188,431.65 | \$ \$ | 10,023,041.5 5,777,192.5 |
| 3 | Day-Ahead Asset Energy Amount - Loss Component Day-Ahead Financial Bilateral Transaction Loss Amount | \$ | , , | | - | \$ | 5,716.43 | \$ | 4,033.1 |
| 5 a | Day-Ahead Non-Asset Energy Amount - Energy Component | \$ | | | | \$ | (11,457,488.91) | \$ | (8,083,613.9 |
| 5 c | Day-Ahead Non-Asset Energy Amount - Loss Component | \$ | | \$ | | \$ | 790,145.55 | \$ | 557,472.2 |
| 7 | Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | | | \$ | (5,716.43) | \$ | (4,033.1 |
| 9 | Day-Ahead Losses Rebate on Option B Grandfathered Agreements | \$ | | \$ | _ | \$ | (5,710.15) | \$ | - (1,000. |
| 13 a | Real-Time Asset Energy Amount - Energy Component | \$ | | | 13,458,429.18 | \$ | 14,574,441.26 | \$ | 10,282,720.5 |
| 13 с | Real-Time Asset Energy Amount - Loss Component | \$ | | | - | \$ | 161,995.38 | \$ | 114,292. |
| 14 | Real-Time Distribution of Losses Amount | \$ | | | - | \$ | (2,144,781.20) | \$ | (1,513,209.6 |
| 16 | Real-Time Financial Bilateral Transaction Loss Amount | \$ | | \$ | _ | \$ | 978,286.28 | \$ | 690,211. |
| 18 | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | - | \$ | - |
| 21 | Real-time Net inadvertent Distribution | \$ | | | - | \$ | 606,843.10 | \$ | 428,146. |
| 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | | | - | \$ | (264,209.08) | \$ | (186,407. |
| 22 с | Real-Time Non-Asset Energy Amount - Loss Component | \$ | , | | - | \$ | 36,441.54 | \$ | 25,710.0 |
| | tion Related Charges | Ė | | Ė | | Ė | | | ,- |
| 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 11,594,354.87 | s | | \$ | 11,594,354.87 | \$ | 8,180,177.0 |
| 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | | | _ | \$ | (19,113.41) | \$ | (13,485. |
| 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | , | | - | \$ | 2,462,574.40 | \$ | 1,737,422.0 |
| 6 | Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | 19,113.41 | \$ | 13,485. |
| 8 | Day-Ahead Congestion Rebate on Option B Grandfathered Agreements | \$ | | \$ | _ | \$ | - | \$ | -, |
| 13 b | Real-Time Asset Energy Amount - Congestion Component | \$ | | \$ | _ | \$ | 609,641.96 | \$ | 430,121. |
| 15 | Real-Time Financial Bilateral Transaction Congestion Amount | \$ | | \$ | _ | \$ | - | \$ | _ |
| 17 | Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements | \$ | | \$ | - | \$ | _ | \$ | - |
| 22 b | Real-Time Non-Asset Energy Amount - Congestion Component | \$ | | | _ | \$ | 139,082.11 | \$ | 98,126. |
| | elated Charges | Ė | , | Ė | | Ė | , | | , |
| 28 | Financial Transmission Rights Hourly Allocation Amount | s | (6,612,732.28) | \$ | - | \$ | (6,612,732.28) | \$ | (4,665,487. |
| 30 | Financial Transmission Rights Monthly Allocation Amount | \$ | | | _ | \$ | (95,289.88) | \$ | (67,229. |
| 31 | Financial Transmission Rights Transaction Amount | \$ | | \$ | - | \$ | - | \$ | - |
| 32 | Financial Transmission Rights Yearly Allocation Amount | \$ | - | \$ | _ | \$ | - | \$ | - |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | (120,099.63) | \$ | | \$ | (120,099.63) | \$ | (84,734. |
| 37 | Financial Transmission Guarantee Uplift Amount | \$ | | \$ | - | \$ | 123,032.52 | \$ | 86,803. |
| 38 | Financial Transmission Rights Monthly Transaction Amount | \$ | | \$ | _ | \$ | - | \$ | - |
| plift (| RNU) Charges | | | | | | | | |
| 23 | Real-Time Revenue Neutrality Uplift Amount | Ş | (1,961,545.52) | \$ | - | \$ | (1,961,545.52) | \$ | (1,383,931. |
| evenu | e Sufficiency Guarantee (RSG) Charges | | | | | | | | |
| 10 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | Ş | 179,197.28 | \$ | - | \$ | 179,197.28 | \$ | 126,429. |
| 11 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | (121,230.65) | \$ | 53,109.91 | \$ | (68,120.74) | \$ | (48,061. |
| 24 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | \$ | 2,081,269.37 | \$ | - | \$ | 2,081,269.37 | \$ | 1,468,400. |
| 25 | Real-Time Revenue Sufficiency Make Whole Payment Amount | \$ | (1,946,929.08) | \$ | 666,830.73 | \$ | (1,280,098.35) | \$ | (903,149. |
| 43 | Real Time Price Volatility Make Whole Payment | \$ | (640,622.73) | \$ | 115,246.07 | \$ | (525,376.66) | \$ | (370,669. |
| larket | Administration Charges | | | | | | | | |
| 4 | Day-Ahead Market Administration Amount | \$ | 569,229.19 | \$ | (71,896.92) | \$ | 497,332.27 | \$ | 350,883. |
| 19 | Real-Time Market Administration Amount | \$ | 54,195.25 | \$ | (14,999.54) | \$ | 39,195.71 | \$ | 27,653. |
| 29 | Financial Transmission Rights Market Administration Amount | \$ | 19,853.54 | \$ | - | \$ | 19,853.54 | \$ | 14,007. |
| 33 | Day-Ahead Schedule 24 Allocation Amount | \$ | 108,675.75 | \$ | (13,507.53) | \$ | 95,168.22 | \$ | 67,144. |
| 34 | Real -Time Schedule 24 Allocation Amount | \$ | (104,275.44) | \$ | 115,736.54 | \$ | 11,461.10 | \$ | 8,086. |
| 35 | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | - |
| irtual : | Energy Charges | | | | | | | | |
| 12 | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 27 | Real-Time Virtual Energy Amount | \$ | ; - | \$ | - | \$ | - | \$ | - |
| ther N | MISO Charges | | | | | | | | |
| 20 | Real-Time Miscellaneous Amount | \$ | (13,812,400.78) | \$ | 13,017,142.73 | \$ | (795,258.05) | \$ | (561,079. |
| 26 | Real-Time Uninstructed Deviation Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| uction | Revenue Rights (ARR) | | | | | | | | |
| 39 | Auction Revenue Rights - FTR Auction Transactions | \$ | 15,777,513.01 | \$ | - | \$ | 15,777,513.01 | \$ | 11,131,524. |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | \$ | | | 175,272.90 | \$ | (15,607,242.17) | \$ | (11,011,393. |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | \$ | | | - | \$ | (683,288.39) | \$ | (482,081. |
| 12 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | , | | - | \$ | 89,943.30 | \$ | 63,457. |
| | | | | | | | | | |
| | TOTAL MISO CHARGES | \$ | (36,961,091.08) | \$ | 68,608,144.15 | \$ | 31,647,053.07 | \$ | 22,327,977. |
| | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 556,381.52 | \$ | 392,544. |
| | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 106,629.32 | \$ | 75,230. |
| | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | Ш |) | | | \$ | 30,984,042.23 | \$ | 21,860,203. |
| | | (| | - | | <u> </u> | , , | | ,,=00. |

True-up Report Part B, Attachment 2 Page 13 of 13

| 1. Dec Alexel Amer Energy Amount - Energy Component 5 (278-98), 46-289 5 04,800,500-58 225,902,002.05 161,190, 161,190 | | | _ | | | | | | _ | Page 13 of |
|--|-----------|--|----|-------------------|----|----------------|-----|----------------|----|---------------|
| | | | Δ. | - | | Intersystem | | System Retail | M | innesota Reta |
| 1. De-Abrel Amer Energy Component \$ 0,759,981,462.9 \$ 0,980,950.5 \$ 0,259,020.50 \$ 1,611,96 \$ 1,6 De-Abrel Amer Energy Amount - Conference \$ 0,772,225.99 \$ 1,8 0,9 0,9 0,9 0,9 0,9 0,9 0,9 0,9 0,9 0,9 | Zmosnovi. | | Ac | ctual | | | | | | |
| C. Dev-Abard Americ Energy Annount - Lone Component \$ 8,844-240.8 \$, 07,223.99 \$ (0.31).25 | | | e | (270 000 146 20) | e | E04 900 E06 E4 | e e | 225 002 360 26 | e | 161 106 617 9 |
| Section Sect | | | | | | 304,600,306.34 | | | | |
| 50 Dec-Abead Non-Aust Forceg Amount - Energy Component \$ 2002-4006,240 \$ \$ 2002-250,55 \$ 14,540,57 \$ \$ 2002-250,55 \$ 14,540,57 \$ \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 \$ 16,50 \$ 2002-250,55 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002-250,55 \$ 2002- | | | | | | - | | | | (122,894.8 |
| Section Sect | | | | | | - | | | | |
| 7 | | | | | | - | | | | |
| 9 Dys-Abrael Louise Return on Cyption B Grandfalthered Agreements \$ 0,000,000,000,000,000,000,000,000,000 | | - | | | | - | | | | |
| 33 Red-Time Asser Energy Amount - Energy Component \$ (9,709,956.3) \$ 15,010,290,44 \$ 41,841,3579 \$ 29,255. 34 Read Time Distribution of Loses Amount \$ (27,921,110,60) \$. \$ (27,921,110,60) \$ (9,957, | | | | 22,925.83 | | - | | 22,925.85 | | 16,359. |
| 1.5 Red-Time: Asser Energy Amount - Lous Component \$ 1.994,137.6 \$ 975, | | | | - (0.7.0.05.6.25) | | - | | - | | - |
| 14 | | | | | | 51,610,296.04 | | | | 29,855,913. |
| 16 Real-Time Fauncial Blaneal Transaction Lors Amount S 1,117,621.83 S S 1,177,621.83 S 777, | | | | | | - | | | | 995,293. |
| 18 | | | | (, , , , | | - | | | | (19,857,953. |
| 22 Real-Time Non-Asset Energy Amount - Energy Component \$ 2,975,899.28 \$. \$ 2,975,899.28 \$. \$ 2,275,809.28 \$ 1,708. 22 Real-Time Non-Asset Energy Amount - Loss Component \$ 2,475,849.28 \$. \$ 2,275,809.28 \$ 1,708. 23 Real-Time Non-Asset Energy Amount - Loss Component \$ 2,475,449.25 \$. \$ 2,475,809.28 \$ 1,708. 24 Real-Time Non-Asset Energy Amount - Loss Component \$ 2,275,709.89 \$. \$ 2,275,709.89 \$ 1,709. 25 Doy-Aband Seat Energy Amount - Congestion Component \$ 2,275,709.89 \$. \$ 2,275,709.89 \$ 107,709. 26 Doy-Aband Congestion Related Component \$ 4,256,4109.3 \$. \$ \$ 24,256,4109.3 \$. \$ \$ 3,356.6 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ \$ 2,260.70 \$ 0. \$ | | Real-Time Financial Bilateral Transaction Loss Amount | | 1,117,621.83 | \$ | - | | 1,117,621.83 | | 797,498. |
| 22.2 Real-Time Non-Asset Energy Amount - Energy Component \$ 2,993,890,28 \$. \$ 2,93,890,28 \$. \$ 1,708, 200,200,200,200,200,200,200,200,200,20 | | Real-Time Losses Rebate on Carve-Out Grandfathered Agreements | | | | - | | | | (162. |
| 22 Real-Time Non-Asset Energy Amount - Loss Component \$ 41,644.48 \$ 22,000 \$ 20,000 \$ 2 | 21 | Real-time Net inadvertent Distribution | \$ | 986,813.84 | \$ | - | | 986,813.84 | \$ | 704,158. |
| 1 | 22 a | Real-Time Non-Asset Energy Amount - Energy Component | \$ | 2,393,809.28 | \$ | - | \$ | 2,393,809.28 | \$ | 1,708,144. |
| 15 Day-Ahead Asser Energy Amount - Congestion Component \$ 241,014,902.53 \$. \$ \$ 241,014,402.53 \$ 17,909, \$ \$ 0.73,709.89 \$ 17,909, \$ \$ 0.73,709.89 \$ 17,909, \$ \$ 0.73,709.89 \$ 17,909, \$ \$ 0.73,709.89 \$ 17,909, \$ \$ 0.73,709.89 | 22 c | Real-Time Non-Asset Energy Amount - Loss Component | \$ | 41,644.48 | \$ | - | \$ | 41,644.48 | \$ | 29,716. |
| 2 Dys-Abcad Financial Bilareal Transmission Congestion Component \$ (273,709.89) \$ (.95, 5) Dys-Abcad Congestion Rature of Corevo Confignification Component \$ (.95,66,109.05) \$. \$ (.95,66, | ongest | tion Related Charges | | | | | | | | |
| 5 Day-Ahead Non-Asset Energy Amount - Congestion Component \$ 49,566,109.93 \$ \$ 49,566,109.93 \$ \$ 53,348; 66 Boy-Ahead Congestion Rebute on Option B Grandfathered Agreements \$ | 1 b | Day-Ahead Asset Energy Amount - Congestion Component | \$ | 241,014,492.53 | \$ | - | \$ | 241,014,492.53 | \$ | 171,980,146. |
| 6 Day-Ahead Congestion Rebate on Carve-Our Grandfathered Agreements 9,345.66 \$ \$ 93,345.66 \$ 6.60 | 2 | Day-Ahead Financial Bilateral Transmission Congestion Amount | \$ | (273,709.89) | \$ | - | \$ | (273,709.89) | \$ | (195,310. |
| 6 Dy-Ahead Congestion Rebate on Carve-Cour Grandfathered Agreements \$ 9,3,456.6 \$. \$ 93,345.66 \$ 5. \$ 0.95 Ahead Congestion Rebate on Cption B Grandfathered Agreements \$ 5. 5,321,796.09 \$ 5. 5,321,796.09 \$ 3,797. 5 Real-Time Financial Historian Congestion Congestion Amount \$ 2,669.76 \$. \$ 2,669.76 \$ 1.2 \$ 2, | 5 b | Day-Ahead Non-Asset Energy Amount - Congestion Component | \$ | 49,566,109.93 | \$ | _ | \$ | 49,566,109.93 | \$ | 35,368,772. |
| B | 6 | | \$ | 93,345.66 | \$ | - | \$ | 93,345.66 | \$ | 66,608. |
| 3 b Real-Time Asset Energy Amount - Congestion Component \$ 5,321,796.09 \$. \$ 5,321,796.09 \$ 3,707, \$. \$ 7,800.00 \$ 1,707, \$. \$ 7,800. | 8 | | | , <u> </u> | | _ | | · - | | · . |
| Seal-Time Financial Bilateral Transaction Congestion Amount \$ 2,669.76 \$. \$ 2,669.76 \$ 1.1; | | | | 5 321 796 69 | | | | 5 321 796 69 | | 3 797 461 |
| Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements \$ (2,669.76) \$ \$ (1); \$ (2); Real-Time Non-Asset Energy Amount - Congestion Component \$ (32,052.31) \$ \$ \$ (82,052.31) \$ (38, 058, 058) \$ (31,052.31) \$ \$ (38, 058, 058) \$ (31,052.31) \$ (38, 058, 058, 058, 058, 058, 058, 058, 05 | | | | | | | | | | 1,905. |
| 2 B Real-Time Non-Asset Energy Amount - Congession Component \$ (82,052.31) \$ \$ (82,052.31) \$ \$ (88,052.31) \$ | | 9 | | | | | | | | (1,905. |
| Related Charges Seriancial Transmission Rights Hourly Allocation Amount \$ (122,900,725,98) \$ \$ (122,900,725,98) \$ \$ (87,607,600) \$ \$ (2008, 2008) \$ \$ (| | | | | | - | | | | * * |
| Financial Transmission Rights Hourly Allocation Amount \$ (122,000,725,98) \$ (2,999,316,04) \$ (2,999, | | | ې | (82,032.31) | ş | - | Ş | (82,032.31) | ş | (58,549. |
| Financial Transmission Rights Monthly Allocation Amount \$ (2,899,316.04) \$ (1,104,329,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,632,607.88) \$ (1,638,676.09) \$ (1,989,676.88) \$ (1,638,676.09) \$ (1,989,676.88) \$ (1,638,676.09) \$ (1,989,676.88) \$ (1,9 | | - | | | | | _ | | | |
| Financial Transmission Rights Yearly Allocation Amount \$ | | | | | | - | | | | (87,697,983. |
| Financial Transmission Rights Yearly Allocation Amount \$ (1,632,060.78) \$ - \$ (1,632,060.78) \$ (1,164,66) 6 Financial Transmission Gughts Full Funding Guarantee Amount \$ 1,671,660.61 \$ - \$ 1,671,660.61 \$ 1,192, 7 Financial Transmission Gughts Monthly Transaction Amount \$ (1,538,776.09) \$ - \$ (1,588,776.09) \$ (1,988,786.09) \$ 1,192, 7 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | (2,899,316.04) | | - | | (2,899,316.04) | | (2,068,858 |
| 6 Financial Transmission Rights Full Funding Guarantee Amount \$ 1,671,660.61 \$ \$ 1,152, 60.61 \$ 1,192, 7 Financial Transmission Guarantee Uplift Amount \$ (1,538,776.69) \$ \$ (1,538,776.69) \$ (1,988, 8 Financial Transmission Rights Monthly Transaction Amount \$ (1,538,776.69) \$ \$ (1,538,776.69) \$ (1,988, 8 Financial Transmission Rights Monthly Transaction Amount \$ 8,180,334.02 \$ \$ 8,180,334.02 \$ 5,887, 8 Financial Transmission Rights Monthly Transaction Amount \$ 8,180,334.02 \$ \$ 8,180,334.02 \$ 5,887, 8 Financial Transmission Rights Monthly Transaction Amount \$ 1,842,815.41 \$ \$ 1,842,815.41 \$ 1,314, 12 Day-Ahead Revenue Sufficiency Guarantee Distribution Amount \$ 1,842,815.41 \$ \$ 1,842,815.41 \$ 1,314, 12 Day-Ahead Revenue Sufficiency Guarantee First Pass Distribution Amount \$ (3,300,557.76) \$ 1,922,460.85 \$ (1,981,906.91) \$ (1,413,406.55) \$ 8,242,406.55] \$ 7,214,645.51 \$ 5,148, 65 Real-Time Revenue Sufficiency Make Whole Payment Amount \$ (8,907,512.95) \$ 3,924,009.27 \$ (4,983,443.66) \$ (3,556,638,406.65) \$ (3,566,638,406.65) \$ (3,566,638,406.65) \$ (3,566,466.65) \$ (4,983,443.66) \$ (3,566,466.65) \$ (4,983,443.66) \$ (3,566,466.65) \$ (4,983,443.66) \$ (3,566,466.65) \$ (4,983,443.66) \$ (3,566,466.65) \$ (4,983,443.66) \$ (4 | | | | - | | - | | - | | - |
| 7 Financial Transmission Guarantee Uplift Amount \$ (1,538,776.09) \$ - \$ (1,538,776.09) \$ (1,098) 8 Financial Transmission Rights Monthly Transaction Amount \$ - \$ - \$ - \$ - \$ \$ - \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ \$ 5.00 \$ \$ \$ \$ 5.00 \$ \$ \$ \$ 5.00 \$ \$ \$ \$ \$ 5.00 \$ \$ \$ \$ \$ \$ 5.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2 | Financial Transmission Rights Yearly Allocation Amount | \$ | (1,632,060.78) | \$ | - | \$ | (1,632,060.78) | \$ | (1,164,585. |
| Financial Transmission Rights Monthly Transaction Amount \$ \$ \$ \$ \$ | 6 | Financial Transmission Rights Full Funding Guarantee Amount | \$ | 1,671,660.61 | \$ | - | \$ | 1,671,660.61 | \$ | 1,192,842 |
| ### Revenue Neutrality Uplift Amount | 7 | Financial Transmission Guarantee Uplift Amount | \$ | (1,538,776.09) | \$ | - | \$ | (1,538,776.09) | \$ | (1,098,020. |
| Real-Time Revenue Neutrality Uplift Amount \$ 8,180,334.02 \$ - \$ 8,180,334.02 \$ 5,837, **venue Sufficiency Guarantee (RSG) Charges 1,842,815.41 \$ - \$ 1,842,815.41 \$ 1,314, 1 Day-Ahead Revenue Sufficiency Guarantee Distribution Amount \$ (3,903,557.76) \$ 1,922,460.85 \$ (1,981,096.91) \$ (1,413,424.815.41 \$ 1,414.81.81.81.81.81.81.81.81.81.81.81.81.81. | 8 | Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| Name Sufficiency Guarantee (RSG) Charges Day-Ahead Revenue Sufficiency Guarantee Distribution Amount Superant Am | lift (I | RNU) Charges | | | | | | | | |
| Day-Ahead Revenue Sufficiency Guarantee Distribution Amount \$ 1,842,815.41 \$ 1.314, Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount \$ (3,903,557.76) \$ 1,922,460.85 \$ (1,981,906.91) \$ (1,413,464.81) Day-Ahead Revenue Sufficiency Guarantee First Pass Distribution Amount \$ (3,903,557.76) \$ 1,922,460.85 \$ (1,981,906.91) \$ (1,413,465.51) Seal-Time Revenue Sufficiency Guarantee First Pass Distribution Amount \$ (8,907,512.93) \$ 3,924,060.27 \$ (4,983,445.66) \$ (3,556,63) Real-Time Revenue Sufficiency Make Whole Payment Amount \$ (8,907,512.93) \$ 3,924,060.27 \$ (4,983,445.66) \$ (3,556,63) Real-Time Price Volatility Make Whole Payment Amount \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,444,644,644,644,644,644,644,644,644 | 23 | Real-Time Revenue Neutrality Uplift Amount | \$ | 8,180,334.02 | \$ | - | \$ | 8,180,334.02 | \$ | 5,837,221 |
| Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount \$ (3,903,557.76) \$ (1,922,460.85) \$ (1,981,096.91) \$ (1,413,424.84) \$ (4,413,424.84) \$ (4,413,424.84) \$ (4,413,424.84) \$ (4,413,424.84) \$ (4,413,424.84) \$ (4,413,424.84) \$ (4,413,424.84) \$ (4,413,424.84) \$ (4,414,424.84) | venue | e Sufficiency Guarantee (RSG) Charges | | | | | | | | |
| Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount \$ 7,214,645.51 \$ \$. \$ 7,214,645.51 \$ \$ 5,148, 25 Real-Time Revenue Sufficiency Make Whole Payment Amount \$ (8,907,512.93) \$ 3,924,069.27 \$ (4,983,443.66) \$ (3,556), 33 Real-Time Price Volatility Make Whole Payment \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443, 3484 * 4 Administration Charges Real-Time Market Administration Amount \$ 7,559,742.65 \$ (979,546.23) \$ 6,580,196.42 \$ 4,695, 99 Real-Time Market Administration Amount \$ 787,523.97 \$ (108,952.73) \$ 678,571.24 \$ 4484, 299 Financial Transmission Rights Market Administration Amount \$ 331,553.99 \$. \$ 331,553.99 \$ 236, 33 Day-Ahead Schedule 24 Allocation Amount \$ 1,200,279.46 \$ (156,108.93) \$ 1,044,170.53 \$ 745, 344, 344, 344, 344, 344, 344, 344, 3 | .0 | Day-Ahead Revenue Sufficiency Guarantee Distribution Amount | \$ | 1,842,815.41 | \$ | - | \$ | 1,842,815.41 | ş | 1,314,973. |
| Seal-Time Revenue Sufficiency Make Whole Payment Amount \$ (8,907,512.93) \$ 3,924,069.27 \$ (4,983,443.66) \$ (3,556) \$ (3,556) \$ (3,756) \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,445) \$ (4,983,443.66) \$ (3,556) \$ (3,556) \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,445) \$ (4,983,443.66) \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,445) \$ (4,983,443.66) \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,445) \$ (4,983,443.66) \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,445) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ (2,769,032.96) \$ (4,983,443.66) \$ | 1 | Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount | \$ | (3,903,557.76) | \$ | 1,922,460.85 | \$ | (1,981,096.91) | \$ | (1,413,646 |
| Seal-Time Revenue Sufficiency Make Whole Payment Amount \$ (8,907,512.93) \$ 3,924,069.27 \$ (4,983,443.66) \$ (3,556) \$ (3,556) \$ (3,756) \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,4764) \$ (4,983,443.66) \$ (2,023,056.28) \$ (1,443,4764) \$ (4,983,443.66) \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443,4764) \$ (4,983,474) \$ (4,993,472,80) \$ (4,993,472, | 4 | Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount | S | 7,214,645.51 | s | _ | s | 7,214,645.51 | s | 5,148,137 |
| 3 Real Time Price Volatility Make Whole Payment \$ (2,769,032.96) \$ 745,976.68 \$ (2,023,056.28) \$ (1,443, arket Administration Charges 4 Day-Ahead Market Administration Amount \$ 7,559,742.65 \$ (979,546.23) \$ 6,580,196.42 \$ 4,695, 9 Real-Time Market Administration Amount \$ 787,523.97 \$ (108,952.73) \$ 678,571.24 \$ 484, 9 Financial Transmission Rights Market Administration Amount \$ 331,553.99 \$ (108,952.73) \$ 678,571.24 \$ 484, 3 31,553.99 \$ (108,952.73) \$ 678,571.24 \$ 484, 4 (108,000) \$ 1,000 | | • | | | | 3,924,069,27 | | | | (3,556,024 |
| ### Administration Charges 4 Day-Ahead Market Administration Amount \$ 7,559,742.65 \$ (979,546.23) \$ 6,580,196.42 \$ 4,695, 9 Real-Time Market Administration Amount \$ 787,523.97 \$ (108,952.73) \$ 678,571.24 \$ 4844, 957, 959,742.65 \$ (108,952.73) \$ 678,571.24 \$ 4844, 957,745,745,745,745,745,745,745,745,745,7 | | · | | | | | | | | (1,443,587. |
| 4 Day-Ahead Market Administration Amount \$ 7,559,742.65 \$ (979,546.23) \$ 6,580,196.42 \$ 4,695, 9 Real-Time Market Administration Amount \$ 787,523.97 \$ (108,952.73) \$ 678,571.24 \$ 484, 9 Financial Transmission Rights Market Administration Amount \$ 331,553.99 \$ - \$ 331,553.99 \$ 236, 3 Day-Ahead Schedule 24 Allocation Amount \$ 1,200,279.46 \$ (156,108.93) \$ 1,044,170.53 \$ 745, 4 Real-Time Schedule 24 Allocation Amount \$ (1,106,495.99) \$ 1,197,022.24 \$ 90,526.25 \$ 64, 5 Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ - \$ \$ Schedule 24 Allocation Amount \$ (1,106,495.99) \$ 1,197,022.24 \$ 90,526.25 \$ 64, 5 Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Allocation Amount \$ (1,106,495.99) \$ 1,197,022.24 \$ 90,526.25 \$ 64, 5 Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation Amount \$ - \$ - \$ - \$ - \$ Schedule 24 Allocation | | | , | (2,705,052.50) | Ų | 743,770.00 | , | (2,023,030.20) | Ÿ | (1,113,307. |
| 9 Real-Time Market Administration Amount \$ 787,523.97 \$ (108,952.73) \$ 678,571.24 \$ 484, 9 Financial Transmission Rights Market Administration Amount \$ 331,553.99 \$ - \$ 331,553.99 \$ 236, 3 Day-Ahead Schedule 24 Allocation Amount \$ 1,200,279.46 \$ (156,108.93) \$ 1,044,170.53 \$ 745, 4 Real -Time Schedule 24 Allocation Amount \$ (1,106,495.99) \$ 1,197,022.24 \$ 90,526.25 \$ 64, 5 Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ - \$ \$ Schedule 24 Allocation Amount \$ (1,106,495.99) \$ 1,197,022.24 \$ 90,526.25 \$ 64, 5 Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Allocation \$ - \$ - \$ - \$ \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ - \$ \$ Schedule 24 Admin Allocation Amoun | 4 | | e | 7 550 742 65 | e | (070 546 23) | e | 6 590 106 42 | e | 4 605 415 |
| 9 Financial Transmission Rights Market Administration Amount \$ 331,553.99 \$ - \$ 331,553.99 \$ 236, 3 Day-Ahead Schedule 24 Allocation Amount \$ 1,200,279.46 \$ (156,108.93) \$ 1,044,170.53 \$ 745,14 Real -Time Schedule 24 Allocation Amount \$ (1,106,495.99) \$ 1,197,022.24 \$ 90,526.25 \$ 64, 5 Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ - \$ \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ - \$ \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ - \$ \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \$ - \$ \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Admin Allocation Amount \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Manchal Amount \$ - \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Manchal Amount \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Manchal Amount \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Manchal Amount \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Manchal Amount \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Manchal Amount \$ - \$ - \$ - \$ \tag{5.5}\$ Schedule 24 Manchal Amou | - | | ą | | | | | | å | |
| Day-Ahead Schedule 24 Allocation Amount \$ 1,200,279.46 \$ (156,108.93) \$ 1,044,170.53 \$ 745,140 Real -Time Schedule 24 Allocation Amount \$ (1,106,495.99) \$ 1,197,022.24 \$ 90,526.25 \$ 64, 5 Schedule 24 Admin Allocation \$ - \$ - \$ - \$ \$ - \$ \$ | | | | | | (108,952.73) | | | | 484,206 |
| 4 Real-Time Schedule 24 Allocation Amount 5 Schedule 24 Admin Allocation 7 Schedule 24 Admin Allocation 8 - \$ - \$ - \$ - \$ Tual Energy Charges 2 Day-Ahead Virtual Energy Amount 8 - \$ - \$ - \$ - \$ The MISO Charges 8 | | | | | | | | | | 236,586 |
| Schedule 24 Admin Allocation Society Charges Schedule 24 Admin Allocation Society Charges Schedule 24 Admin Allocation Society Charges Schedule 24 Admin Allocation Society Charges Society Char | | • | | | | | | | | 745,086 |
| Part Company | | | | (1,106,495.99) | | 1,197,022.24 | | | | 64,596 |
| 2 Day-Ahead Virtual Energy Amount \$ - \$ - \$ - \$ - \$ 17 Real-Time Virtual Energy Amount \$ - \$ - \$ - \$ - \$ 18 Real-Time Virtual Energy Amount \$ - \$ - \$ - \$ - \$ 18 Real-Time Virtual Energy Amount \$ (89,153,720.75) \$ 90,325,120.31 \$ 1,171,399.56 \$ 835,60 Real-Time Miscellaneous Amount \$ (89,153,720.75) \$ 90,325,120.31 \$ 1,171,399.56 \$ 835,60 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ - \$ - \$ 8 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ - \$ 8 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ - \$ 8 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ - \$ 8 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ 115,296,100.59 \$ 82,271,00 Auction Revenue Rights - FTR Auction Transactions \$ 115,296,100.59 \$ - \$ 115,296,100.59 \$ 82,271,00 Auction Revenue Rights - Monthly ARR Revenue \$ (115,528,039.82) \$ 545,451.90 \$ (114,982,587.92) \$ (82,047,10) \$ 1 Auction Revenue Rights - ARR Stage 2 Distribution \$ (4,991,372.80) \$ - \$ (4,991,372.80) \$ (3,561,10) \$ 1,764,231.80 \$ - \$ 1,764,231.80 \$ 1,258,100 | 5 | Schedule 24 Admin Allocation | \$ | - | \$ | - | \$ | - | \$ | - |
| Real-Time Virtual Energy Amount \$ - \$ - \$ - \$ \$ - \$ \$ | tual l | Energy Charges | | | | | | | | |
| her MISO Charges 0 Real-Time Miscellaneous Amount \$ (89,153,720.75) \$ 90,325,120.31 \$ 1,171,399.56 \$ 835,6 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ - \$ ction Revenue Rights (ARR) 9 Auction Revenue Rights - FTR Auction Transactions \$ 115,296,100.59 \$ - \$ 115,296,100.59 \$ 82,271,0 Auction Revenue Rights - Monthly ARR Revenue \$ (115,528,039.82) \$ 545,451.90 \$ (114,982,587.92) \$ (82,047,1 Auction Revenue Rights - ARR Stage 2 Distribution \$ (4,91,372.80) \$ - \$ (4,991,372.80) \$ (3,561,2 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 1,764,231.80 \$ - \$ 1,764,231.80 \$ 1,258,1 TOTAL MISO CHARGES \$ (318,403,894.05) \$ 653,826,295.94 \$ 335,422,401.89 \$ 239,346,5 SCHEDULE 16 & 17 (FOR RETAIL) \$ 7,590,321.65 \$ 5,416,2 SCHEDULE 24 (FOR RETAIL) \$ 1,134,696.78 \$ 809,60 | 2 | Day-Ahead Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | |
| Real-Time Miscellaneous Amount \$ (89,153,720.75) \$ 90,325,120.31 \$ 1,171,399.56 \$ 835,60 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ - \$ \$ - \$ \$ | 7 | Real-Time Virtual Energy Amount | \$ | - | \$ | - | \$ | - | \$ | - |
| 6 Real-Time Uninstructed Deviation Amount \$ - \$ - \$ - \$ \ \ \ \ \ \ \ \ \ \ \ \ \ | her M | IISO Charges | | | | | | | | |
| SCHEDULE 24 (FOR RETAIL) STARCH Succion Revenue Rights (ARR) Succion Revenue Rights (| :0 | Real-Time Miscellaneous Amount | \$ | (89,153,720.75) | \$ | 90,325,120.31 | \$ | 1,171,399.56 | \$ | 835,872 |
| 9 Auction Revenue Rights - FTR Auction Transactions \$ 115,296,100.59 \$ - \$ 115,296,100.59 \$ 82,271, 0 Auction Revenue Rights - Monthly ARR Revenue \$ (115,528,039.82) \$ 545,451.90 \$ (114,982,587.92) \$ (82,047, 1 Auction Revenue Rights - ARR Stage 2 Distribution \$ (4,91,372.80) \$ - \$ (4,991,372.80) \$ (3,561, 2 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 1,764,231.80 \$ - \$ 1,764,231.80 \$ 1,258, TOTAL MISO CHARGES \$ (318,403,894.05) \$ 653,826,295.94 \$ 335,422,401.89 \$ 239,346,5 SCHEDULE 16 & 17 (FOR RETAIL) \$ 7,590,321.65 \$ 5,416,258 | 6 | Real-Time Uninstructed Deviation Amount | \$ | - | \$ | - | \$ | - | \$ | |
| 9 Auction Revenue Rights - FTR Auction Transactions \$ 115,296,100.59 \$ - \$ 115,296,100.59 \$ 82,271, 0 Auction Revenue Rights - Monthly ARR Revenue \$ (115,528,039.82) \$ 545,451.90 \$ (114,982,587.92) \$ (82,047, 1 Auction Revenue Rights - ARR Stage 2 Distribution \$ (4,91,372.80) \$ - \$ (4,991,372.80) \$ (3,561, 2 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 1,764,231.80 \$ - \$ 1,764,231.80 \$ 1,258, TOTAL MISO CHARGES \$ (318,403,894.05) \$ 653,826,295.94 \$ 335,422,401.89 \$ 239,346,5 SCHEDULE 16 & 17 (FOR RETAIL) \$ 7,590,321.65 \$ 5,416,258 | ction | | | | | | | | | |
| Auction Revenue Rights - Monthly ARR Revenue \$ (115,528,039.82) \$ 545,451.90 \$ (114,982,587.92) \$ (82,047,127) \$ (114,000,000) \$ (4,91,372.80) \$ - \$ (4,91,372.80) \$ (3,561,000) \$ (4,91,372.80) \$ - \$ (4,91,372.80) \$ (3,561,000) \$ (4,91,372.80) \$ - \$ (4,91,372.80) \$ (3,561,000) \$ (114,000,000) \$ (114,000,000) \$ (3,561,000) \$ (4,91,372.80) \$ - \$ (4,91,372.80) \$ (3,561,000) \$ (114,000,000) \$ (4,91,372.80) \$ - \$ (4,91,372.80) \$ (3,561,000) \$ (114,000,000) \$ (3,561,000) \$ (114,000,000) \$ (3,561,000) \$ (4,91,372.80) \$ - \$ (4,91,372.80) \$ (3,561,000) \$ (114,000,000) \$ (3,561,00 | | | s | 115.296.100.59 | s | - | s | 115,296,100,59 | s | 82,271,568 |
| Auction Revenue Rights - ARR Stage 2 Distribution \$ (4,991,372.80) \$ - \$ (4,991,372.80) \$ (3,561,422) Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 1,764,231.80 \$ - \$ 1,764,231.80 \$ 1,258,55 TOTAL MISO CHARGES \$ (318,403,894.05) \$ 653,826,295.94 \$ 335,422,401.89 \$ 239,346,55 SCHEDULE 16 & 17 (FOR RETAIL) \$ 7,590,321.65 \$ 5,416,25 SCHEDULE 24 (FOR RETAIL) \$ 1,134,696.78 \$ 809,60 | | _ | | | | | | | | (82,047,855. |
| 2 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 1,764,231.80 \$ - \$ 1,764,231.80 \$ 1,258, TOTAL MISO CHARGES \$ (318,403,894.05) \$ 653,826,295.94 \$ 335,422,401.89 \$ 239,346,2 SCHEDULE 16 & 17 (FOR RETAIL) \$ 7,590,321.65 \$ 5,416,2 SCHEDULE 24 (FOR RETAIL) \$ 1,134,696.78 \$ 809,6 | | | | | | , | | | | (3,561,682 |
| TOTAL MISO CHARGES \$ (318,403,894.05) \$ 653,826,295.94 \$ 335,422,401.89 \$ 239,346,2 SCHEDULE 16 & 17 (FOR RETAIL) \$ 7,590,321.65 \$ 5,416,2 SCHEDULE 24 (FOR RETAIL) \$ 1,134,696.78 \$ 809,0 | | | | | | _ | | | | 1,258,898 |
| SCHEDULE 16 & 17 (FOR RETAIL) \$ 7,590,321.65 \$ 5,416,22 SCHEDULE 24 (FOR RETAIL) \$ 1,134,696.78 \$ 809,02 | _ | raction revenue rights - monthly infeasible ARR revenue | ٠ | 1,704,431.60 | ڼ | - | ٥ | 1,704,231.00 | ٥ | 1,430,098 |
| SCHEDULE 24 (FOR RETAIL) \$ 1,134,696.78 \$ 809,0 | | TOTAL MISO CHARGES | \$ | (318,403,894.05) | \$ | 653,826,295.94 | \$ | 335,422,401.89 | \$ | 239,346,577. |
| | | SCHEDULE 16 & 17 (FOR RETAIL) | | | | | \$ | 7,590,321.65 | \$ | 5,416,208. |
| | | SCHEDULE 24 (FOR RETAIL) | | | | | \$ | 1,134,696.78 | \$ | 809,682 |
| | | TOTAL MISO CHARGES LESS SCHEDULES 16 & 17 (FOR RETA | ш. | | | | \$ | 326,697,383.46 | \$ | 233,120,686 |

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 3

| January 2022 | NET | INV | OICE | | RE | TAIL | INTERSYST | ЕМ - | ASSET BASED | RSYSTEM - | | Page 1 of 1 |
|---|-----------------------|-----|---------------------------------|--------------------|----------|---------------------------------|-----------|----------|---------------------------|-----------|--------|-------------|
| Posting Account Description | MWh | | Net Cost | MWh | | Net Cost | MWh | | Net Cost | MWh | | let Cost |
| Day Ahead & Real Time Energy | 112 11 11 | | Tite Cost | 112 11 11 | | 1101 0001 | 112 11 11 | | 1101 0001 | 112 1111 | | et Gost |
| Day Ahead Asset Energy | (1,427,993) | | (12,048,683.12) | (2,891,765) | | 40,157,175.60 | 1,463,772 | Ş | (52,205,858.72) | - | S | - |
| Day Ahead Non Asset Energy | (108,457) (42,506) | | (3,461,887.80) | (108,457) | | (3,461,887.80) | 145,034 | S S | (2.507.150.74) | - | S | (0.11 |
| a Real Time Asset Energy a Real Time Non Asset Energy | (42,506) | | (1,824,038.66) (27,549.82) | (187,540) (434) | | 1,773,120.10 (27,549.82) | 145,054 | S | (3,597,158.76) | - | S | - |
| SUBTOTAL | (1,579,390) | | (17,362,159.40) | (3,188,196) | | 38,440,858.08 | 1,608,806 | \$ | (55,803,017.48) | - | S | (0.1 |
| Day Ahead & Real Time Energy Loss | | | | | | | | | | | | |
| Day Ahead Loss Day Ahead Non Asset Loss | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Loss | | S | (128,510.23) | - | S | (128,510.23) | - | S | - | - | s | _ |
| c Real Time Loss | | | (120,010120) | | Ť | (==0,0 = 0.1=0) | | ì | | | Ì | |
| c Real Time Non Asset Loss | | | | | | | | | | | | |
| Real Time Distribution Losses Real Time Financial Bilateral Loss | - | S | (2,111,968.97) | - | \$ | (2,111,968.97) | - | Ş | - | - | S | - |
| SUBTOTAL | - | S | (2,240,479.20) | | S | (2,240,479.20) | | S | | - | S | |
| Virtual Energy | | , | (4)=10,1171=0) | | 7 | (4)=10,1171=0/ | | | | | الأن | |
| Day Ahead Virtual Energy | - | S | - | - | \$ | - | - | \$ | - | - | S | - |
| Real Time Virtual Energy SUBTOTAL | - | S | - | - | \$ | - | - | Ş S | - | - | S S | |
| Schedules 16, 17 & 24 | - | ş | - | - | ş | - | - | ş | - | - | 3 | |
| Day Ahead Market Administration (Schedule 17) | = | S | 711,062.64 | - | \$ | 594,248.62 | = | \$ | 116,814.02 | - | S | (0.0 |
| Real Time Market Administration (Schedule 17) | - | S | 85,287.01 | - | \$ | 73,906.66 | - | \$ | 11,380.35 | - | s | - |
| Financial Transmission Rights Administration (Schedule 16) Day-Ahead Schedule 24 Allocation Amount | - | S | 37,165.31 | - | \$ | 37,165.31 | - | \$ | | - | S | - |
| Day-Ahead Schedule 24 Allocation Amount Real -Time Schedule 24 Allocation Amount | - | S | 110,058.67 (97,747.55) | - | \$ \$ | 92,063.28 3,675.95 | - | Ş | 17,995.39 (101,423.50) | - | 8 | - |
| Schedule 24 Admin Allocation | | S | (27,747.55) | - | S | - | | S | (101,425.50) | - | S | - |
| SUBTOTAL | - | S | 845,826.08 | - | \$ | 801,059.82 | = | \$ | 44,766.26 | - | S | (0.0 |
| Congestion & FTRs | | | | | | | | | | | | |
| Day Ahead Congestion Day Ahead Non Asset Congestion | | | | | | | | | | | | |
| bb Real Time Congestion | | | | | | | | | | | | |
| b Real Time Non Asset Congestion | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Congestion | - | s | (70,510.32) | - | \$ | (70,510.32) | - | \$ | - | - | S | - |
| Real Time Financial Bilateral Congestion Financial Transmission Rights Hourly Allocation | - | S | (5,374,949.19) | - | \$ | (5,374,949.19) | - | Ş | - | - | S | - |
| Financial Transmission Rights Hourly Allocation Financial Transmission Rights Monthly Allocation | - | S | (303,409.00) | - | S | (303,409.00) | - | S | - | - | S | - |
| 2 Financial Transmission Rights Yearly Allocation | - | s | (1,632,060.78) | - | \$ | (1,632,060.78) | - | s | - | - | s | - |
| Financial Transmission Rights Transaction | - | s | = | - | \$ | = | - | \$ | - | - | S | - |
| Financial Transmission Rights Full Funding Guarantee Amount | - | S | 1,658,342.83 | - | \$ | 1,658,342.83 | - | Ş | - | - | S | - |
| 7 Financial Transmission Guarantee Uplift Amount 8 Financial Transmission Rights Monthly Transaction Amount | 1 | 8 | (1,508,569.95) | - | \$ \$ | (1,508,569.95) | | \$ \$ | - | - | 5 | |
| SUBTOTAL | - | S | (7,231,156.41) | - | \$ | (7,231,156.41) | = | \$ | - | - | S | |
| RSG & Make Whole Payments | | | | | | | | | | | | |
| Day Ahead Revenue Sufficiency Guarantee Distribution Day Ahead Revenue Sufficiency Make Whole Payment | - | S | 126,443.72 | - | \$ | 126,443.72 | - | \$ | - | - | S | - |
| Day Ahead Revenue Sufficiency Make Whole Payment Real Time Revenue Sufficiency Guarantee First Pass Distribution | - | S | (150,157.83) 600,163.19 | - | \$ \$ | (74,804.17) 600,163.19 | - | S S | (75,353.66) | - | S | - |
| Real Time Revenue Sufficiency Guarantee Make Whole Payment | | S | (601,631.91) | - | S | (380,695.69) | | S | (220,936.22) | - | S | - |
| Real Time Price Volatility Make Whole Payment | - | S | (118,371.51) | - | \$ | (89,484.26) | - | ş | (28,887.25) | - | s | - |
| SUBTOTAL | - | S | (143,554.34) | - | \$ | 181,622.79 | - | \$ | (325,177.13) | - | S | - |
| Other Charges Real Time Miscellaneous | | 8 | 203,470.82 | | S | 290,018.48 | | \$ | (86,547.66) | | S | 41.7 |
| Real Time Net Inadvertent Distribution | - | S | (50,816.62) | - | \$ | (50,816.62) | - | S | (80,547.00) | _ | S | 18.1 |
| Real Time Revenue Neutrality Uplift Amount | - | s | 501,103.70 | - | \$ | 501,103.70 | - | \$ | - | - | s | - |
| Real Time Uninstructed Deviation Amount | - | S | - | - | \$ | - | - | \$ | - | - | \$ | |
| SUBTOTAL Auction Revenue Rights (ARR) | - | S | 653,757.90 | - | \$ | 740,305.56 | - | \$ | (86,547.66) | - | \$ | 59.9 |
| Auction Revenue Rights - FTR Auction Transactions | _ | S | 6,409,766.32 | | S | 6.409.766.32 | | S | | _ | S | _ |
| Auction Revenue Rights - Monthly ARR Revenue | - | s | (6,456,472.05) | - | \$ | (6,436,325.58) | - | ş | (20,146.47) | - | s | - |
| Auction Revenue Rights - ARR Stage 2 Distribution | - | s | (235,898.25) | - | \$ | (235,898.25) | - | \$ | - | - | S | - |
| Auction Revenue Rights - Monthly Infeasible ARR Revenue | - | S | 76,750.07 (205,853.91) | - | \$ S | 76,750.07 (185,707.44) | - | Ş | (20.116.7 | - | \$ | |
| SUBTOTAL Grandfathered Charge Types | - | 2 | (205,853.91) | - | \$ | (185,/0/.44) | - | \$ | (20,146.47) | - | 2 | |
| Day Ahead Congestion Rebate on Carve Out-Grandfathered | - | S | (101,126.93) | - | \$ | (101,126.93) | - | ş | | - | S | |
| Day Ahead Loss Rebate on Carve Out-Grandfathered | - | S | (9,476.71) | - | \$ | (9,476.71) | - | \$ | - | - | s | - |
| Day Ahead Congestion Rebate on Option B-Grandfathered | - | S | - | - | \$ | - | - | \$ | - | - | S | - |
| Day Ahead Loss Rebate on Option B-Grandfathered | - | \$ | - | - | \$ | - | - | Ş | - | - | S | - |
| Real Time Loss Rebate on Carve Out Grandfathered Real Time Congestion Rebate on Carve Out Grandfathered | | S | | - | 8 | - | - | S | - | - | S | - |
| SUBTOTAL | - | S | (110,603.64) | - | \$ | (110,603.64) | - | \$ | - | - | S | |
| MISO Day 2 Charges | (1,579,390) | S | (25,794,222.92) | (3,188,196) | \$ | 30,395,899.56 | 1,608,806 | Ş | (56,190,122.48) | - | S | 59.7 |
| Net Congestion Amount | - | S | 26,255,239.14 | - | \$ | 26,255,239.14 | - | S S | - | - | S | - |
| Net Loss Amount Net Congestion and Loss Energy Offset | - | 5 | 7,675,436.77 (33,930,675.91) | - | \$ | 7,675,436.77 (33,930,675.91) | - | S . | - | - | S | - |
| Net Congestion and Loss Energy Offset SUBTOTAL | <u> </u> | S | (33,230,073.91) | | S | (33,730,073.91) | | S | | - | S | |
| Total MISO Day 2 Charges | (1.579.390) | | (25,794,222.92) | (3,188,196) | | 30,395,899,56 | 1,608,806 | - | (56,190,122.48) | | | _ |

- No longer reported in 1b, 5b, 13b, 22b
 No longer reported in 1c, 5c, 13c, 22c
 No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | February 2022 | NET I | NVOICE | | RETAIL | INTERSYSTEM | M - ASSET BASED | RSYSTEM - | | sset 1 |
|----------|---|-------------|----------------------------------|-----------|----------------------------------|------------------------|-----------------|-----------|--------|--------|
| | Posting Account Description | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Rev | |
| | Day Ahead & Real Time Energy | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Rev | enue |
| 1a | Day Ahead Asset Energy | (1,009,166) | \$ 763,947.10 | 131,321 | \$ 38,354,354.37 | (1,140,487) \$ | (37,590,407.27) | - | S | - |
| 5a | Day Ahead Non Asset Energy | | \$ (4,792,174.22) | (145,746) | \$ (4,792,174.22) | - S | | - | s | - |
| 13a | Real Time Asset Energy | (8,714) | \$ (342,714.09) | 134,280 | \$ 2,915,215.60 | (142,994) \$ | (3,257,929.69) | - | S | - |
| 22a | Real Time Non Asset Energy SUBTOTAL | (1,163,626) | \$ - \$ (4,370,941.21) | 119,856 | \$ - \$ 36,477,395.75 | - \$ (1,283,481) \$ | (40,848,336.96) | - | S | - |
| | Day Ahead & Real Time Energy Loss | (1,163,626) | \$ (4,3/0,941.21) | 119,856 | \$ 30,4//,395./5 | (1,283,481) \$ | (40,848,336.96) | - | 3 | - |
| 1c | Day Ahead Loss | | | | | | | | | |
| 5c | Day Ahead Non Asset Loss | | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | - | \$ (14,768.65) | - | \$ (14,768.65) | - \$ | - | - | S | - |
| 13c | Real Time Loss | | | | | | | | | |
| 22c | Real Time Non Asset Loss Real Time Distribution Losses | - | \$ (1,924,690.96) | | \$ (1,924,690.96) | - S | | | S | |
| 16 | Real Time Financial Bilateral Loss | | \$ (1,924,090.90) \$ - | _ | \$ (1,924,090.90) | - S | | _ | S | |
| | SUBTOTAL | - | \$ (1,939,459.61) | - | \$ (1,939,459.61) | - S | - | - | S | - |
| | Virtual Energy | | | | | | | | | |
| 12 | Day Ahead Virtual Energy | - | S - | - | \$ - | - S | - | - | S | - |
| 27 | Real Time Virtual Energy | - | \$ - \$ - | - | \$ - | - S | - | - | S | - |
| | SUBTOTAL Schedules 16, 17 & 24 | - | 5 - | - | \$ - | - 3 | | - | 2 | - |
| 4 | Day Ahead Market Administration (Schedule 17) | - | \$ 430,348.28 | - | \$ 364,508.17 | - S | 65,840.11 | - | S | - |
| 19 | Real Time Market Administration (Schedule 17) | - | \$ 43,748.04 | - | \$ 36,384.48 | - S | | - | S | - |
| 29 | Financial Transmission Rights Administration (Schedule 16) | | \$ 19,663.25 | - | \$ 19,663.25 | - S | - | - | S | - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | | \$ 89,024.03 | - | \$ 75,688.87 | - S | | - | S | - |
| 34 35 | Real -Time Schedule 24 Allocation Amount Schedule 24 Admin Allocation | | \$ (85,169.94) \$ | - | \$ 36,785.69 | - S | (121,955.63) | - | S | - |
| 33 | SUBTOTAL | | \$ 497,613.66 | - | \$ 533,030.46 | - 3 - S | (35,416.80) | | S | |
| | Congestion & FTRs | | 9 177,015.00 | | 9 333,030.10 | ÿ | (35,110.00) | | Ų | |
| 1b | Day Ahead Congestion | | | | | | | | | |
| 5b | Day Ahead Non Asset Congestion | | | | | | | | | |
| | Real Time Congestion | | | | | | | | | |
| 22b | Real Time Non Asset Congestion | | \$ 39,930,54 | | e 20.020.54 | - S | | | S | |
| 15 | Day Ahead Financial Bilateral Transaction Congestion Real Time Financial Bilateral Congestion | | \$ 39,930.54 \$ | - | \$ 39,930.54 \$ | - S | | - | S | - |
| 28 | Financial Transmission Rights Hourly Allocation | | \$ (757,344.86) | _ | \$ (757,344.86) | - S | _ | _ | s | _ |
| 30 | Financial Transmission Rights Monthly Allocation | - | \$ (229,135.70) | - | \$ (229,135.70) | - S | - | - | s | - |
| 32 | Financial Transmission Rights Yearly Allocation | | S - | - | \$ - | - S | = | - | S | - |
| 31 | Financial Transmission Rights Transaction | | S - | - | \$ - | - S | | - | S | - |
| 36 37 | Financial Transmission Rights Full Funding Guarantee Amount Financial Transmission Guarantee Uplift Amount | | \$ (79,517.69) \$ 76,952.41 | - | \$ (79,517.69) \$ 76,952.41 | - S | | - | S | - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | | \$ 70,932.41 \$ - | _ | \$ 70,732.41 | - S | - | _ | S | |
| 50 | SUBTOTAL | _ | \$ (949,115.30) | - | \$ (949,115.30) | - S | _ | _ | S | - |
| | RSG & Make Whole Payments | | | | | | | | | |
| 10 | Day Ahead Revenue Sufficiency Guarantee Distribution | | \$ 107,151.16 | - | \$ 107,151.16 | - S | - | - | S | - |
| 11 24 | Day Ahead Revenue Sufficiency Make Whole Payment | | \$ (68,247.46) | - | \$ (47,272.01) | - S | (-,, | - | S | - |
| 24 25 | Real Time Revenue Sufficiency Guarantee First Pass Distribution Real Time Revenue Sufficiency Guarantee Make Whole Payment | | \$ 156,889.00 \$ (315,933.84) | - | \$ 156,889.00 \$ (142,287.06) | - S | | - | S S | - |
| 43 | Real Time Price Volatility Make Whole Payment | | \$ (146,032.92) | _ | \$ (109,497.73) | - S | (36,535.19) | | S | |
| | SUBTOTAL | | \$ (266,174.06) | - | \$ (35,016.64) | - S | | | S | - |
| | Other Charges | | | | | | | | | |
| 20 | Real Time Miscellaneous | | \$ 285,483.67 | - | \$ 367,843.54 | - S | (82,359.87) | - | S | - |
| 21 23 | Real Time Net Inadvertent Distribution | | \$ (17,940.82) | - | \$ (17,940.82) | - \$ | | - | S | (5.1 |
| 23 26 | Real Time Revenue Neutrality Uplift Amount Real Time Uninstructed Deviation Amount | - | \$ 863,316.52 \$ | - | \$ 863,316.52 \$ | - S | - | - | S | - |
| 20 | Real Time Uninstructed Deviation Amount SUBTOTAL | - | \$ 1,130,859.37 | - | \$ 1,213,219.24 | - S | (82,359.87) | - | S | (5.1 |
| | Auction Revenue Rights (ARR) | | | | | ÿ | (==,000.01) | | | (0.1 |
| 39 | Auction Revenue Rights - FTR Auction Transactions | - | \$ 6,409,766.32 | - | \$ 6,409,766.32 | - S | - | - | S | - |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | | \$ (6,456,472.05) | - | \$ (6,437,420.57) | - S | | - | S | - |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | - | \$ (235,898.25) | - | \$ (235,898.25) | - S | - | - | S | - |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue SUBTOTAL | - | \$ 76,750.07 \$ (205,853.91) | - | \$ 76,750.07 \$ (186,802.43) | - S | (19,051.48) | - | S | - |
| | Grandfathered Charge Types | _ | g (200,000.91) | | g (100,002.43) | - 3 | (12,031.48) | | ٥ | |
| 6 | Day Ahead Congestion Rebate on Carve Out-Grandfathered | - | \$ (55,065.06) | - | \$ (55,065.06) | - \$ | - | - | \$ | - |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered | | \$ (4,790.91) | - | \$ (4,790.91) | - S | - | - | S | - |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | | S - | - | \$ - | - S | | - | S | - |
| 9 17 | Day Ahead Loss Rebate on Option B-Grandfathered | - | S - | - | \$ - | - S | - | - | S | - |
| 17 18 | Real Time Loss Rebate on Carve Out Grandfathered Real Time Congestion Rebate on Carve Out Grandfathered | - | ə - | - | ş - | - S | = | - | S | - |
| 10 | SUBTOTAL | - | \$ (59,855.97) | - | \$ (59,855.97) | - 3 - S | | 1 | S | |
| | MISO Day 2 Charges | (1,163,626) | \$ (6,162,927.03) | 119,856 | \$ 35,053,395.50 | (1,283,481) \$ | (41,216,322.53) | | S | (5.1 |
| x | Net Congestion Amount | - | \$ 23,060,536.66 | - | \$ 23,060,536.66 | - S | - | - | S | - |
| y | Net Loss Amount | - | \$ 6,702,937.45 | - | \$ 6,702,937.45 | - \$ | - | - | S | - |
| z | Net Congestion and Loss Energy Offset | - | \$ (29,763,474.11) | - | \$ (29,763,474.11) | - \$ | - | - | S | - |
| | SUBTOTAL T I MISO D 2 Character | | \$ - (C1C2.027.02) | -440.054 | \$ 25.052.205.50 | - \$ | | - | S | - |
| | Total MISO Day 2 Charges | (1,163,626) | \$ (6,162,927.03) | 119,856 | \$ 35,053,395.50 | (1,283,481) \$ | (41,216,322.53) | | 5 | (5.1 |

- x No longer reported in 1b, 5b, 13b, 22b
 y No longer reported in 1c, 5c, 13c, 22c
 z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | March 2022 | NET | INVOICE | | | RETA | ATT | INTEREVET | EM - ASSET BASED | RSYSTEM - | | ge 3 of 13 |
|--------------|--|-----------|-------------|------------------------|-----------|----------|---------------------------|-------------|-----------------------------------|-----------|--------|------------|
| | | | | | | KEIA | | | | | | |
| | Posting Account Description Day Ahead & Real Time Energy | MWh | Net C | ost | MWh | | Revenue | MWh | Revenue | MWh | Rev | venue |
| 10 | Day Ahead Asset Energy | (688,078) | S 10.6 | 42,698.82 | 271,025 | ç | 35,160,577.91 | (959,103) | \$ (24,517,879.09) | | 8 | |
| 5a | Day Ahead Non Asset Energy | (188,150) | | 15,717.56) | (188,150) | S | (5,015,717.56) | (232,103) | \$ (24,317,672.02) | _ | S | _ |
| | Real Time Asset Energy | (27,224) | | 30,415.07) | 93,095 | s | 881,010.84 | (120,318) | \$ (1,711,425.91) | _ | s | - |
| 22a | Real Time Non Asset Energy | 505 | \$ | 8,607.48 | 505 | \$ | 8,607.48 | - | \$ - | - | s | - |
| | SUBTOTAL | (902,947) | \$ 4,8 | 05,173.67 | 176,474 | \$ | 31,034,478.67 | (1,079,421) | \$ (26,229,305.00) | - | S | - |
| | Day Ahead & Real Time Energy Loss | | | | | | | | | | | |
| 1c | Day Ahead Loss | | | | | | | | | | | |
| 5c | Day Ahead Non Asset Loss | | | | | | | | _ | | s | |
| 3 13c | Day Ahead Financial Bilateral Transaction Loss | - | S | 13,298.62 | - | \$ | 13,298.62 | - | \$ - | - | Š | _ |
| | Real Time Loss | | | | | | | | | | | |
| 14 | Real Time Non Asset Loss Real Time Distribution Losses | - | S (1.4 | 85,293.66) | | s | (1,485,293.66) | | \$ - | | 9 | |
| 16 | Real Time Financial Bilateral Loss | | s (1,5 | - | - | S | (1,403,273.00) | _ | s - | _ | S | |
| | SUBTOTAL | - | S (1.4 | 71,995.04) | - | S | (1,471,995.04) | _ | s - | - | S | |
| | Virtual Energy | | · (-) | . 1,55 0.0 19 | | 7 | (1,111,111111) | | * | | | |
| 12 | Day Ahead Virtual Energy | - | S | - | - | \$ | - | - | \$ - | - | S | |
| 27 | Real Time Virtual Energy | - | S | - | - | \$ | - | - | S - | - | S | - |
| | SUBTOTAL | - | S | - | - | \$ | - | - | \$ - | - | S | - |
| | Schedules 16, 17 & 24 | | | | | | | | | | | |
| 4 | Day Ahead Market Administration (Schedule 17) | - | | 91,220.56 | - | Ş | 603,898.66 | - | \$ 87,321.90 | - | S | - |
| 19 | Real Time Market Administration (Schedule 17) | - | | 66,963.90 | - | \$ | 53,953.27 | - | \$ 13,010.63 | - | S | - |
| 29 33 | Financial Transmission Rights Administration (Schedule 16) Day-Ahead Schedule 24 Allocation Amount | - | | 25,703.40 95,844.07 | - | \$ \$ | 25,703.40 | - | \$ - \$ 12,337.46 | - | S S | - |
| 33 | Day-Ahead Schedule 24 Allocation Amount Real -Time Schedule 24 Allocation Amount | - | | 95,844.07 | - | \$ \$ | 83,506.61 (20,489.10) | - | \$ 12,337.46 \$ (72,153.70) | - | S | - |
| 35 | Schedule 24 Admin Allocation | - | 9 | (92,042.00) | - | S | (20,469.10) | - | ş (/2,133.70) | - | 8 | - |
| 33 | SUBTOTAL | | S 7 | 87,089.13 | | S | 746.572.84 | | \$ 40,516.29 | | S | |
| | Congestion & FTRs | | | 0.,000.00 | | | | | * | | - | |
| 1b | Day Ahead Congestion | | | | | | | | | | | |
| 5b | Day Ahead Non Asset Congestion | | | | | | | | | | | |
| | Real Time Congestion | | | | | | | | | | | |
| 22b | | | | | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - | \$ | (4,921.28) | - | \$ | (4,921.28) | - | \$ - | - | S | - |
| 15 | Real Time Financial Bilateral Congestion | - | S | | - | \$ | | - | \$ - | - | S | - |
| 28 30 | Financial Transmission Rights Hourly Allocation | - | \$ (2,6 | 78,842.85) | - | \$ | (2,678,842.85) | - | \$ - | - | \$ | - |
| 32 | Financial Transmission Rights Monthly Allocation Financial Transmission Rights Yearly Allocation | - | \$ (1 \$ | 35,623.14) | - | \$ \$ | (135,623.14) | - | \$ - | - | S | - |
| 31 | Financial Transmission Rights Transaction Financial Transmission Rights Transaction | - | S S | - | - | S | - | - | S - | - | 2 | - |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | - | | 10,840.68 | - | S | 110,840.68 | - | 9 | - | 8 | - |
| 37 | Financial Transmission Guarantee Uplift Amount | | | 24,687.92) | - | s | (124,687.92) | _ | s - | _ | S | - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | - | s | , | _ | s | - | _ | s - | _ | s | _ |
| | SUBTOTAL | - | \$ (2,8 | 33,234.51) | - | S | (2,833,234.51) | - | S - | - | S | |
| | RSG & Make Whole Payments | | | | | | | | | | | |
| 10 | Day Ahead Revenue Sufficiency Guarantee Distribution | - | | 05,689.24 | - | \$ | 105,689.24 | - | \$ - | - | S | - |
| 11 | Day Ahead Revenue Sufficiency Make Whole Payment | - | | 05,604.28) | - | \$ | (40,919.92) | - | \$ (64,684.36) | - | S | - |
| 24 | Real Time Revenue Sufficiency Guarantee First Pass Distribution | - | | 20,827.58 | - | \$ | 120,827.58 | - | \$ - | - | S | - |
| 25 | Real Time Revenue Sufficiency Guarantee Make Whole Payment | - | | (58,819.54) | - | \$ | (21,083.67) | - | \$ (37,735.87) | - | S | - |
| 43 | Real Time Price Volatility Make Whole Payment SUBTOTAL | - | | (99,059.44) | - | S S | (63,327.83) 101,185.40 | - | \$ (35,731.61) \$ (138,151.84) | - | S | |
| | Other Charges | - | 2 | (56,966.44) | - | Ş | 101,185.40 | - | \$ (138,151.84) | - | 2 | _ |
| 20 | Real Time Miscellaneous | | ç 1 | 54,633.85 | | ç | 236,993.72 | | \$ (82,359.87) | | 9 | |
| 21 | Real Time Net Inadvertent Distribution | | | (15,018.40) | - | S | (15,018.40) | - | \$ (62,339.67) | | S | 1.25 |
| 23 | Real Time Revenue Neutrality Uplift Amount | _ | | 02,811.60 | _ | \$ | 1,002,811.60 | _ | s - | - | S | - |
| 26 | Real Time Uninstructed Deviation Amount | _ | \$ | - | - | \$ | -,, | - | s - | - | s | - |
| L | SUBTOTAL | - | \$ 1,1 | 42,427.05 | - | \$ | 1,224,786.92 | - | \$ (82,359.87) | - | S | 1.25 |
| | Auction Revenue Rights (ARR) | _ | | | | | | | | | | |
| 39 | Auction Revenue Rights - FTR Auction Transactions | - | | 69,796.97 | - | \$ | 4,769,796.97 | - | \$ - | - | S | - |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | - | | 90,198.14) | - | \$ | (4,760,847.42) | - | \$ (29,350.72) | - | S | - |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | - | | 76,339.19) | - | Ş | (176,339.19) | - | \$ - | - | S | - |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | - | | 68,443.44 | - | \$ | 168,443.44 | - | \$ - | - | \$ | |
| | SUBTOTAL Characteristics of Char | - | \$ | (28,296.92) | | \$ | 1,053.80 | | \$ (29,350.72) | - | \$ | _ |
| 6 | Grandfathered Charge Types Day Ahead Congestion Rebate on Carve Out-Grandfathered | | S | 9,402.76 | | S | 9,402.76 | | 9 | | S | _ |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered Day Ahead Loss Rebate on Carve Out-Grandfathered | 1 - | S . | (5,765.73) | - | S | (5,765.73) | - | \$ | - | S | - |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | | S | (3,703.73) | - | S | (3,703.73) | - | Š | | S | |
| 9 | Day Ahead Loss Rebate on Option B-Grandfathered | | S | | - | S | | - | s - | _ | S | _ |
| 17 | Real Time Loss Rebate on Carve Out Grandfathered | _ | S | | _ | S | _ | _ | S - | - | S | _ |
| 18 | Real Time Congestion Rebate on Carve Out Grandfathered | _ | S | - | - | \$ | - | - | s - | - | s | - |
| | SUBTOTAL | - | S | 3,637.03 | - | \$ | 3,637.03 | - | S - | - | S | |
| | MISO Day 2 Charges | (902,947) | | 67,833.97 | 176,474 | \$ | 28,806,485.11 | (1,079,421) | \$ (26,438,651.14) | | S | 1.2 |
| x | Net Congestion Amount | = | \$ 18,5 | 51,625.54 | - | \$ | 18,551,625.54 | - | \$ - | - | S | - |
| y | Net Loss Amount | - | \$ 5,5 | 559,815.11 | - | \$ | 5,559,815.11 | - | \$ - | - | S | - |
| \mathbf{z} | Net Congestion and Loss Energy Offset | - | \$ (24,1 | 11,440.65) | - | \$ | (24,111,440.65) | - | \$ - | - | S | |
| _ | SUBTOTAL | - | \$ | - | | \$ | - | | \$ - | - | S | _ |
| | Total MISO Day 2 Charges | (902,947) | \$ 2,3 | 67,833.97 | 176,474 | \$ | 28,806,485.11 | (1,079,421) | \$ (26,438,651.14) | - | \$ | 1.25 |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | April 2022 | NET | INVOICE | | RETAIL | INTEREVETI | EM - ASSET BASED | DEVETEM | Page 4 of 1 |
|----------|---|-------------|--------------------------------------|-----------|--------------------------------------|------------|-----------------------------|----------|-------------|
| | Posting Account Description | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Revenue |
| | Day Ahead & Real Time Energy | MWn | Net Cost | MWn | Revenue | MWn | Revenue | MWn | Revenue |
| 1a | Day Ahead Asset Energy | (781,196) | \$ 26,840,353.89 | 122,853 | \$ 51,892,061.78 | (904,049) | \$ (25,051,707.89) | - | S - |
| 5a | Day Ahead Non Asset Energy | (185,607) | \$ (6,709,923.85) | (185,607) | \$ (6,709,923.85) | - | \$ - | - | S - |
| | Real Time Asset Energy | 22,665 | \$ 1,592,492.64 | 118,482 | \$ 4,167,684.04 | (95,817) | \$ (2,575,191.40) | - | S - |
| 22a | Real Time Non Asset Energy | - | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL Production Francisco | (944,138) | \$ 21,722,922.68 | 55,728 | \$ 49,349,821.97 | (999,866) | \$ (27,626,899.29) | - | \$ - |
| 1c | Day Ahead & Real Time Energy Loss Day Ahead Loss | | | | | | | | |
| 5c | Day Ahead Non Asset Loss | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | - | \$ 325.29 | - | \$ 325.29 | - | \$ - | - | S - |
| 13c | Real Time Loss | | | | | | | | |
| | Real Time Non Asset Loss | | | | | | | | |
| 14 | Real Time Distribution Losses | - | \$ (2,116,472.45) | - | \$ (2,116,472.45) | - | \$ - | - | S - |
| 16 | Real Time Financial Bilateral Loss SUBTOTAL | - | \$ (2,116,147.16) | - | \$ (2,116,147.16) | - | \$ - | - | S - |
| | Virtual Energy | - | \$ (2,110,147.10) | - | \$ (2,110,147.10) | - | , - | - | 3 - |
| 12 | Day Ahead Virtual Energy | - | S - | - | S - | - | S - | - | S - |
| 27 | Real Time Virtual Energy | - | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - | \$ - | - | \$ - | - | \$ - | - | S - |
| F | Schedules 16, 17 & 24 | | | | | | | | |
| 4 19 | Day Ahead Market Administration (Schedule 17) | - | \$ 647,141.10 \$ 70,334.10 | - | \$ 564,443.85 | - | \$ 82,697.25 \$ 8,723.48 | - | S - |
| 19 29 | Real Time Market Administration (Schedule 17) Financial Transmission Rights Administration (Schedule 16) | - | \$ 70,334.10 \$ 32,244.43 | - | \$ 61,610.62 \$ 32,244.43 | - | \$ 8,723.48 \$ - | 1 | S - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | | \$ 32,244.43 \$ 100.317.77 | - | \$ 32,244.43 \$ 87,478.61 | - | \$ 12.839.16 | _ | s - |
| 34 | Real -Time Schedule 24 Allocation Amount | - | \$ (97,768.90) | _ | \$ 14,423.92 | - | \$ (112,192.82) | - | S - |
| 35 | Schedule 24 Admin Allocation | - | \$ - | - | \$ - | - | \$ - | - | s - |
| | SUBTOTAL | - | \$ 752,268.50 | - | \$ 760,201.43 | - | \$ (7,932.93) | - | S - |
| | Congestion & FTRs | | | | | | | | |
| 1b | Day Ahead Congestion | | | | | | | | |
| 5b | Day Ahead Non Asset Congestion Real Time Congestion | | | | | | | | |
| | Real Time Non Asset Congestion | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - | \$ (5,627.69) | - | \$ (5,627.69) | - | S - | _ | S - |
| 15 | Real Time Financial Bilateral Congestion | - | \$ - | - | \$ - | - | \$ - | - | s - |
| 28 | Financial Transmission Rights Hourly Allocation | - | \$ 5,796.07 | - | \$ 5,796.07 | - | \$ - | - | S - |
| 30 | Financial Transmission Rights Monthly Allocation | - | \$ (129,503.20) | - | \$ (129,503.20) | - | Ş - | - | S - |
| 32 | Financial Transmission Rights Yearly Allocation | - | S - | - | \$ - | - | \$ - | - | S - |
| 31 36 | Financial Transmission Rights Transaction Financial Transmission Rights Full Funding Guarantee Amount | - | \$ - \$ 20,634.65 | - | \$ - \$ 20,634.65 | - | \$ - | - | S - |
| 37 | Financial Transmission Rights Fun Funding Guarantee Amount | | \$ (30,412.30) | - | \$ (30,412.30) | | \$ - | _ | s - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | - | \$ (50,112.50) | _ | \$ - | - | \$ - | _ | s - |
| | SUBTOTAL | - | \$ (139,112.47) | - | \$ (139,112.47) | - | \$ - | - | S - |
| | RSG & Make Whole Payments | | | | | | | | |
| 10 | Day Ahead Revenue Sufficiency Guarantee Distribution | = | \$ 101,849.92 | - | \$ 101,849.92 | - | \$ - | - | S - |
| 11 24 | Day Ahead Revenue Sufficiency Make Whole Payment Real Time Revenue Sufficiency Guarantee First Pass Distribution | - | \$ (334,089.26) \$ 198,664.47 | - | \$ (151,257.18) \$ 198,664.47 | - | \$ (182,832.08) \$ | - | S - |
| 25 | Real Time Revenue Sufficiency Guarantee Pirst Pass Distribution Real Time Revenue Sufficiency Guarantee Make Whole Payment | - | \$ (195,535.12) | - | \$ (139,857.28) | - | \$ (55,677.84° | | s - |
| 43 | Real Time Price Volatility Make Whole Payment | | \$ (54,611.32) | - | \$ (49,898.04) | _ | \$ (4,713.28) | - | s - |
| | SUBTOTAL | - | \$ (283,721.31) | - | \$ (40,498.11) | - | \$ (243,223.20) | - | \$ - |
| | Other Charges | | | | | | | | |
| 20 | Real Time Miscellaneous | - 1 | \$ 326,582.75 | | \$ 411,734.48 | - 1 | \$ (85,151.73) | - | S - |
| 21 | Real Time Net Inadvertent Distribution | - | \$ 123,517.35 | - | \$ 123,517.35 | - | \$ - | - | S - |
| 23 26 | Real Time Revenue Neutrality Uplift Amount Real Time Uninstructed Deviation Amount | - | \$ 2,626,802.92 | - | \$ 2,626,802.92 | - | \$ - | - | S - |
| 20 | SUBTOTAL | | \$ 3,076,903.02 | | \$ 3,162,054.75 | - | \$ (85,151.73) | - | S - |
| | Auction Revenue Rights (ARR) | | - 5,070,703.02 | | ÷ 0,102,007.70 | | - (00,231.73) | | - |
| 39 | Auction Revenue Rights - FTR Auction Transactions | - | \$ 4,769,796.97 | - | \$ 4,769,796.97 | - | \$ - | - | S - |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | - | \$ (4,790,198.14) | - | \$ (4,759,784.54) | - | \$ (30,413.60) | - | S - |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | - | \$ (176,339.19) | - | \$ (176,339.19) | - | \$ - | - | S - |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | - | \$ 168,443.44 | - | \$ 168,443.44 | - | ş - | - | S - |
| | SUBTOTAL Crandfethered Charge Tunes | - | \$ (28,296.92) | - | \$ 2,116.68 | - | \$ (30,413.60) | <u> </u> | \$ - |
| 6 | Grandfathered Charge Types Day Ahead Congestion Rebate on Carve Out-Grandfathered | | \$ 5,627.69 | | \$ 5,627.69 | | S | _ | S |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered | | \$ (325.29) | | \$ (325.29) | | \$ | | s - |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | - | \$ - | - | \$ - | - | \$ - | - | s - |
| 9 | Day Ahead Loss Rebate on Option B-Grandfathered | - | S - | - | \$ - | - | \$ - | - | S - |
| 17 | Real Time Loss Rebate on Carve Out Grandfathered | - | S - | - | \$ - | - | \$ - | - | S - |
| 18 | Real Time Congestion Rebate on Carve Out Grandfathered | - | S - | - | \$ - | - | \$ - | - | S - |
| _ | SUBTOTAL MISO D 2 Character | (0.14-4.20) | \$ 5,302.40 | | \$ 5,302.40 | | \$ - (27,002,620,75) | - | \$ - |
| | MISO Day 2 Charges Net Congestion Amount | (944,138) | \$ 22,990,118.74 \$ 32,510,349.21 | 55,728 | \$ 50,983,739.49 \$ 32,510,349.21 | (999,866) | \$ (27,993,620.75) | | S - |
| v | Net Loss Amount | | \$ 32,510,349.21 \$ 8,791,080.42 | | \$ 32,510,549.21 \$ 8,791,080.42 | | s - | | S - |
| J Z | Net Congestion and Loss Energy Offset | | \$ (41,301,429.63) | | \$ (41,301,429.63) | | \$ | | s - |
| | SUBTOTAL | - | \$ - | - | \$ - | - | \$ - | - | S - |
| | Total MISO Day 2 Charges | (944,138) | \$ 22,990,118.74 | 55,728 | \$ 50,983,739.49 | (999,866) | \$ (27,993,620,75) |) - | s - |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | VSTEM - N | EM - NON-ASS | ge 5 of |
|--|-----------|--------------|---------|
| Day Ashed See Tenney (21,309, 3 3,312,307.35 206,877 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | |
| 12 De Johan March Energy | MWh | h Rever | renue |
| See December Company | | 8 | |
| 13. Real Time Aware Energy | - | - s | |
| 22. Real Films Non Austr Eurory (700) \$ (00,450.50) \$ (00,500.50) \$ | | - S | _ |
| SERFOTCAL CRASSON S. 57,00,023.00 CRASSON S. 57,00,023.00 CRASSON S. 57,00,023.00 CRASSON S. 57,00,023.00 S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. Aband Transaction Loss S. D. D. Aband Transaction Loss S. D. D. Aband Transaction Loss S. D. D. Aband Transaction Loss S. D. D. Aband Transaction Loss S. D. D. D. D. D. D. D. D. D. D. D. D. D. | - | - s | - |
| Section | | - S | - |
| Section Day Abaded Transaction Leaves Section Committee Section | | | |
| December Section Sec | | | |
| 15. Red Time Don Assert Loss | | - S | |
| Real Time Deliversion Losses \$ (1,334,309.42) \$ (1,344,509.42) \$ \$. | | - 8 | _ |
| 14 Red Time Potenbuston Loses \$ (1,354,399,42] \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | |
| 15 Red Time Francical Bilanceal Loss \$ \$ \$ \$ \$ \$ \$ \$ \$ | - | - S | _ |
| No. Proceedings Sample | - | - S | _ |
| 22 Day Abead Virmal Energy | | - S | - |
| 2 | | | |
| Schedus 16,17 & 24 | - | - S | - |
| Schedules (6.17 & 24 Day Albead Marker Administration (Schedule 17) \$ \$ 567,420.78 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | - S | |
| December Section Sec | | - S | _ |
| 19 Red Time Market Administration (Schedule 17) | | e | _ |
| 22 Financial Transmission Rights Administration Checkeds (4) S. 27,975.77 S. 27,975.77 S. 89,952.50 | | - S | - |
| 33 Dy-Ahead Schedule 24 Allocation Amount \$ 89,822.96 \$ 80,870.46 \$ 89,922.90 \$ 17,026.77 \$ 11,1973.78 \$ 15,026.77 \$ 15 | | - s | - |
| Sechedic 24 Allocation Amount S | | - S | _ |
| St. | - | - S | - |
| Day Abacd Congestion | - | - S | - |
| 15 Day Ahead Congestion | - | - S | |
| 15 | | | |
| 252 Real Time Congestion | | | |
| 22 | | | |
| 2 Day Abaed Franacial Blatteral Transaction Congestion \$ (40,521,96) \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | |
| 15 Real Time Financial Balteral Congestion \$ \$ \$ \$ \$ \$ \$ \$ \$ | | - S | |
| Section Sect | | - s | |
| 10 Financial Transmission Rights Monthly Allocation | | - S | _ |
| 15 Financial Transmission Rights Tunsacion | - | - S | - |
| Section Sect | - | - S | - |
| Section Sect | - | - S | - |
| Surficial Transmission Rights Monthly Transaction Amount Surficial Transmission Rights Monthly Transaction Amount Surficial Transmission Rights Monthly Transaction Surficial Transmission Rights Monthly Transaction Surficial Transmission Rights Monthly Transaction Surficial Transmission Rights Monthly Infeasible ARR Revenue Sufficiency Guarantee Distribution Surficial Surficial Transmission Rights Monthly Infeasible ARR Revenue Sufficiency Guarantee Distribution Surficial Surf | - | - S | - |
| SUBTOTAL S (19,341,106.04) S (19,341,106.04) S S S | - | - S | - |
| RSG & Make Whole Payments | | - S | |
| 10 Day Ahead Revenue Sufficiency Guarantee Distribution | _ | - 3 | ف |
| 11 Day Ahead Revenue Sufficiency Make Whole Payment | | - 8 | _ |
| 24 Real Time Revenue Sufficiency Guarantee Make Whole Payment | - | - S | |
| 25 Real Time Revenue Sufficiency Guarantee Make Whole Payment | - | - S | _ |
| SUBTOTIAL | - | - S | - |
| Other Charges | - | - S | - |
| 20 Real Time Miscellaneous | - | - S | |
| 21 Real Time Net Inadvertent Distribution | | | |
| 23 Real Time Revenue Neutrality Uplift Amount | | - S | - |
| S | | - \$ - \$ | - |
| SUBTOTAL | - | - 9 | - |
| Auction Revenue Rights (ARR) - \$ 4,769,796.97 | | - S | |
| 39 Auction Revenue Rights - FTR Auction Transactions S 4,769,796,97 S S 4,860,976,97 S S S S S S S S S | | | |
| 40 Auction Revenue Rights - Monthly ARR Revenue \$ (4,700,198.4) \$ (4,701,244.54) \$ (28,953.60) 41 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ (176,339.19) \$ (176,3 | - | - S | - |
| 41 Auction Revenue Rights - ARR Stage 2 Distribution - \$ (176,339,19) - \$ (176,339,19) - \$ - \$ - \$ - \$ | - | - S | - |
| SUBTOTAL - S (28,296.92) - S (656.68 - S (28,953.60) | - | - S | - |
| Grandfathered Charge Types S | - | - S | |
| 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered - \$ 41,169.11 - \$ 41,169.11 - \$ - \$ 438.60 - \$ 438.60 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | | - \$ | _ |
| Day Ahead Loss Rebate on Carve Out-Grandfathered S 438.60 S 438.60 S - S | | - | |
| S Day Ahead Congestion Rebate on Option B-Grandfathered - \$ - \$ - \$ - \$ - \$ | - | - S | - |
| 9 Day Ahead Loss Rebate on Option B-Grandfathered - \$ - \$ - \$ - \$ - \$ 17 Real Time Loss Rebate on Carve Out Grandfathered - \$ - \$ - \$ - \$ - \$ - \$ - \$ 18 Real Time Congestion Rebate on Carve Out Grandfathered - \$ - \$ - \$ - \$ - \$ 5 - \$ 5 - \$ 5 - \$ 5 - \$ 5 5 - \$ 5 5 5 5 | | - S | - |
| 17 Real Time Loss Rebate on Carve Out Grandfathered - \$ <td< td=""><td></td><td>- s</td><td>_</td></td<> | | - s | _ |
| 18 Real Time Congestion Rebate on Carve Out Grandfathered - \$ - \$ - \$ - \$ SUBTOTAL - \$ 41,607.71 - \$ 41,607.71 - \$ - \$ | | - S | - |
| SUBTOTAL - \$ 41,607.71 - \$ 41,607.71 - \$ - | - | - s | - |
| MISO Day 2 Charges 708 084) \$ 2.454.497.76 56.666 \$ 29.270.074.69 764.750) \$ (26.815.576.93) | | - S | |
| | | - \$ | - |
| x Net Congestion Amount - \$ 30,237,240.96 - \$ 30,237,240.96 - \$ - | | - S | - |
| y Net Loss Amount - \$ 9,234,594.09 - \$ 9,234,594.09 - \$ | - | - S | - |
| z Net Congestion and Loss Energy Offset - \$ (39,471,835.05) - \$ (39,471,835.05) - \$ - | | - S | |
| SUBTOTAL - \$ \$ \$ - Total MISO Day 2 Charges (708,084) \$ 2,454,497.76 56,666 \$ 29,270,074.69 (764,750) \$ (26,815,576.93) | | - \$ | _ |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 3

| Day Day | June 2022 sting Account Description y Ahead As Real Time Energy y Ahead Asset Energy y Ahead Non Asset Energy al Time Asset Energy al Time Asset Energy BTOTAL y Ahead See Real Time Energy Loss y Ahead See Real Time Energy Loss y Ahead See y Ahead See See See See See See See See See Se | MWh (847,791) (280,391) 7,885 11 (1,120,286) | \$ (16,08 | 14,197.55 80,197.29) 04,863.08 1,191.15 59,945.51) 10,665.66) | MWh 247,540 (280,391) 105,911 11 73,071 | \$ \$ \$ \$ | Revenue 68,015,458.92 (16,080,197.29) 5,232,424.69 1,191.15 57,168,877.47 (10,665.66) (3,458,138.67) | MWh (1,095,331) - (98,026) - (1,193,357) | \$ - \$ (4,027,561.61) \$ - | 5,200 - - 5,200 | Revenue \$ - \$ 558,525.0 \$ - \$ 558,525.0 |
|--|--|--|--|---|---|----------------------|--|---|---|--------------------------|--|
| Day | y Ahead Aset Energy y Ahead Aset Energy y Ahead Non Aset Energy y Ahead Non Aset Energy al Time Aset Energy al Time Aset Energy BTOTAL y Ahead Energy BTOTAL y Ahead Energy Loss y Ahead Loss y Ahead Inservation Loss al Time Con Aset Loss al Time Con Set Loss al Time Distribution Losses al Time Distribution Losses al Time Distribution Losses al Time Financial Bilateral Transaction Loss BTOTAL truit Energy y Ahead Virtual Energy al Time Virtual Energy al Time Virtual Energy BTOTAL truit Energy BTOTAL Total Energy BTOTAL Total Time Market Administration (Schedule 17) al Time Market Administration (Schedule 17) ancial Transmission Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Allonal Molocation Amount | (847,791) (280,391) 7,885 11 (1,120,286) | \$ 6,717 \$ (16,08) \$ 1,20 \$ \$ \$ (8,15) \$ (3,45) \$ \$ \$ (3,46) \$ \$ \$ \$ | 14,197.55 80,197.29) 04,863.08 1,191.15 59,945.51) 10,665.66) | 247,540 (280,391) 105,911 11 | \$ \$ \$ \$ | 68,015,458.92 (16,080,197.29) 5,232,424.69 1,191.15 57,168,877.47 (10,665.66) | (1,095,331) - (98,026) - (1,193,357) | \$ (61,301,261.37) \$ - \$ (4,027,561.61) \$ - \$ (65,328,822.98) | 5,200 | \$ 558,525.0 \$ - \$ 558,525.0 |
| a Daya a Daya a Daya a Daya a Daya bara sular a Cara a Car | y Ahead Non Asset Energy al Time Non Asset Energy al Time Non Asset Energy BTOTAL y Ahead Conserved See See See See See See See See See S | (280,391) 7,885 111 (1,120,286) | \$ (16,08 | 80,197.29) 04,863.08 1,191.15 59,945.51) 10,665.66) 58,138.67) | (280,391) 105,911 11 | \$ \$ \$ \$ | (16,080,197.29) 5,232,424.69 1,191.15 57,168,877.47 (10,665.66) | (98,026) | \$ (4,027,561.61) \$ (65,328,822.98) | 5,200 - - 5,200 | \$ - \$ 558,525.0 |
| 13-a | al Time Asset Energy Il Time Non Asset Energy BTOTAL y Ahead As Real Time Energy Loss y Ahead Non Asset Loss y Ahead Non Asset Loss al Time For Manager Institute Ins | 7,885 11 (1,120,286) | \$ 1,20 \$ \$ (8,15 \$ (3,45 \$ (3,46 \$ \$ (3,46) \$ \$ (3,46) \$ \$ (3,46) | 04,863.08 1,191.15 59,945.51) 10,665.66) 58,138.67) | 105,911 11 | \$ \$ \$ \$ | 5,232,424.69 1,191.15 57,168,877.47 (10,665.66) | (1,193,357) | \$ - \$ (65,328,822.98) \$ - | 5,200 | \$ - \$ 558,525.0 |
| Day | al Time Non Asset Energy BTOTAL y Ahead Coss y Ahead Coss y Ahead Coss y Ahead Financial Bilateral Transaction Loss al Time Loss al Time Loss al Time Coss al Time Distribution Losses al Time Distribution Losses al Time Distribution Losses al Time Financial Bilateral Loss BTOTAL ttual Energy y Ahead Virtual Energy al Time Virtual Energy BTOTAL ttual Energy BTOTAL tactules 16,17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount del-Time Schedule 24 Allocation Amount del-Time Schedule 24 Allocation Amount deduce 24 Allonation Amount deduce 24 Allonation Amount | 11 (1,120,286) | \$ (8,15) \$ (3,45) \$ (3,46) \$ (3,46) \$ (3,46) \$ (3,46) \$ (3,46) \$ (3,46) | 1,191.15 59,945.51) 10,665.66) 58,138.67) | 11 | \$ \$ | 1,191.15 57,168,877.47 (10,665.66) | (1,193,357) | \$ - \$ (65,328,822.98) \$ - | 5,200 | \$ - \$ 558,525.0 |
| Still Day Da | BTOTAL y Ahead Mon Asset Loss y Ahead Non Asset Loss y Ahead Non Asset Loss y Ahead Non Asset Loss al Time Loss al Time Loss al Time Loss al Time Distribution Losses al Time Distribution Losses al Time Briancial Bilateral Loss BTOTAL BUILDER STOTAL (1,120,286) | \$ (8,15) \$ (1) \$ (3,45) \$ (3,46) \$ (5) \$ (5) \$ (6) | 59,945.51) 10,665.66) 58,138.67) | | \$ \$ \$ | 57,168,877.47 (10,665.66) | | \$ - | - | \$ - |
| Day | y Ahead Ac Real Time Energy Loss y Ahead Loss y Ahead Non Asset Loss y Ahead Financial Bilateral Transaction Loss al Time Loss al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Sos al Time Virtual Energy y Ahead Virtual Energy al Time Virtual Energy BTOTAL ticulies 16, 17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation and the Schedule Allocation Amount edule 24 Allonal Allocation and the Schedule Allocation Amount edule 24 Allonal Allocation | | \$ (3,45) \$ (3,46) \$ (3,46) \$ (3,46) \$ (3,46) | 10,665.66) 58,138.67) | - | \$ \$ \$ | (10,665.66) | | \$ - | - | \$ - |
| Section | y, Ahead Non Asset Loss al Time Loss al Time Loss al Time Loss al Time Ston Asset Loss al Time Distribution Losses al Time Distribution Losses al Time Financial Bilateral Loss BTOTAL titual Energy y Ahead Virtual Energy al Time Virtual Energy BTOTAL total total Energy BTOTAL total | - | \$ (3,45) \$ \$ (3,46) \$ \$ \$ \$ | 58,138.67) | - - - - | \$ | | · | \$ - | | |
| 3 | y Ahead Financial Bilateral Transaction Loss al Time Los al Time Con Asset Loss al Time Distribution Losses al Time Stand Bilateral Loss BTOTAL ttual Energy y Ahead Virtual Energy al Time Virunal Energy al Time Virunal Energy BTOTAL ttual Energy al Time Virunal Energy al Time Virunal Energy al Time Virunal Energy al Time Virunal Energy al Time Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Market Administration (Schedule 17) ancial Transmission Rights Administration (Schedule 18) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation | | \$ (3,45) \$ \$ (3,46) \$ \$ \$ \$ | 58,138.67) | - - - - | \$ | | - | \$ - | | |
| 13-c | al Time Loss al Time Distribution Losses al Time Financial Bilateral Loss BITOTAL. Tutal Energy y Ahead Virtual Energy al Time Virtual Energy BITOTAL headles 1,17 & 24 y Ahead Market Administration (Schedule 17) al Time Wirtual Energy BITOTAL headles 1,17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Market Administration (Schedule 18) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation | | \$ (3,45) \$ \$ (3,46) \$ \$ \$ \$ | 58,138.67) | - - - | \$ | | - | s - | | |
| | al Time Non Asset Loss al Time Distribution Losses al Time Financial Bilateral Loss BTOTAL ttual Energy y Ahead Virtual Energy al Time Virtual Energy BTOTAL ttual Sergy BTOTAL triculus 56, 17 & 24 ya Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Market Administration (Schedule 17) ancial Transmission Rights Administration (Schedule 17) ya-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation | | \$ (3,40 \$ \$ \$ \$ \$ \$ | - 1 | - | \$ | (3,458,138.67) | - | S - | | |
| 1414 Reader | al Time Distribution Losses al Time Financial Bilateral Loss BTOTAL Tund Efferzy y Ahead Virtual Energy al Time Virtual Energy BTOTAL BTOTAL BTOTAL BTOTAL BTOTAL BTOTAL Lotdlies 51,17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) ancial Transmission Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation | | \$ (3,40 \$ \$ \$ \$ \$ \$ | - 1 | - | \$ | (3,458,138.67) | - | s - | | |
| SUL Sul | BTOTAL trutual Energy y Ahead Virtual Energy la Time Virtual Energy BTOTAL BEOTOTAL BEOTOTAL BEOTOTAL BEOTOTAL BEOTOTAL James Administration (Schedule 17) la Time Market Administration (Schedule 17) and Time Market Administration (Schedule 17) hancial Transmission Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation Beotomy Allocation Amount edule 24 Admin Allocation | - | \$ (3,40 \$ \$ \$ \$ \$ \$ | - 1 | - | \$ | 1 | | | - | S - |
| Virt | rtual Energy y Ahead Virtual Energy al Time Virtual Energy BTOTAL heedules 16, 17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Market Administration (Schedule 17) sy-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation Amount edule 24 Admin Allocation | - | \$ \$ \$ | 68,804.33) | - | \$ | - | - | \$ - | - | S - |
| 12 | y Ahead Virtual Energy al Time Virtual Energy BTOTAL itedules 56,17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) anacial Transmison Rights Administration (Schedule 18) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount edule 24 Admin Allocation Edule 24 Admin Allocation | - | \$ \$ \$ | - | | | (3,468,804.33) | - | \$ - | - | S - |
| Real | al Time Virtual Energy BTOTAL BTOTAL y Ahead Market Administration (Schedule 17) all Time Market Administration (Schedule 17) ala Time Market Administration (Schedule 17) ancial Transmission Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount al-Lime Schedule 24 Allocation Amount al-Lime Admin Allocation | - | \$ \$ \$ | - | | 0 | | | 2 | ļ | |
| SUL SUL SUL | BTOTAL fedules 16, 17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) al Time Market Administration (Schedule 17) ancial Transmison Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al-Time Schedule 24 Allocation Amount edule 24 Admin Allocation | - | \$ 60 | | - | \$ | - | - | \$ - | - | S - |
| Sch Sch | nedules 16, 17 & 24 y Ahead Market Administration (Schedule 17) al Time Market Administration (Schedule 17) ancial Transmission Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount al-dime Schedule 24 Allocation Amount al-dimedia 24 Admin Allocation | - - - | \$ 60 | | - | S | | | \$ - | - | S - |
| Dayset Dayset | y Ahead Market Administration (Schedule 17) all Time Market Administration (Schedule 17) anacial Transmission Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount acdule 24 Admin Allocation | - | | | | | | | | | İ |
| 229 Fina 33 Day 333 Day 334 Real 334 Real 50 50 50 50 50 50 50 50 50 50 50 50 50 | nancial Transmission Rights Administration (Schedule 16) y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount nedule 24 Admin Allocation | - - - | | 06,767.34 | = | \$ | 526,780.54 | = | \$ 79,986.80 | - | \$ 611.4 |
| 333 Day Real Suffer Cor Day Suffer Cor Suffer Cor Suffer Cor Suffer Cor Suffer Suffer Cor Suffer Suf | y-Ahead Schedule 24 Allocation Amount al -Time Schedule 24 Allocation Amount nedule 24 Admin Allocation | = = | | 65,841.91 | - | \$ | 58,837.36 | - | \$ 7,004.55 | - 1 | S - |
| 34 Real 35 Sch SUH Cor Cor Cor 11b Day 15b Day 111b Real 15 Real 22b Real 22 Day 24 Finn 36 Finn 36 Finn 36 Finn 37 Finn 38 Finn SUH RSC RSC RSC RSC RSC RSC RSC RSC RSC RSC | al -Time Schedule 24 Allocation Amount nedule 24 Admin Allocation | - | | 58,675.52 | - | \$ | 58,675.52 | - | \$ - | - 1 | \$ - |
| Superstands | nedule 24 Admin Allocation | | | 84,192.42 86,047.70) | - | \$ \$ | 71,743.31 15,585.94 | - | \$ 12,449.11 \$ (101,633.64) | - | \$ 80.6 \$ - |
| SUF Cor Cor Cor Cor Cor Cor Cor Cor Cor Cor | | - | S (c | 50,047.70) | - | S | 13,363.74 | - | s (101,033.04) | - | s - |
| Days Days | ******* | - | S 72 | 29,429.49 | - | \$ | 731,622.67 | - | \$ (2,193.18) |) - | \$ 692.0 |
| Day Day Day | ngestion & FTRs | | | | | | | | | | |
| Real | y Ahead Congestion | | | | | | | | | | |
| Real Page | y Ahead Non Asset Congestion | | | | | | | | | | |
| 2 Day 115 Real 228 Fina 230 Fina 330 Fina 331 Fina 331 Fina 336 Fina 337 Fina SUF RSC 110 Day 110 Day 224 Real 225 Real 43 Real | al Time Congestion al Time Non Asset Congestion | | | | | | | | | | |
| 115 Real 228 Fina 330 Fina 332 Fina 332 Fina 333 Fina 337 Fina 338 Fina SUF RSC 110 Day 111 Day 224 Real 225 Real 43 Real | y Ahead Financial Bilateral Transaction Congestion | _ | S (4 | 46,820.41) | - | s | (46,820.41) | - | s - | | s - |
| 228 Fina 330 Fina 332 Fina 331 Fina 336 Fina 337 Fina 338 Fina SUF RSO 110 Day 111 Day 224 Real 225 Real 43 Real | al Time Financial Bilateral Congestion | - | s | - | _ | s | - | - | s - | - | s - |
| 332 Fina 331 Fina 336 Fina 337 Fina 338 Fina SUF RSC RSC RSC RSC RSC RSC RSC RSC | nancial Transmission Rights Hourly Allocation | - | \$ (32,88 | 83,959.16) | - | \$ | (32,883,959.16) | - | \$ - | - 1 | S - |
| 331 Fina 336 Fina 337 Fina 338 Fina SUE RSC 110 Day 111 Day 224 Real 225 Real SUE | nancial Transmission Rights Monthly Allocation | - | | 22,124.90) | = | \$ | (322,124.90) | - | \$ - | - | S - |
| 36 Fina 37 Fina 38 Fina SUF RSC 10 Day 11 Day 24 Real 25 Real 43 Real SUF | nancial Transmission Rights Yearly Allocation | - | \$ | - | - | \$ | - | - | \$ - | - 1 | S - |
| 37 Fina 38 Fina SUF RSO 10 Day 11 Day 24 Real 25 Real 43 Real SUF | nancial Transmission Rights Transaction | - | \$ \$ 52 | | - | \$ | - | - | \$ - | - | S - |
| 38 Fina SUE RSC 10 Day 11 Day 24 Real 25 Real 43 Real SUE | nancial Transmission Rights Full Funding Guarantee Amount nancial Transmission Guarantee Uplift Amount | - | | 22,681.87 78,145.35) | - | S | 522,681.87 (478,145.35) | - | S - | - | S - |
| SUF RSC 10 Day 11 Day 24 Real 25 Real 43 Real SUF | nancial Transmission Rights Monthly Transaction Amount | - | S (4) | - | - | S | (470,143.33) | - | s - | _ | s - |
| 10 Day 11 Day 24 Real 25 Real 43 Real SUF | BTOTAL | - | \$ (33,20 | 08,367.95) | - | \$ | (33,208,367.95) | - | \$ - | - | S - |
| 11 Day 24 Real 25 Real 43 Real SUF | G & Make Whole Payments | | | بسعد | | | _ | | | | |
| 24 Real 25 Real 43 Real SUI | y Ahead Revenue Sufficiency Guarantee Distribution | - | | 11,870.31 | = | \$ | 211,870.31 | - | \$ - | - 1 | S - |
| 25 Real 43 Real SUI | y Ahead Revenue Sufficiency Make Whole Payment al Time Revenue Sufficiency Guarantee First Pass Distribution | - | | 06,552.26) 11,288.59 | - | \$ \$ | (475,855.32) 1,011,288.59 | - | \$ (330,696.94) \$ | - 1 | S - |
| 43 Real SUI | al Time Revenue Sufficiency Guarantee Pirst Pass Distribution al Time Revenue Sufficiency Guarantee Make Whole Payment | - | | 93,496.20) | - | S | (1,062,834.80) | - | \$ (630,661.40) | - 1 | S - |
| SUE | al Time Price Volatility Make Whole Payment | - | | 48,116.10) | - | S | (288,121.63) | - | \$ (159,994.47) |) | s - |
| Oth | BTOTAL | - | | 25,005.66) | - | \$ | (603,652.85) | - | \$ (1,121,352.81) | - | S - |
| | her Charges | | | | | | بنسمهم | | | | |
| | al Time Miscellaneous | - | | 92,732.56) | - | \$ | 647,776.17 | - | \$ (12,640,508.73) | - 1 | \$ 14.8 |
| | al Time Net Inadvertent Distribution al Time Revenue Neutrality Uplift Amount | - | | 46,142.15 88,940.74 | - | \$ \$ | 146,142.15 1,088,940.74 | - | \$ - \$ - | - | \$ 177.2 \$ - |
| | al Time Revenue Neutrality Uplift Amount al Time Uninstructed Deviation Amount | | s 1,00 | 50,240.74 | - | S | 1,088,940.74 | - | s | | s - |
| | BTOTAL | - | \$ (10,75 | 57,649.67) | - | \$ | 1,882,859.06 | - | \$ (12,640,508.73) | - | \$ 192.1 |
| Auc | ction Revenue Rights (ARR) | | | | | | | | | | |
| 39 Auc | ction Revenue Rights - FTR Auction Transactions | - | | 46,626.37 | - | \$ | 14,246,626.37 | - | \$ - | - | S - |
| | ction Revenue Rights - Monthly ARR Revenue | - | | 50,985.44) | - | \$ | (14,252,941.48) | = | \$ 1,956.04 | - 1 | S - |
| | ection Revenue Rights - ARR Stage 2 Distribution ection Revenue Rights - Monthly Infeasible ARR Revenue | - | | 05,336.30) 97,656.73 | - | \$ | (605,336.30) 97,656.73 | - | \$ - \$ - | - ! | S - |
| | BTOTAL | - | | 12,038.64) | - | S | (513,994.68) | | \$ 1.956.04 | - | S - |
| | | | . (5) | , | | | (313,22130) | | . 1,750.04 | | فيرون |
| 6 Day | andfathered Charge Types | - | | 48,099.32 | - | \$ | 48,099.32 | - | \$ - | - | S - |
| 7 Day | andfathered Charge Types y Ahead Congestion Rebate on Carve Out-Grandfathered | - | | 10,950.52 | - | \$ | 10,950.52 | - | \$ - | - | S - |
| B Day | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered | - | \$ | - | - | \$ | - | - | \$ - | - ' | S - |
| | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered | - | S | - | - | \$ | - | - | \$ - | - 1 | S - |
| | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered y Ahead Loss Rebate on Option B-Grandfathered | | 5 | - | - | \$ | = | - | \$ - | - ! | 8 - |
| to Keal | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered y Ahead Loss Rebate on Option B-Grandfathered al Time Loss Rebate on Carve Out Grandfathered | - | S : | 59.049.84 | - | S | 59.049.84 | - | S - | - | S - |
| | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered y Ahead Loss Rebate on Option B-Grandfathered latter Loss Rebate on Carve Out Grandfathered latter Congestion Rebate on Carve Out Grandfathered latter Congestion Rebate on Carve Out Grandfathered | - | | 43,332.43) | 73.071 | S | | | | 5.200 | \$ 559,409,1 |
| | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered y Ahead Loss Rebate on Option B-Grandfathered al Time Loss Rebate on Carve Out Grandfathered al Time Congestion Rebate on Carve Out Grandfathered BTOTAL. | (1,120,286) | 3 (57 Oz | | | | 22,047,589.23 | (1,193,357) | \$ (79,090,921.66) | | |
| Net | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered y Ahead Loss Rebate on Option B-Grandfathered latter Loss Rebate on Carve Out Grandfathered latter Congestion Rebate on Carve Out Grandfathered latter Congestion Rebate on Carve Out Grandfathered | (1,120,286) | | 15,079.91 | - | Ş | 22,047,589.23 39,615,079.91 | (1,193,357) | \$ (79,090,921.66) | - | S - |
| | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Loss Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered y Ahead Loss Rebate on Option B-Grandfathered al Time Loss Rebate on Carve Out Grandfathered al Time Congestion Rebate on Carve Out Grandfathered al Time Congestion Rebate on Carve Out Grandfathered BTOTAL. SO Day 2 Charges t Congestion Amount Loss Amount | (1,120,286) | \$ 39,61 \$ 11,40 | 15,079.91 64,034.83 | - | \$ \$ | 39,615,079.91 11,464,034.83 | (1,193,357) | \$ (79,090,921.66) \$ - \$ | - | \$ - \$ - |
| SUF | y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Carve Out-Grandfathered y Ahead Congestion Rebate on Option B-Grandfathered y Ahead Loss Rebate on Option B-Grandfathered al Time Loss Rebate on Carve Out Grandfathered al Time Congestion Rebate on Carve Out Grandfathered BTOTAL SO Day 2 Charges t Congestion Amount t Loss Amount t Congestion and Loss Energy Offset | (1,120,286) | \$ 39,61 \$ 11,40 | 15,079.91 | - | \$ \$ \$ | 39,615,079.91 | (1,193,357) | \$ - | - - - | \$ - \$ - \$ - |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | July 2022 | NET II | NVOICE | | RETAIL | INTERSYSTEM | - ASSET BASED | RSYSTEM - N | Page 7 of 1 NON-ASSET |
|----------|---|-------------|--|-----------|--|----------------|-----------------------|-------------|--------------------------|
| | Posting Account Description | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Revenue |
| | Day Ahead & Real Time Energy | NIWII | Net Cost | MWII | Revenue | M W II | Revenue | MWII | Revenue |
| 1a | Day Ahead Asset Energy | (853,892) | \$ (13,143,791.78) | 221,567 | \$ 51,525,717.46 | (1,075,459) \$ | (64,669,509.24) | - | S - |
| 5a | Day Ahead Non Asset Energy | (276,003) | \$ (17,551,896.89) | (276,003) | \$ (17,551,896.89) | - \$ | | 8,000 | \$ 585,587.7 |
| 13a | Real Time Asset Energy | | \$ (3,706,598.24) | 44,659 | \$ 972,805.69 | (95,177) \$ | (4,679,403.93) | - | \$ - |
| 22a | Real Time Non Asset Energy | | \$ (10,925.15) | (52) | \$ (10,925.15) | - \$ | ((0.240.042.47) | - 0.000 | \$ - |
| | SUBTOTAL Day Ahead & Real Time Energy Loss | (1,180,466) | \$ (34,413,212.06) | (9,830) | \$ 34,935,701.11 | (1,170,636) \$ | (69,348,913.17) | 8,000 | \$ 585,587.7 |
| 1c | Day Ahead Loss | | | | | | | | |
| 5c | Day Ahead Non Asset Loss | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | - 1 | \$ (6,928.60) | - | \$ (6,928.60) | - \$ | - | - | S - |
| 13c | Real Time Loss | | | | | | | | |
| 22c | Real Time Non Asset Loss Real Time Distribution Losses | | \$ (3.941.304.02) | | \$ (3.941.304.02) | | | | |
| 14 | Real Time Distribution Losses Real Time Financial Bilateral Loss | - | \$ (3,941,304.02) | - | \$ (3,941,304.02) | - S | - | - | \$ - |
| 10 | SUBTOTAL | | \$ (3,948,232.62) | | \$ (3,948,232.62) | - s | | - | S - |
| | Virtual Energy | | (0), 10)=0=0=) | | 4 (0,1 10,202102) | | | | , |
| 12 | Day Ahead Virtual Energy | - (| ş - | - | \$ - | - \$ | - | - | S - |
| 27 | Real Time Virtual Energy | - : | \$ - | - | \$ - | - \$ | - | - | S - |
| | SUBTOTAL | - : | S - | - | \$ - | - S | - | - | \$ - |
| | Schedules 16, 17 & 24 Day Ahead Market Administration (Schedule 17) | | \$ 760,965.07 | | \$ 671,719.58 | | 89,245.49 | | § 665.4 |
| 1 19 | Day Ahead Market Administration (Schedule 17) Real Time Market Administration (Schedule 17) | 1 | \$ 760,965.07 \$ 66,574.73 | - | \$ 671,719.58 \$ 58,646.62 | - S | 89,245.49 7,928.11 | - | \$ 665.4 \$ - |
| 29 | Financial Transmission Rights Administration (Schedule 16) | | \$ 00,574.73 \$ 10,560.47 | - | \$ 56,646.62 \$ 10,560.47 | - S | 7,928.11 | | S - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | | \$ 112,641.34 | - | \$ 100,589.10 | - s | 12.052.24 | | \$ 103.0 |
| 34 | Real -Time Schedule 24 Allocation Amount | - 1 | \$ (93,303.21) | - | \$ (9,916.23) | - S | (83,386.98) | - | S - |
| 35 | Schedule 24 Admin Allocation | - : | S - | - | \$ - | - \$ | | - | S - |
| | SUBTOTAL | - 1 | \$ 857,438.40 | - | \$ 831,599.54 | - \$ | 25,838.86 | - | \$ 768.4 |
| 1h | Congestion & FTRs | | | | | | | | |
| 1b 5b | Day Ahead Congestion Day Ahead Non Asset Congestion | | | | | | | | |
| | Real Time Congestion | | | | | | | | |
| 22b | | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - : | \$ (48,026.83) | - | \$ (48,026.83) | - S | - | - | S - |
| 15 | Real Time Financial Bilateral Congestion | - : | S - | - | \$ - | - \$ | - | - | S - |
| 28 | Financial Transmission Rights Hourly Allocation | | \$ (17,479,894.33) | - | \$ (17,479,894.33) | - \$ | - | - | S - |
| 30 | Financial Transmission Rights Monthly Allocation | | \$ (23,297.09) | - | \$ (23,297.09) | - \$ | - | - | S - |
| 32 31 | Financial Transmission Rights Yearly Allocation Financial Transmission Rights Transaction | I I | S - | - | \$ - \$ - | - \$ | - | - | S - |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | | \$ 279,916.93 | - | \$ 279,916.93 | - 5 | - | - | 9 - |
| 37 | Financial Transmission Guarantee Uplift Amount | | \$ (275,855.97) | - | \$ (275,855.97) | - s | _ | - | S - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | - 1 | s - | - | \$ - | - S | - | - | s - |
| | SUBTOTAL | - 1 | \$ (17,547,157.29) | - | \$ (17,547,157.29) | - \$ | - | - | S - |
| | RSG & Make Whole Payments | | | | | | | | |
| 10 | Day Ahead Revenue Sufficiency Guarantee Distribution | - 1 | \$ 251,491.25 | - | \$ 251,491.25 | - \$ | | - | S - |
| 11 24 | Day Ahead Revenue Sufficiency Make Whole Payment Real Time Revenue Sufficiency Guarantee First Pass Distribution | | \$ (436,847.79) \$ 524,869.57 | - | \$ (168,101.66) \$ 524,869.57 | - \$ - \$ | (268,746.13) | | S - |
| 24 25 | Real Time Revenue Sufficiency Guarantee Pirst Pass Distribution Real Time Revenue Sufficiency Guarantee Make Whole Payment | | \$ 524,869.57 \$ (708,077.27) | - | \$ 524,869.57 \$ (388,169.98) | - S | (319,907.29) | | S - |
| 43 | Real Time Price Volatility Make Whole Payment | | \$ (281,870.86) | - | \$ (165,731.28) | - s | (116,139.58) | - | S - |
| | SUBTOTAL | | \$ (650,435.10) | - | \$ 54,357.90 | - S | (704,793.00) | - | S - |
| | Other Charges | | | | | | | | |
| 20 | Real Time Miscellaneous | | \$ (12,767,678.05) | - | \$ 249,464.68 | - \$ | (13,017,142.73) | - | S - |
| 21 | Real Time Net Inadvertent Distribution | | \$ 115,159.91 | - | \$ 115,159.91 | - \$ | - | | \$ 88.8 |
| 23 26 | Real Time Revenue Neutrality Uplift Amount Real Time Uninstructed Deviation Amount | - | \$ 476,854.77 | - | \$ 476,854.77 | - S | - | - | S - |
| ∠0 | Real Time Uninstructed Deviation Amount SUBTOTAL | | \$ - \$ (12,175,663.37) | - | \$ 841,479.36 | - S | (13,017,142.73) | | S 88.8 |
| | Auction Revenue Rights (ARR) | | (14,17J,00J.37) | | y 0+1,+7,30 | - 3 | (1.7,017,144.73) | | y 00.0 |
| 39 | Auction Revenue Rights - FTR Auction Transactions | - 1: | \$ 14,246,626.37 | - | \$ 14,246,626.37 | - S | - | - | S - |
| 10 | Auction Revenue Rights - Monthly ARR Revenue | - 1 | \$ (14,250,985.44) | - | \$ (14,162,935.26) | - \$ | (88,050.18) | - | s - |
| 11 | Auction Revenue Rights - ARR Stage 2 Distribution | | \$ (605,336.38) | - | \$ (605,336.38) | - \$ | - 1 | - | S - |
| 12 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | | \$ 97,656.74 | - | \$ 97,656.74 | - \$ | - | - | S - |
| | SUBTOTAL | - 1 | \$ (512,038.71) | - | \$ (423,988.53) | - \$ | (88,050.18) | - | S - |
| | Grandfathered Charge Types Day Ahead Congestion Rebate on Carve Out-Grandfathered | | \$ 48,026.83 | | \$ 48,026.83 | e | | | e |
| | Day Ahead Loss Rebate on Carve Out-Grandfathered Day Ahead Loss Rebate on Carve Out-Grandfathered | 1 1 | \$ 48,026.83 \$ 6,928.60 | - | \$ 48,026.83 \$ 6,928.60 | - S | - | | S - |
| | Day Ahead Congestion Rebate on Option B-Grandfathered | | \$ 0,720.00 \$ - | _ | \$ 0,720.00 | - S | _ | _ | S - |
| | Day Ahead Loss Rebate on Option B-Grandfathered | - 1 | \$ - | - | \$ - | - \$ | - | - | s - |
| 7 | Real Time Loss Rebate on Carve Out Grandfathered | - 1: | S - | - | \$ - | - S | - | - | S - |
| 8 | Real Time Congestion Rebate on Carve Out Grandfathered | - : | \$ - | - | \$ - | - \$ | - | - | S - |
| | SUBTOTAL | | \$ 54,955.43 | | \$ 54,955.43 | - S | | | S - |
| | MISO Day 2 Charges | (1,180,466) | \$ (68,334,345.32) | (9,830) | \$ 14,798,714.90 | (1,170,636) \$ | (83,133,060.22) | 8,000 | \$ 586,445.0 |
| | Net Loss Amount | - 1 | \$ 25,176,879.16 \$ 13,379,529.86 | - | \$ 25,176,879.16 \$ 13,379,529.86 | - S | - | - | S - |
| , | Net Loss Amount Net Congestion and Loss Energy Offset | - 1 | \$ 13,379,529.86 \$ (38,556,409.02) | - | \$ 13,379,529.86 \$ (38,556,409.02) | - 5 | - | | S - |
| | SUBTOTAL | | \$ (50,550,409.02) | - | \$ (30,330,409.02) | - S | | - | S - |
| | Total MISO Day 2 Charges | (1,180,466) | \$ (68,334,345.32) | (9,830) | \$ 14,798,714.90 | (1,170,636) \$ | (83,133,060,22) | | \$ 586,445.0 |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | August 2022 | NET | INVOICE | | RETAIL | INTERSYST | EM - ASSET BASED | RSYSTEM - N | Page 8 of 13 NON-ASSET E |
|----------|---|-------------|---------------------------------------|-----------|--|---------------|-----------------------------------|--|-----------------------------|
| | Posting Account Description | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Revenue |
| | Day Ahead & Real Time Energy | 111 1111 | 1101 0001 | 112 1111 | петение | | Revenue | 112 11 11 | revenue |
| 1a | Day Ahead Asset Energy | (836,512) | \$ (3,403,613.95) | 211,476 | \$ 67,091,048.60 | (1,047,988) | \$ (70,494,662.55) | - | Ş - |
| 5a | Day Ahead Non Asset Energy | (289,152) | \$ (20,856,414.28) | (289,152) | \$ (20,856,414.28) | - | \$ - | 9,200 | \$ 766,983.25 |
| | Real Time Asset Energy | | \$ 884,281.63 | 99,882 | \$ 7,231,992.22 | (100,658) | \$ (6,347,710.59) | - | S - |
| 22a | Real Time Non Asset Energy SUBTOTAL | (1,126,438) | \$ (147.43) \$ (23,375,894.03) | 22.208 | \$ (147.43) \$ 53,466,479.11 | (1,148,646) | \$ (76,842,373.14) | 9.200 | \$ 766,983,25 |
| | Day Ahead & Real Time Energy Loss | (1,120,438) | \$ (23,375,894.03) | 22,208 | \$ 55,400,479.11 | (1,148,040) | \$ (/0,842,3/3.14) | 9,200 | \$ 700,983.23 |
| 1c | Day Ahead Loss | | | | | | | | |
| 5c | Day Ahead Non Asset Loss | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | - | \$ (10,996.72) | - | \$ (10,996.72) | - | \$ - | - | S - |
| 13c | Real Time Loss | | | | | | | | |
| 22c | Real Time Non Asset Loss | | \$ (3.520.667.46) | | e (2.520.677.46) | | e | | e |
| 16 | Real Time Distribution Losses Real Time Financial Bilateral Loss | - | \$ (3,520,667.46) | - | \$ (3,520,667.46) | - | 9 - | - | 5 - |
| 10 | SUBTOTAL | | \$ (3,531,664.18) | | \$ (3,531,664.18) | - | S - | - | S - |
| | Virtual Energy | | (0,001,00110) | | (0,000,000,000) | | * | | |
| 12 | Day Ahead Virtual Energy | - | S - | - | \$ - | - | \$ - | - | S - |
| 27 | Real Time Virtual Energy | - | \$ - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - | Ş - | - | \$ - | - | \$ - | - | S - |
| . | Schedules 16, 17 & 24 | | | | | | | | a 505.5- |
| 4 19 | Day Ahead Market Administration (Schedule 17) Real Time Market Administration (Schedule 17) | - | \$ 561,495.23 \$ 48,510.28 | - | \$ 551,895.11 \$ 49,596.59 | - | \$ 9,600.12 \$ (1,086.31) | - | \$ 597.28 \$ - |
| 29 | Real Time Market Administration (Schedule 17) Financial Transmission Rights Administration (Schedule 16) | | \$ 48,510.28 \$ 97,297.00 | _ | \$ 49,596.59 \$ 97,297.00 | | \$ (1,086.31) \$ - | [| S - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | | \$ 101.770.81 | _ | \$ 97,297.00 \$ 90.012.88 | | \$ 11.757.93 |] | \$ 107.36 |
| 34 | Real -Time Schedule 24 Allocation Amount | - | \$ (87,104.36) | _ | \$ 20,979.25 | _ | \$ (108,083.61) | | S - |
| 35 | Schedule 24 Admin Allocation | - | \$ - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - | \$ 721,968.96 | - | \$ 809,780.83 | - | \$ (87,811.87) | - | \$ 704.64 |
| | Congestion & FTRs | | | | | | | | |
| 1b | Day Ahead Congestion | | | | | | | | |
| 5b | Day Ahead Non Asset Congestion Real Time Congestion | | | | | | | | |
| 22b | Real Time Non Asset Congestion | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - | \$ (40,304.37) | _ | \$ (40,304.37) | - | S - | - | S - |
| 15 | Real Time Financial Bilateral Congestion | _ | S - | _ | \$ - | _ | \$ - | - | S - |
| 28 | Financial Transmission Rights Hourly Allocation | - | \$ (31,643,701.31) | - | \$ (31,643,701.31) | - | \$ - | - | S - |
| 30 | Financial Transmission Rights Monthly Allocation | - | \$ (676,846.58) | - | \$ (676,846.58) | - | \$ - | - | S - |
| 32 | Financial Transmission Rights Yearly Allocation | - | Ş - | - | \$ - | - | \$ - | - | S - |
| 31 | Financial Transmission Rights Transaction | - | S - | - | s - | - | \$ - | - | S - |
| 36 37 | Financial Transmission Rights Full Funding Guarantee Amount Financial Transmission Guarantee Uplift Amount | - | \$ (749,904.44) \$ 744,017.63 | - | \$ (749,904.44) \$ 744,017.63 | - | S - | - | S - |
| 38 | Financial Transmission Guarantee Upint Amount Financial Transmission Rights Monthly Transaction Amount | - | \$ /44,017.03 | - | \$ /44,017.03 | - | 9 - | - | 5 - |
| 50 | SUBTOTAL | | \$ (32,366,739.07) | - | \$ (32,366,739.07) | - | S - | - | S - |
| | RSG & Make Whole Payments | | (0-3000)(00101) | | (0-)000) | | * | | • |
| 10 | Day Ahead Revenue Sufficiency Guarantee Distribution | - | \$ 209,846.94 | - | \$ 209,846.94 | - | \$ - | - | S - |
| 11 | Day Ahead Revenue Sufficiency Make Whole Payment | - | \$ (144,012.39) | - | \$ (89,519.08) | - | \$ (54,493.31) | - | S - |
| 24 | Real Time Revenue Sufficiency Guarantee First Pass Distribution | - | \$ 684,416.26 | - | \$ 684,416.26 | - | \$ - | - | S - |
| 25 | Real Time Revenue Sufficiency Guarantee Make Whole Payment | - | \$ (1,256,217.88) | - | \$ (371,546.82) | - | \$ (884,671.06) | - | S - |
| 43 | Real Time Price Volatility Make Whole Payment SUBTOTAL | - | \$ (158,139.46) \$ (664,106.53) | - | \$ (112,320.29) \$ 320,877.01 | - | \$ (45,819.17) \$ (984,983.54) | - | S - |
| | Other Charges | - | § (004,100.55) | - | \$ 320,877.01 | - | \$ (984,983.54) | - | 3 - |
| 20 | Real Time Miscellaneous | _ | \$ (12,783,018.81) | _ | \$ 234,123.92 | _ | \$ (13,017,142.73) | - | \$ 87,74 |
| 21 | Real Time Net Inadvertent Distribution | - | \$ 91,273.37 | - | \$ 91,273.37 | - | \$ - | - | \$ (7.91 |
| 23 | Real Time Revenue Neutrality Uplift Amount | - | \$ 159,335.19 | - | \$ 159,335.19 | - | \$ - | - | \$ - |
| 26 | Real Time Uninstructed Deviation Amount | - | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - | \$ (12,532,410.25) | - | \$ 484,732.48 | - | \$ (13,017,142.73) | - | \$ 79.83 |
| 20 | Auction Revenue Rights (ARR) | | | | | | 2 | | 2 |
| 39 40 | Auction Revenue Rights - FTR Auction Transactions | - | \$ 14,246,626.37 | - | \$ 14,246,626.37 \$ (14,207,173,03) | - | \$ - e (42.010.14) | | 5 - |
| 40 41 | Auction Revenue Rights - Monthly ARR Revenue Auction Revenue Rights - ARR Stage 2 Distribution | - | \$ (14,250,985.44) \$ (605,336.65) | - | \$ (14,207,173.03) \$ (605,336.65) | - | \$ (43,812.41) \$ | - | S - S - |
| 42 | Auction Revenue Rights - ARR Stage 2 Distribution Auction Revenue Rights - Monthly Infeasible ARR Revenue | | \$ (005,530.05) \$ 97,656.73 | | \$ (005,536.05) \$ 97,656.73 | | S - | | s - |
| | SUBTOTAL | | \$ (512,038.99) | - | \$ (468,226.58) | - | \$ (43,812.41) | | S - |
| | Grandfathered Charge Types | | . , , , , , , , , , , , | | , ===== | | (, | | |
| 6 | Day Ahead Congestion Rebate on Carve Out-Grandfathered | - | \$ 40,304.37 | - | \$ 40,304.37 | - | \$ - | - | S - |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered | - | \$ 10,996.72 | - | \$ 10,996.72 | - | \$ - | - | \$ - |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | - | S - | - | ş - | - | \$ - | - | \$ - |
| 9 | Day Ahead Loss Rebate on Option B-Grandfathered | - | \$ - | - | s - | - | \$ - | - | S - |
| 17 18 | Real Time Loss Rebate on Carve Out Grandfathered | - | ş - | - | \$ - | - | 5 - | - | S - |
| 16 | Real Time Congestion Rebate on Carve Out Grandfathered SUBTOTAL | - | \$ 51,301.09 | - | \$ 51,301.09 | - | S - | - | s - |
| | MISO Day 2 Charges | (1,126,438) | \$ 51,301.09 \$ (72,209,583.00) | 22.208 | \$ 18,766,540.69 | (1.148.646) | \$ (90.976.123.69) | 9,200 | \$ 767.767.70 |
| x | Net Congestion Amount | (1,120,130) | \$ 42,015,676.22 | 22,200 | \$ 42,015,676.22 | (2,1-10,0-10) | \$ | -,200 | S - |
| y | Net Loss Amount | - | \$ 14,606,352.04 | - | \$ 14,606,352.04 | - | \$ - | - | S - |
| z | Net Congestion and Loss Energy Offset | | \$ (56,622,028.26) | <u> </u> | \$ (56,622,028.26) | - | S - | <u> </u> | S - |
| | SUBTOTAL | - | \$ - | | \$ - | - | \$ - | | S - |
| | Total MISO Day 2 Charges | (1,126,438) | \$ (72,209,583,00) | 22,208 | \$ 18,766,540,69 | (1,148,646) | \$ (90,976,123,69) | 9,200 | \$ 767,767,72 |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | September 2022 | NET | INVOICE | | RETAIL | INTERSYST | EM - ASSET BASED | RSYSTEM - | | e 9 of 13 |
|----------|--|-----------|--------------------------------------|----------|---------------------------------------|-------------|--|--|--------|-----------|
| | Posting Account Description | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Reve | |
| | Day Ahead & Real Time Energy | IVI W II | Net Cost | WWII | Revenue | M WII | Revenue | IVI W II | Keve | Hue |
| 1a | Day Ahead Asset Energy | (724,391) | \$ (3,068,256.55 | 247,824 | \$ 48,972,804.92 | (972,215) | \$ (52,041,061.47 | | S | _ |
| 5a | Day Ahead Non Asset Energy | (272,230) | \$ (17,274,136.93 | | \$ (17,274,136.93) | - | \$ - | - | s | - |
| | Real Time Asset Energy | 22,172 | \$ 2,380,819.02 | | \$ 4,486,026.99 | (62,589) | \$ (2,105,207.97 | - | S | - |
| 22a | Real Time Non Asset Energy | 629 | \$ (357,566.35 | | \$ (357,566.35) | - | \$ - | - | S | - |
| | SUBTOTAL | (973,820) | \$ (18,319,140.8) |) 60,984 | \$ 35,827,128.63 | (1,034,804) | \$ (54,146,269.44) | - | \$ | |
| 1c | Day Ahead & Real Time Energy Loss | | | | | | | | | |
| 1C | Day Ahead Loss Day Ahead Non Asset Loss | | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | _ | \$ (13,200.03 | | \$ (13,200.03) | | s - | - | S | |
| 13c | Real Time Loss | | (-0,2-000 | 1 | (10,20000) | | Ť | | ì | |
| 22c | Real Time Non Asset Loss | | | | | | | | | |
| 14 | Real Time Distribution Losses | - | \$ (2,792,430.88 | - | \$ (2,792,430.88) | - | \$ - | - | S | - |
| 16 | Real Time Financial Bilateral Loss | - | \$ - | - | \$ - | - | \$ - | - | S | |
| | SUBTOTAL | - | \$ (2,805,630.9) | - | \$ (2,805,630.91) | - | \$ - | - | S | |
| 12 | Virtual Energy Day Ahead Virtual Energy | | ç | | ¢ | | e | | c | |
| 27 | Real Time Virtual Energy | - | s - | - | 3 - | - | 9 | - | 2 | - |
| | SUBTOTAL | _ | S - | - | S - | - | s - | - | S | |
| | Schedules 16, 17 & 24 | | • | | * | | * | | _ | |
| 4 | Day Ahead Market Administration (Schedule 17) | - | \$ 794,149.20 | | \$ 636,515.17 | - | \$ 157,634.09 | - | | 113.28 |
| 19 | Real Time Market Administration (Schedule 17) | - | \$ 74,613.12 | | \$ 60,044.53 | - | \$ 14,568.59 | - | S | - |
| 29 | Financial Transmission Rights Administration (Schedule 16) | - | \$ (40,132.0 | | \$ (40,132.01) | - | \$ - | - | S | - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | - | \$ 107,874.12 | | \$ 94,369.96 | - | \$ 13,504.16 | - | S | 4.32 |
| 34 | Real -Time Schedule 24 Allocation Amount Schedule 24 Admin Allocation | - | \$ (95,418.00 | - | \$ (13,835.26) | - | \$ (81,582.80) | - | S | - |
| 33 | SUBTOTAL | - | \$ 841,086.43 | - | \$ 736,962.39 | - | \$ 104,124.04 | - | S | 117.60 |
| | Congestion & FTRs | - | ý 041,000.4. | - | 9 130,702.37 | - | 9 104,124.04 | _ | , | 117.00 |
| 1b | Day Ahead Congestion | | | | | | | | | |
| 5b | Day Ahead Non Asset Congestion | | | | | | | | | |
| | Real Time Congestion | | | | | | | | | |
| 22b | Real Time Non Asset Congestion | | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - | \$ (23,886.69 | - | \$ (23,886.69) | - | \$ - | - | S | - |
| 15 | Real Time Financial Bilateral Congestion | - | \$ - \$ (4.461.099.61 | - | \$ - | - | s - | - | S S | - |
| 28 30 | Financial Transmission Rights Hourly Allocation Financial Transmission Rights Monthly Allocation | - | \$ (4,461,099.61 \$ (72,810.41 | | \$ (4,461,099.61) \$ (72,810.45) | - | \$ - | - | 5 | - |
| 32 | Financial Transmission Rights Worldiny Allocation | | \$ (72,010.4. \$ - | , - | \$ (72,010.43) | | s - | _ | S | - |
| 31 | Financial Transmission Rights Transaction | _ | S - | _ | s - | _ | s - | _ | S | _ |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | - | \$ 749,614.98 | - | \$ 749,614.98 | - | s - | - | s | - |
| 37 | Financial Transmission Guarantee Uplift Amount | - | \$ (743,057.38 | - | \$ (743,057.38) | - | \$ - | - | S | - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | - | S - | - | \$ - | - | \$ - | - | S | - |
| | SUBTOTAL | - | \$ (4,551,239.15 | - | \$ (4,551,239.15) | - | \$ - | - | S | - |
| 10 | RSG & Make Whole Payments | | 04.244.6 | | 0.000 | | | | | |
| 11 | Day Ahead Revenue Sufficiency Guarantee Distribution Day Ahead Revenue Sufficiency Make Whole Payment | - | \$ 81,361.64 \$ (779,026.73 | | \$ 81,361.64 \$ (367,103.06) | - | \$ (411,923.67 | - | 5 | - |
| 24 | Real Time Revenue Sufficiency Guarantee First Pass Distribution | | \$ 356,531.35 | | \$ 356,531.35 | | \$ (411,923.07) \$ - | - | S | - |
| 25 | Real Time Revenue Sufficiency Guarantee Make Whole Payment | _ | \$ (426,555.65 | | \$ (485,338.96) | _ | \$ 58,783.31 | _ | S | _ |
| 43 | Real Time Price Volatility Make Whole Payment | - | \$ (247,002.93 | | \$ (190,215.25) | - | \$ (56,787.68) | - | s | - |
| | SUBTOTAL | - | \$ (1,014,692.32 |) - | \$ (604,764.28) | - | \$ (409,928.04) | - | S | - |
| | Other Charges | | | | | | | | | |
| 20 | Real Time Miscellaneous | - | \$ (11,481,921.43 | | \$ 1,115,313.47 | - | \$ (12,597,234.90) | - | S | - |
| 21 23 | Real Time Net Inadvertent Distribution | - | \$ 50,617.39 | | \$ 50,617.39 \$ 550,061.07 | - | \$ - \$ - | - | | (13.46 |
| 23 26 | Real Time Revenue Neutrality Uplift Amount Real Time Uninstructed Deviation Amount | - | \$ 550,061.07 | - | \$ 550,061.07 | - | ş - | - | S | - |
| 20 | SUBTOTAL | - | \$ (10,881,242.9) | 1 | \$ 1,715,991.93 | | \$ (12,597,234.90) | - | S | (13,46 |
| | Auction Revenue Rights (ARR) | | ± (10,001,272.7 | | ÷ 1,:15,771.73 | | ÷ (12,00,00,00,00,00,00,00,00,00,00,00,00,00 | | حيف | (10.10 |
| 39 | Auction Revenue Rights - FTR Auction Transactions | - | \$ 9,883,261.64 | - | \$ 9,883,261.64 | - | \$ - | - | S | - |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | - | \$ (9,903,009.97 |) - | \$ (9,866,376.32) | - | \$ (36,633.65) | - | S | - |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | - | \$ (497,087.4 | | \$ (497,087.41) | - | \$ - | - | S | - |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | - | \$ 240,801.85 | | \$ 240,801.85 | - | \$ - | - | S | - |
| | SUBTOTAL Characteristics of Characteristics and Characteristics of Cha | - | \$ (276,033.89 |) - | \$ (239,400.24) | | \$ (36,633.65 | - | \$ | _ |
| 6 | Grandfathered Charge Types Day Ahead Congestion Rebate on Carve Out-Grandfathered | | \$ 23,886.69 | | \$ 23,886.69 | | 9 | | s | |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered Day Ahead Loss Rebate on Carve Out-Grandfathered | | \$ 23,886.69 \$ 13,200.00 | | \$ 23,886.69 \$ 13,200.03 | 1 | S | | 5 | - |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | | \$ 15,200.0. \$ - | 1 | \$ 15,200.05 \$ - | 1 | s | 1 . | S | - |
| 9 | Day Ahead Loss Rebate on Option B-Grandfathered | - | s - | - | \$ - | - | s - | - | s | - |
| 17 | Real Time Loss Rebate on Carve Out Grandfathered | - | S - | - | s - | - | \$ - | - | s | - |
| 18 | Real Time Congestion Rebate on Carve Out Grandfathered | - | S - | - | \$ - | - | \$ - | - | S | - |
| L | SUBTOTAL | - | \$ 37,086.72 | | \$ 37,086.72 | - | \$ - | - | \$ | |
| | MISO Day 2 Charges | (973,820) | \$ (36,969,806.90 | | \$ 30,116,135.09 | (1,034,804) | \$ (67,085,941.99) | | S | 104.14 |
| x | Net Congestion Amount | - | \$ 12,738,493.81 \$ 8 979 150.45 | | \$ 12,738,493.81 | - | \$ - \$ - | - | S S | - |
| y | Net Loss Amount Net Congestion and Loss Energy Offset | - | \$ 8,979,150.45 \$ (21,717,644.20 | | \$ 8,979,150.45 \$ (21,717,644.26) | - | 9 - | 1 - | 5 | - |
| Z | Net Congestion and Loss Energy Offset SUBTOTAL | | \$ (21,/1/,644.20 \$ - | - | \$ (21,/1/,644.26) | | S | | S | ÷ |
| | Total MISO Day 2 Charges | (973,820) | • | 60,984 | \$ 30,116,135.09 | | \$ (67,085,941,99 | | | |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | October 2022 | NET | INVOICE | | RETAIL | INTEREVETE | EM - ASSET BASED | DEVETEM | Page 10 of 13 NON-ASSET B |
|----------|---|------------------|--------------------------------------|-----------|--------------------------------------|---------------|----------------------------------|---------|------------------------------|
| | | | | | | | | | |
| | Posting Account Description Day Ahead & Real Time Energy | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Revenue |
| 10 | Day Ahead Asset Energy | (846,359) | \$ 3,702,483.01 | 209,292 | \$ 35,715,307.64 | (1,055,650) | \$ (32,012,824.63) | | s - |
| 5a | Day Ahead Non Asset Energy | (282,122) | \$ (12,561,148.20) | (282,122) | \$ (12,561,148.20) | (1,000,000) | \$ (22,012,021.00) | 'l - | s - |
| 13a | Real Time Asset Energy | 9,565 | \$ 937,370.02 | 98,337 | \$ 3,735,851.93 | (88,772) | \$ (2,798,481.91) | - | s - |
| 22a | Real Time Non Asset Energy | 319 | \$ 458,048.10 | 319 | \$ 458,048.10 | - 1 | \$ - | - | S - |
| | SUBTOTAL | (1,118,596) | \$ (7,463,247.07) | 25,826 | \$ 27,348,059.47 | (1,144,422) | \$ (34,811,306.54) | - | S - |
| | Day Ahead & Real Time Energy Loss | | | | | | | | |
| 1c | Day Ahead Loss | | | | | | | | |
| 5c | Day Ahead Non Asset Loss | | | | \$ (4.126.88) | | | | - |
| 3 13c | Day Ahead Financial Bilateral Transaction Loss Real Time Loss | - | \$ (4,126.88) | - | \$ (4,126.88) | - | \$ - | - | S - |
| 22c | Real Time Loss Real Time Non Asset Loss | | | | | | | | |
| 14 | Real Time Distribution Losses | _ | \$ (1,616,198.25) | _ | \$ (1,616,198.25) | - | S - | - | s - |
| 16 | Real Time Financial Bilateral Loss | _ | \$ 8.31 | _ | \$ 8.31 | - | s - | _ | s - |
| | SUBTOTAL | - | \$ (1,620,316.82) | - | \$ (1,620,316.82) | - | \$ - | - | S - |
| | Virtual Energy | | | | | | | | |
| 12 | Day Ahead Virtual Energy | - | S - | - | \$ - | - | \$ - | - | S - |
| 27 | Real Time Virtual Energy | - | S - | - 3 | \$ - | - | Ş - | - | S - |
| | SUBTOTAL | - | \$ - | - | \$ - | - | \$ - | - | S - |
| Ţ. | Schedules 16, 17 & 24 | | 8 542.055 | | | | | | 2 |
| 4 19 | Day Ahead Market Administration (Schedule 17) | - | \$ 542,953.21 \$ 56,164.00 | - | \$ 463,400.08 | - | \$ 79,553.13 \$ 6,397.38 | - | s - |
| 19 29 | Real Time Market Administration (Schedule 17) Financial Transmission Rights Administration (Schedule 16) | - | \$ 56,164.99 \$ 21,039.77 | - | \$ 49,767.61 \$ 21,039.77 | | \$ 6,397.38 \$ | - | S - S - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | - | \$ 21,039.77 \$ 96,905.88 | - | \$ 21,039.77 \$ 82,535.70 | | \$ 14,370.18 |] | \$ 0.32 |
| 34 | Real -Time Schedule 24 Allocation Amount | | \$ (82,788.98) | | \$ 5,569.63 | | \$ (88,358.61) | | S - |
| 35 | Schedule 24 Admin Allocation | _ | \$ (02,700.70) | _ | S - | - | \$ - | 1 - | s - |
| | SUBTOTAL | - | \$ 634,274.87 | - | \$ 622,312.79 | - | \$ 11,962.08 | - | \$ 0.32 |
| | Congestion & FTRs | | | | | | , | | |
| 1b | Day Ahead Congestion | | | | | | | | |
| 5b | Day Ahead Non Asset Congestion | | | | | | | | |
| 13b | Real Time Congestion | | | | | | | | |
| 22b | Real Time Non Asset Congestion | | | | | | | | _ |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - | \$ 923.80 | - | \$ 923.80 | | \$ - | - | S - |
| 15 | Real Time Financial Bilateral Congestion | - | \$ 86.65 | - | \$ 86.65 | - | \$ - | - | S - |
| 28 | Financial Transmission Rights Hourly Allocation Financial Transmission Rights Monthly Allocation | - | \$ (2,183,842.20) \$ (200,765.40) | - | \$ (2,183,842.20) \$ (200,765.40) | - | · - | - | |
| 32 | Financial Transmission Rights Yearly Allocation | - | \$ (200,703.40) \$ - | - | \$ (200,703.40) \$ - | - | s - | - | s - |
| 31 | Financial Transmission Rights Transaction | | S - | _ | S - | | s - | _ | s - |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | _ | \$ (182,284.97) | _ | \$ (182,284.97) | - | s - | _ | s - |
| 37 | Financial Transmission Guarantee Uplift Amount | - | \$ 177,556.08 | - | \$ 177,556.08 | - | s - | - | s - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | - | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | , | \$ (2,388,326.04) | 1 | \$ (2,388,326.04) | - | \$ - | - | S - |
| | RSG & Make Whole Payments | | | | | | | | |
| 10 | Day Ahead Revenue Sufficiency Guarantee Distribution | - | \$ 105,247.84 | - | \$ 105,247.84 | - | ş - | - | S - |
| 11 | Day Ahead Revenue Sufficiency Make Whole Payment | = | \$ (321,128.68) | - | \$ (180,568.34) | | \$ (140,560.34) | - | S - |
| 24 25 | Real Time Revenue Sufficiency Guarantee First Pass Distribution | - | \$ 122,490.20 | - | \$ 122,490.20 | | \$ - \$ (64.252.59) | - | S - |
| 43 | Real Time Revenue Sufficiency Guarantee Make Whole Payment Real Time Price Volatility Make Whole Payment | - | \$ (67,500.22) \$ (135,816.23) | - | \$ (3,247.63) \$ (95,970.77) | - | \$ (64,252.59) \$ (39,845.46) | - | S - |
| 4.5 | SUBTOTAL | - | \$ (296,707.09) | - | \$ (52,048.70) | - | \$ (244,658.39) | - | S - |
| | Other Charges | | g (270,707.09) | _ | g (32,048.70) | | g (244,036.39) | _ | - |
| 20 | Real Time Miscellaneous | - | \$ (12,848,083.13) | - | \$ 169,059.60 | _ | \$ (13,017,142.73) | - | S - |
| 21 | Real Time Net Inadvertent Distribution | - | \$ (251,384.23) | - | \$ (251,384.23) | | \$ - |] - | \$ (5.00 |
| 23 | Real Time Revenue Neutrality Uplift Amount | - | \$ 897,100.36 | - | \$ 897,100.36 | | \$ - | - | s - |
| 26 | Real Time Uninstructed Deviation Amount | - | S - | | \$ - | | \$ - | | S - |
| L | SUBTOTAL | - | \$ (12,202,367.00) | - | \$ 814,775.73 | - | \$ (13,017,142.73) | - | \$ (5.00 |
| | Auction Revenue Rights (ARR) | | | | | | | | الكالكات |
| 39 | Auction Revenue Rights - FTR Auction Transactions | - | \$ 9,883,261.64 | - | \$ 9,883,261.64 | - | \$ - | - | S - |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | - | \$ (9,903,009.97) | - | \$ (9,865,506.98) | | \$ (37,502.99) | - | S - |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | - | \$ (497,086.80) | - | \$ (497,086.80) | | \$ - | - | S - |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue SUBTOTAL | - | \$ 240,801.85 \$ (276,033.28) | - | \$ 240,801.85 \$ (238.530,29) | | \$ - \$ (37.502.99) | | S - |
| | Grandfathered Charge Types | - | a (2/6,033.28) | _ | g (238,530.29) | - | g (57,502.99) | - | · - |
| 6 | Day Ahead Congestion Rebate on Carve Out-Grandfathered | | \$ (923.80) | | \$ (923.80) | | S | | S |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered | _ | \$ 4,126.88 | _ | \$ (923.80) \$ 4,126.88 | | \$ - |] | s - |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | _ | S - | _ | \$ - | | s - | - | s - |
| 9 | Day Ahead Loss Rebate on Option B-Grandfathered | - | S - | - | \$ - | - | \$ - | - | S - |
| 17 | Real Time Loss Rebate on Carve Out Grandfathered | - | \$ (8.31) | - | \$ (8.31) | - | \$ - | - | S - |
| 18 | Real Time Congestion Rebate on Carve Out Grandfathered | _ | \$ (86.65) | | \$ (86.65) | - | \$ - | | S - |
| | SUBTOTAL | - | \$ 3,108.12 | - | \$ 3,108.12 | | \$ - | - | S - |
| | MISO Day 2 Charges | (1,118,596) | \$ (23,609,614.31) | 25,826 | \$ 24,489,034.26 | (1,144,422) | \$ (48,098,648.57) | - | \$ (4.68 |
| x | Net Congestion Amount | - | \$ 16,454,866.06 | - | \$ 16,454,866.06 | | \$ - | - | S - |
| y | Net Loss Amount | - | \$ 6,817,704.38 | - | \$ 6,817,704.38 | - | \$ - | - | S - |
| z | Net Congestion and Loss Energy Offset | - | \$ (23,272,570.44) | - | \$ (23,272,570.44) | - | \$ - | - | 5 - |
| | SUBTOTAL Total MISO Dec 2 Characteristics | - /4-440-50-0 | 6 (22-60-64) | -25.001 | \$ - 0 24 400 022 | - (1.444.426) | 6 (40,000,640 | | \$ - |
| | Total MISO Day 2 Charges | (1,118,596) | \$ (23,609,614.31) | 25,826 | \$ 24,489,034.26 | (1,144,422) | \$ (48,098,648.57) | - | \$ (4.68 |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | November 2022 | NIPT | INVOICE | | RETAIL | NITEDEVETT | EM - ASSET BASED | Deveren | Page 11 of 1 NON-ASSET |
|----------|--|--------------------------|---|-----------|--------------------------------------|-------------|------------------------------|---------|---------------------------|
| | | | | | | | | | |
| | Posting Account Description Day Ahead & Real Time Energy | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Revenue |
| 1a | Day Ahead Asset Energy | (751,708) | \$ 5,586,481.09 | 156,762 | \$ 27,866,636.03 | (908,469) | \$ (22,280,154.94) | - | S - |
| 5a | Day Ahead Non Asset Energy | (188,467) | \$ (6,015,290.26) | | \$ (6,015,290.26) | - | \$ - | - | \$ - |
| | Real Time Asset Energy | (136,821) | \$ (4,309,271.45) | (4,800) | \$ (1,608,040.31) | (132,022) | \$ (2,701,231.14) | - | S - |
| 22a | Real Time Non Asset Energy | - | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL Day Ahead & Real Time Energy Loss | (1,076,996) | \$ (4,738,080.62) | (36,505) | \$ 20,243,305.46 | (1,040,491) | \$ (24,981,386.08) | - | \$ - |
| 1c | Day Ahead & Real Time Energy Loss Day Ahead Loss | | | | | | | | |
| 5c | Day Ahead Non Asset Loss | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | - | \$ (2,359.55) | - | \$ (2,359.55) | - | \$ - | - | S - |
| 13c | Real Time Loss | | | | | | | | |
| | Real Time Non Asset Loss | | | | | | | | |
| 14 | Real Time Distribution Losses Real Time Financial Bilateral Loss | - | \$ (1,382,854.66) | - | \$ (1,382,854.66) | - | \$ - | - | S - |
| 16 | SUBTOTAL | - | \$ (1,385,214.21) | - | \$ (1,385,214.21) | - | \$ - | - | S - |
| | Virtual Energy | - | ý (1,303,214.21) | - | ş (1,303,214.21) | - | , | _ | 9 |
| 12 | Day Ahead Virtual Energy | - | S - | - | \$ - | - | \$ - | - | S - |
| 27 | Real Time Virtual Energy | - | Ş - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - | S - | - | \$ - | - | \$ - | - | S - |
| | Schedules 16, 17 & 24 | | e | | 6 50455 | | e 00.44: | | e |
| 4 19 | Day Ahead Market Administration (Schedule 17) Real Time Market Administration (Schedule 17) | - | \$ 676,989.99 \$ 91,207.09 | - | \$ 594,578.91 \$ 78,625.02 | - | \$ 82,411.08 \$ 12,582.07 | - | S - |
| 29 | Financial Transmission Rights Administration (Schedule 16) | | \$ 91,207.09 \$ 21,607.54 | | \$ 78,625.02 \$ 21,607.54 | | \$ 12,582.07 \$ - | | s - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | | \$ 103,151.64 | | \$ 90,143.53 | | \$ 13,008.11 | _ | S - |
| 34 | Real -Time Schedule 24 Allocation Amount | - | \$ (89,557.94) | - 1 | \$ 9,019.09 | - | \$ (98,577.03) | - | s - |
| 35 | Schedule 24 Admin Allocation | - | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - | \$ 803,398.32 | - | \$ 793,974.09 | - | \$ 9,424.23 | - | S - |
| | Congestion & FTRs | | | | | | | | |
| 1b 5b | Day Ahead Congestion Day Ahead Non Asset Congestion | | | | | | | | |
| | Real Time Congestion | | | | | | | | |
| 22b | | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - | \$ (14,831.27) | - | \$ (14,831.27) | - | \$ - | - | S - |
| 15 | Real Time Financial Bilateral Congestion | - | S - | - | \$ - | - | Ş - | - | S - |
| 28 | Financial Transmission Rights Hourly Allocation | - | \$ (251,163.01) | - | \$ (251,163.01) | - | \$ - | - | S - |
| 30 | Financial Transmission Rights Monthly Allocation | = | \$ (29,038.67) | - | \$ (29,038.67) | - | \$ - | - | S - |
| 32 31 | Financial Transmission Rights Yearly Allocation Financial Transmission Rights Transaction | - | \$ - \$ - | - | \$ - \$ - | - | \$ - | - | S - |
| 36 | Financial Transmission Rights Transaction Financial Transmission Rights Full Funding Guarantee Amount | - | \$ 157,510.41 | - | \$ 157,510.41 | - | \$ - | - | 5 - |
| 37 | Financial Transmission Rights Puli Funding Guarantee Amount Financial Transmission Guarantee Uplift Amount | | \$ (155,562.07) | - | \$ (155,562.07) | - | \$ - | _ | s - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | _ | \$ - | _ | \$ - | - | \$ - | - | s - |
| | SUBTOTAL | - | \$ (293,084.61) | - | \$ (293,084.61) | - | \$ - | - | S - |
| | RSG & Make Whole Payments | | | | | | | | |
| 10 | Day Ahead Revenue Sufficiency Guarantee Distribution | - | \$ 132,559.47 | - | \$ 132,559.47 | - | \$ - | - | S - |
| 11 24 | Day Ahead Revenue Sufficiency Make Whole Payment Real Time Revenue Sufficiency Guarantee First Pass Distribution | - | \$ (206,009.56) \$ 424,622.29 | - | \$ (33,472.19) \$ 424,622.29 | | \$ (172,537.37) | - | S - |
| 25 | Real Time Revenue Sufficiency Guarantee First Pass Distribution Real Time Revenue Sufficiency Guarantee Make Whole Payment | - | \$ 424,622.29 \$ (600,184.88) | - | \$ 424,622.29 \$ (272,931.89) | | \$ - \$ (327,252.99) | - | S - |
| 43 | Real Time Price Volatility Make Whole Payment | | \$ (227,617.40) | _ | \$ (155,662.62) | _ | \$ (71,954.78) | | S - |
| 1 | SUBTOTAL | - | \$ (476,630.08) | - | \$ 95,115.06 | - | \$ (571,745.14) | | S - |
| | Other Charges | | | | | | | | |
| 20 | Real Time Miscellaneous | - 1 | \$ (12,536,231.27) | | \$ 61,003.63 | | \$ (12,597,234.90) | - | S - |
| 21 | Real Time Net Inadvertent Distribution | - | \$ 186,071.21 | - | \$ 186,071.21 | | \$ - | - | \$ (1.7 |
| 23 26 | Real Time Revenue Neutrality Uplift Amount Real Time Uninstructed Deviation Amount | - | \$ (571,997.75) | - 1 | \$ (571,997.75) | - | \$ - | - | S - |
| 20 | Real Time Uninstructed Deviation Amount SUBTOTAL | | \$ (12,922,157.81) | | \$ (324,922.91) | - | \$ (12,597,234.90) | - | S (1.7 |
| | Auction Revenue Rights (ARR) | | · (************************************ | | - (327,722.91) | | - (+2,00,1,00,1+.20) | | ¥ (1./ |
| 39 | Auction Revenue Rights - FTR Auction Transactions | - | \$ 9,883,261.64 | - | \$ 9,883,261.64 | - | \$ | - | S - |
| 40 | Auction Revenue Rights - Monthly ARR Revenue | - | \$ (9,903,009.97) | - | \$ (9,864,790.03) | | \$ (38,219.94) | - | S - |
| 41 | Auction Revenue Rights - ARR Stage 2 Distribution | - | \$ (497,086.80) | - 1 | \$ (497,086.80) | -] | \$ - | - | S - |
| 42 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | - | \$ 240,884.14 \$ (275,950.99) | - | \$ 240,884.14 | - | \$ - \$ (38.219.94) | - | S - |
| | SUBTOTAL Grandfathered Charge Types | - | § (275,950.99) | - | \$ (237,731.05) | - | \$ (38,219.94) | | ş - |
| 6 | Day Ahead Congestion Rebate on Carve Out-Grandfathered | | \$ 14,831.27 | | \$ 14,831.27 | | S | _ | S - |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered | | \$ 2,359.55 | | \$ 2,359.55 | | s - | | S - |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | - | \$ - | - | \$ - | - | \$ - | - | \$ - |
| 9 | Day Ahead Loss Rebate on Option B-Grandfathered | - | S - | - | \$ - | - | \$ - | - | S - |
| 17 | Real Time Loss Rebate on Carve Out Grandfathered | - | \$ - | - | \$ - | - | \$ - | - | S - |
| 18 | Real Time Congestion Rebate on Carve Out Grandfathered | - | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL MISO Day 2 Character | (4.0 2 6.05.0 | \$ 17,190.82 | -(24-503) | \$ 17,190.82 | | \$ - (28.170.161.82) | - | \$ - |
| | MISO Day 2 Charges | (1,076,996) | \$ (19,270,529.18) \$ 14,398,706.83 | (36,505) | \$ 18,908,632.65 \$ 14,398,706.83 | (1,040,491) | \$ (38,179,161.83) | - | \$ (1.7 S |
| x v | Net Congestion Amount Net Loss Amount | | \$ 14,398,706.83 \$ 7,605,318.11 | | \$ 14,398,706.83 \$ 7,605,318.11 | | S - | | S - |
| y Z | Net Congestion and Loss Energy Offset | | \$ (22,004,024.94) | | \$ (22,004,024.94) | | \$ - | | s - |
| - | SUBTOTAL | - | \$ - | - | \$ - | - | \$ - | - | S - |
| | Total MISO Day 2 Charges | (1.076,996) | \$ (19,270,529.18) | (36,505) | \$ 18,908,632.65 | (1,040,491) | \$ (38,179,161,83) | - | s (1.7 |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | December 2022 | NET II | NVOICE | | RETAIL | INTERSVETE | EM - ASSET BASED | RSYSTEM - N | NON-ASSET |
|----------|--|-----------|--------------------------------------|-----------|---------------------------------------|-------------|------------------------------------|-----------------|--------------------|
| | Posting Account Description | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Revenue |
| | Posting Account Description Day Ahead & Real Time Energy | MWh | Net Cost | MWh | Revenue | MWh | Revenue | MWh | Revenue |
| a | Day Ahead Asset Energy | (729,433) | \$ (7,117,614.04 | 282,848 | \$ 33,989,166.04 | (1,012,280) | \$ (41,106,780.08) | - | S - |
| 5a | Day Ahead Non Asset Energy | (180,384) | | (180,384) | \$ (8,204,768.96) | - | \$ - | | \$ 733,111.00 |
| 13a | Real Time Asset Energy | 78,808 | \$ 1,887,649.41 | 308,671 | \$ 15,346,078.59 | (229,863) | \$ (13,458,429.18) | | S - |
| 22a | Real Time Non Asset Energy | | \$ (89,695.88) | (450) | \$ (89,695.88) | - | \$ - | - | Ş - |
| | SUBTOTAL | (831,458) | \$ (13,524,429.47) | 410,685 | \$ 41,040,779.79 | (1,242,143) | \$ (54,565,209.26) | 16,800 | \$ 733,111.00 |
| lc | Day Ahead & Real Time Energy Loss Day Ahead Loss | | | | | | | | |
| ic ic | Day Ahead Non Asset Loss | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | - : | \$ 5,716.43 | - | \$ 5,716.43 | - | \$ - | - | S - |
| 13c | Real Time Loss | | | | | | | | |
| 22c | Real Time Non Asset Loss | | | | | | | | |
| 6 | Real Time Distribution Losses | - 1 | \$ (2,144,781.20) | - | \$ (2,144,781.20) | - | \$ - | - | S - |
| 6 | Real Time Financial Bilateral Loss SUBTOTAL | | \$ (2,139,064.77 | - | \$ (2,139,064.77) | - | \$ - \$ - | - | \$ - |
| | Virtual Energy | - | 9 (2,137,004.77) | | g (2,137,004.77) | _ | - | | , |
| 2 | Day Ahead Virtual Energy | - : | S - | - | \$ - | - | \$ - | - | S - |
| 27 | Real Time Virtual Energy | - : | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - : | ş - | - | \$ - | - | \$ - | - | S - |
| | Schedules 16, 17 & 24 | | | | | | | | |
| 9 | Day Ahead Market Administration (Schedule 17) Real Time Market Administration (Schedule 17) | - 1 | \$ 569,229.19 \$ 54,195.25 | - | \$ 497,332.27 \$ 39,195.71 | - | \$ 71,896.92 \$ 14,999.54 | | \$ 1,169.2 \$ |
| 19 29 | Financial Transmission Rights Administration (Schedule 16) | | \$ 54,195.25 \$ 19,853.54 | 1 | \$ 39,195.71 \$ 19,853.54 | | \$ 14,999.54 \$ - | | S - |
| 33 | Day-Ahead Schedule 24 Allocation Amount | | \$ 108,675.75 | _ | \$ 95,168.22 | | \$ 13,507,53 | | \$ 225.1 |
| 34 | Real -Time Schedule 24 Allocation Amount | - : | | - | \$ 11,461.10 | - | \$ (115,736.54) | | s - |
| 35 | Schedule 24 Admin Allocation | - : | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - : | \$ 647,678.29 | - | \$ 663,010.84 | - | \$ (15,332.55) | - | \$ 1,394.4 |
| 1h | Congestion & FTRs | | | | | | | | |
| ть 5b | Day Ahead Congestion Day Ahead Non Asset Congestion | | | | | | | | |
| | Real Time Congestion | | | | | | | | |
| 22b | Real Time Non Asset Congestion | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - : | \$ (19,113.41) | - | \$ (19,113.41) | - | \$ - | - | S - |
| 5 | Real Time Financial Bilateral Congestion | - : | ş - | - | \$ - | - | ş - | - | S - |
| 28 | Financial Transmission Rights Hourly Allocation | - 1 | | - | \$ (6,612,732.28) | - | \$ - | - | S - |
| 80 | Financial Transmission Rights Monthly Allocation | - 1 | | - | \$ (95,289.88) | - | \$ - | | S - |
| 32 | Financial Transmission Rights Yearly Allocation Financial Transmission Rights Transaction | - | * | - | \$ - \$ - | - | ş - | - | S - |
| 81 86 | Financial Transmission Rights Full Funding Guarantee Amount | | \$ (120,099.63 | - | \$ (120,099.63) | - | , - | - | 5 - |
| 37 | Financial Transmission Guarantee Uplift Amount | | | _ | \$ 123,032.52 | - | s - | - | S - |
| 38 | Financial Transmission Rights Monthly Transaction Amount | - 1 | S - | - | \$ - | - | \$ - | - | s - |
| | SUBTOTAL | - : | \$ (6,724,202.68) | - | \$ (6,724,202.68) | - | \$ - | - | S - |
| | RSG & Make Whole Payments | | | | | | | | |
| 0 | Day Ahead Revenue Sufficiency Guarantee Distribution | | \$ 179,197.28 | | \$ 179,197.28 | - | \$ - | - | S - |
| 1 | Day Ahead Revenue Sufficiency Make Whole Payment Real Time Revenue Sufficiency Guarantee First Pass Distribution | | \$ (121,230.65) \$ 2,081,269.37 | - | \$ (68,120.74) \$ 2,081,269.37 | | \$ (53,109.91) \$ | | S - |
| 25 | Real Time Revenue Sufficiency Guarantee Pirst Pass Distribution Real Time Revenue Sufficiency Guarantee Make Whole Payment | | | | \$ 2,081,269.37 \$ (1,280,098.35) | | \$ (666,830.73) | | S - |
| 13 | Real Time Price Volatility Make Whole Payment | | \$ (640,622.73 | | \$ (525,376.66) | - | \$ (000,030.73) \$ (115,246.07) |) - | S - |
| | SUBTOTAL | | \$ (448,315.81 | - | \$ 386,870.90 | - | \$ (835,186.71) | | S - |
| | Other Charges | | | | | | | | |
| 20 | Real Time Miscellaneous | | \$ (13,811,390.33) | - | \$ (794,247.60) | - | \$ (13,017,142.73) | | \$ (23.4 |
| 21 | Real Time Net Inadvertent Distribution | | \$ 606,843.10 | - | \$ 606,843.10 | | \$ - | | \$ 1,285.9 |
| 23 | Real Time Revenue Neutrality Uplift Amount | - | \$ (1,961,545.52) | - | \$ (1,961,545.52) | - | \$ - | - | S - |
| 26 | Real Time Uninstructed Deviation Amount SUBTOTAL | | \$ (15,166,092.75 | - | \$ (2,148,950.02) | - | \$ - \$ (13,017,142.73) | - | \$ - \$ 1,262.4 |
| | Auction Revenue Rights (ARR) | | g (15,100,092./5 | | g (2,140,730.02) | | g (13,017,142.73) | المتعدد المتعدد | 1,202.4 |
| 9 | Auction Revenue Rights - FTR Auction Transactions | - 1 | \$ 15,777,513.01 | - | \$ 15,777,513.01 | - | \$ - | - | S - |
| 0 | Auction Revenue Rights - Monthly ARR Revenue | | \$ (15,782,515.07) | - | \$ (15,607,242.17) | - | \$ (175,272.90) | - | S - |
| 11 | Auction Revenue Rights - ARR Stage 2 Distribution | - : | | - | \$ (683,288.39) | | \$ - | - | S - |
| 2 | Auction Revenue Rights - Monthly Infeasible ARR Revenue | | \$ 89,943.30 | - | \$ 89,943.30 | | \$ - | - | S - |
| | SUBTOTAL | - | \$ (598,347.15 | - | \$ (423,074.25) | - | \$ (175,272.90) | - | \$ - |
| | Grandfathered Charge Types Day Ahead Congestion Rebate on Carve Out-Grandfathered | | \$ 19,113.41 | | \$ 19,113.41 | | e | | c |
| | Day Ahead Loss Rebate on Carve Out-Grandfathered Day Ahead Loss Rebate on Carve Out-Grandfathered | | | | \$ 19,113.41 \$ (5,716.43) | | \$ - \$ - | | S - |
| | Day Ahead Congestion Rebate on Option B-Grandfathered | | | 1 | \$ (5,710.45) | | \$ - | | S - |
| | Day Ahead Loss Rebate on Option B-Grandfathered | - 1 | ş - | - | \$ - | - | \$ - | - | S - |
| 7 | Real Time Loss Rebate on Carve Out Grandfathered | - : | S - | - | \$ - | - | \$ - | - | S - |
| 8 | Real Time Congestion Rebate on Carve Out Grandfathered | - : | S - | - | \$ - | - | \$ - | - | S - |
| | SUBTOTAL | - | | | \$ 13,396.98 | | \$ - | | \$ - |
| | MISO Day 2 Charges | (831,458) | \$ (37,939,377.36 | 410,685 | \$ 30,668,766.79 | (1,242,143) | \$ (68,608,144.15) | 16,800 | \$ 735,767.8 |
| | Net Loss Amount | | \$ 14,805,653.34 \$ 9,177,014.12 | - | \$ 14,805,653.34 \$ 9,177,014.12 | - | \$ - \$ - | - | \$ - |
| | Net Loss Amount | - 1 | \$ 9,177,014.12 \$ (23,982,667.46 | - | \$ 9,177,014.12 \$ (23,982,667.46) | - | ə - | 1 - | S - |
| , | Net Congestion and Loss Energy Offset | 1 | | | | | | | |
| ě | Net Congestion and Loss Energy Offset SUBTOTAL | | | - | \$ (23,982,007.40) \$ - | | \$ - \$ - | - | S - |

- No longer reported in 1b, 5b, 13b, 22b No longer reported in 1c, 5c, 13c, 22c No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | January - December 2022 | MWh Net Cost MWh Revenue | | ΓAIL | INTERSYST | EM - ASSET BASED | RSYSTEM - | NON- | ASSET F | | | |
|----------|--|----------------------------|--------|-----------------------------------|--------------------------|------------------|------------------------------------|--------------|----------------------------|-----|---------|--------------------|
| | Posting Account Description | MWh | | Net Cost | MWh | | Revenue | MWh | Revenue | MWh | Re | evenue |
| | Day Ahead & Real Time Energy | | | | | | | | | | | |
| | Day Ahead Asset Energy Day Ahead Non Asset Energy | (9,917,857) (2,669,070) | S | 50,600,589.37 (132,768,247.77) | 2,405,164 (2,669,070) | S S | 555,401,095.91 (132,768,247.77) | (12,323,020) | \$ (504,800,506.54) | - | \$ 26 | - 44,206.89 |
| | Real Time Asset Energy | | S | (3,053,346.01) | 1,248,656 | S | 48,556,950.03 | (1,387,803) | \$ (51,610,296.04) | | \$ 2,04 | 14,200.89 |
| | Real Time Non Asset Energy | (171) | S | (87,488.40) | (171) | ş | (87,488.40) | - | S - | - | s | - |
| | SUBTOTAL | (12,726,244) | \$ | (85,308,492.81) | 984,579 | \$ | 471,102,309.77 | (13,710,823) | \$ (556,410,802.58) | - | \$ 2,64 | 44,206.89 |
| 1 | Day Ahead & Real Time Energy Loss Day Ahead Loss | | | | | | | | | | | |
| | Day Ahead Non Asset Loss | | | | | | | | | | | |
| 3 | Day Ahead Financial Bilateral Transaction Loss | - | s | (172,225.98) | - | ş | (172,225.98) | - | \$ - | - | s | - |
| | Real Time Loss | | | | | | | | | | | |
| | Real Time Non Asset Loss | | S | (27,829,110.60) | | S | (27,829,110.60) | | e | | 6 | |
| | Real Time Distribution Losses Real Time Financial Bilateral Loss | - | S | (27,829,110.00) | - | S | (27,829,110.00) | - | s - | | S | - |
| | SUBTOTAL | - | S | (28,001,336.58) | - | \$ | (28,001,336.58) | - | \$ - | - | S | - |
| | Virtual Energy | | | | | | | | | | | |
| | Day Ahead Virtual Energy | - | S | - | = | \$ | - | - | \$ - | - | S | - |
| 27 | Real Time Virtual Energy SUBTOTAL | - | S S | - | - | \$ | - | - | \$ - \$ - | - | 8 | |
| | Schedules 16, 17 & 24 | - | ş | - | - | ş | - | - | , - | | ş | _ |
| 4 | Day Ahead Market Administration (Schedule 17) | - | S | 7,559,742.65 | - | \$ | 6,580,196.42 | - | \$ 979,546.23 | - | S | 3,156.59 |
| | Real Time Market Administration (Schedule 17) | - | S | 787,523.97 | - | \$ | 678,571.24 | - | \$ 108,952.73 | - | S | - |
| 29 33 | Financial Transmission Rights Administration (Schedule 16) Day-Ahead Schedule 24 Allocation Amount | - | S S | 331,553.99 1,200,279.46 | - | \$ \$ | 331,553.99 1,044,170.53 | - | \$ - \$ 156,108.93 | - | S S | 520.80 |
| | Real -Time Schedule 24 Allocation Amount | | S | (1,106,495.99) | - | S | 90,526.25 | - | \$ (1,197,022.24) | - | S | 520.80 |
| | Schedule 24 Admin Allocation | _ | s | (1,100,193.99) | _ | S | - | _ | \$ - | _ | s | - |
| | SUBTOTAL | - | S | 8,772,604.08 | - | \$ | 8,725,018.43 | - | \$ 47,585.65 | - | S | 3,677.39 |
| | Congestion & FTRs | | | | | | | | | | | |
| 1b 5b | Day Ahead Congestion Day Ahead Non Asset Congestion | | | | | | | | | | | |
| | Real Time Congestion | | | | | | | | | | | |
| | Real Time Non Asset Congestion | | | | | | | | | | | |
| 2 | Day Ahead Financial Bilateral Transaction Congestion | - | S | (273,709.89) | - | \$ | (273,709.89) | - | \$ - | - | S | - |
| | Real Time Financial Bilateral Congestion | = | S S | (122,900,725.98) | = | \$ \$ | (122,900,725.98) | - | \$ - | - | S | - |
| 28 30 | Financial Transmission Rights Hourly Allocation Financial Transmission Rights Monthly Allocation | - | S | (122,900,725.98) (2,899,316.04) | - | S | (2,899,316.04) | - | \$ - | - | 2 | - |
| | Financial Transmission Rights Yearly Allocation | _ | s | (1,632,060.78) | _ | S | (1,632,060.78) | _ | s - | _ | s | - |
| 31 | Financial Transmission Rights Transaction | - | S | | - | \$ | - 1 | - | \$ - | - | S | - |
| 36 | Financial Transmission Rights Full Funding Guarantee Amount | - | S | 1,671,660.61 | - | \$ | 1,671,660.61 | - | \$ - | - | S | - |
| 37 38 | Financial Transmission Guarantee Uplift Amount Financial Transmission Rights Monthly Transaction Amount | - | S S | (1,538,776.09) | - | \$ | (1,538,776.09) | - | S - | - | S | - |
| | SUBTOTAL | | S | (127,572,928.17) | - | S | (127,572,928.17) | - | s - | - | S | |
| | RSG & Make Whole Payments | | | (12.1,0.12,0.001) | | , | (,,) | | • | | - | |
| | Day Ahead Revenue Sufficiency Guarantee Distribution | - | S | 1,842,815.41 | - | \$ | 1,842,815.41 | 1 | S - | - | S | - |
| | Day Ahead Revenue Sufficiency Make Whole Payment Real Time Revenue Sufficiency Guarantee First Pass Distribution | - | S | (3,903,557.76) 7,214,645.51 | - | \$ \$ | (1,981,096.91) 7,214,645.51 | - | \$ (1,922,460.85) \$ | - | S S | - |
| 24 25 | Real Time Revenue Sufficiency Guarantee First Pass Distribution Real Time Revenue Sufficiency Guarantee Make Whole Payment | | S S | (8,907,512.93) | | S | (4,983,443.66) | - | \$ (3,924,069.27) | - | S | - |
| | Real Time Price Volatility Make Whole Payment | _ | s | (2,769,032.96) | _ | S | (2,023,056.28) | _ | \$ (745,976.68) | _ | s | - |
| | SUBTOTAL | - | Ş | (6,522,642.73) | - | \$ | 69,864.07 | - | \$ (6,592,506.80) | - | S | |
| 20 | Other Charges | | e | (0/ 7/2 020 5 | | e | 2 (42 200 :- | | e (nc.225.126.5.) | | e | 1 |
| | Real Time Miscellaneous Real Time Net Inadvertent Distribution | - | S S | (86,712,830.89) 986,813.84 | = | S | 3,612,289.42 986,813.84 | - | \$ (90,325,120.31) \$ - | - | S S | 144.38 1,538.12 |
| | Real Time Revenue Neutrality Uplift Amount | | S | 8,180,334.02 | - | S | 8,180,334.02 | - | \$ - \$ - | | S | -,550.12 |
| | Real Time Uninstructed Deviation Amount | - | S | - | - | \$ | - | - | \$ - | - | S | - |
| | SUBTOTAL | - | Ş | (77,545,683.03) | - | \$ | 12,779,437.28 | - | \$ (90,325,120.31) | - | \$ | 1,682.50 |
| 30 | Auction Revenue Rights (ARR) Auction Revenue Rights - FTR Auction Transactions | | S | 115,296,100.59 | | 9 | 115,296,100.59 | | 9 | | S | |
| 59 40 | Auction Revenue Rights - FTR Auction Transactions Auction Revenue Rights - Monthly ARR Revenue | | s | (115,528,039.82) | - | S | (114,982,587.92) | - | \$ (545,451.90) | _ | S | - |
| | Auction Revenue Rights - ARR Stage 2 Distribution | - | s | (4,991,372.80) | = | ş | (4,991,372.80) | - | \$ (545,451.50) | - | s | - |
| | Auction Revenue Rights - Monthly Infeasible ARR Revenue | - | s | 1,764,231.80 | - | \$ | 1,764,231.80 | - | \$ - | - | S | - |
| | SUBTOTAL | - | S | (3,459,080.23) | - | \$ | (2,913,628.33) | - | \$ (545,451.90) | - | S | _ |
| 6 | Grandfathered Charge Types Day Ahead Congestion Rebate on Carve Out-Grandfathered | | 9 | 93,345,66 | | 9 | 93,345.66 | | \$ | | S | |
| 7 | Day Ahead Loss Rebate on Carve Out-Grandfathered | | S | 22,925.83 | - | S | 22,925.83 | - | \$ - | | S | |
| 8 | Day Ahead Congestion Rebate on Option B-Grandfathered | - | s | , | - | s | , | - | \$ - | - | s | - |
| 9 | Day Ahead Loss Rebate on Option B-Grandfathered | - | S | - | - | S | - | - | \$ - | - | S | - |
| | Real Time Loss Rebate on Carve Out Grandfathered | - | S | - | - | \$ | - | - | \$ - | - | S | - |
| 18 | Real Time Congestion Rebate on Carve Out Grandfathered SUBTOTAL | - | S S | 116,271.49 | = | \$ | 116,271.49 | - | ş - | - | S | |
| | MISO Day 2 Charges | (12,726,244) | S | (319,521,287.98) | 984,579 | Ş | 334,305,007.96 | (13,710,823) | \$ (653,826,295.94) | | \$ 2,64 | 49,566.78 |
| x | Net Congestion Amount | - | S | (8,909,536.88) | - | \$ | (8,909,536.88) | - | \$ - | - | S | - |
| y | Net Loss Amount | - | S | (849,797.78) | - | \$ | (849,797.78) | - | S - | - | S | - |
| z | Net Congestion and Loss Energy Offset SURTOTAL | - | \$ | 9,759,334.66 | - | \$ | 9,759,334.66 | - | \$ - | - | S | |
| | | - | 3 | - | - | 1.9 | - | - | <i>a</i> - | | 1.9 | - |

- No longer reported in 1b, 5b, 13b, 22b
 No longer reported in 1c, 5c, 13c, 22c
 No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| | | | System | Intersystem | Retail | Mi | nnesota Retail |
|------------|---|---------|----------------|-------------------|----------------------|----|----------------|
| | January 20 |)22 Act | ual | | | | |
| Procu | rement Charges | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (164,671.79) | | \$ (164,671.79) | \$ | (115,235.71) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (164,772.45) | | \$ (164,772.45) | \$ | (115,306.15) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (54,159.30) | | \$ (54,159.30) | \$ | (37,900.15) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (52,009.98) | \$ 166,406.21 | \$ 114,396.23 | \$ | 80,053.36 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (59,636.76) | \$ 132,154.60 | \$ 72,517.84 | \$ | 50,747.27 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (23,918.76) | \$ 3,271.65 | \$ (20,647.11) | \$ | (14,448.65) |
| Reso | urce Energy Charges | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 51,469.61 | | \$ 51,469.61 | \$ | 36,017.93 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ = | \$ | - |
| 7 c | Real Time Excessive Energy Loss | | | | \$ - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 6,221,466.08 | | \$ 6,221,466.08 | \$ | 4,353,721.05 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | 788,846.39 | \$ - | \$ 788,846.39 | \$ | 552,026.98 |
| 8c | Real Time Non Excessive Energy Loss | \$ | 130,433.58 | \$ = | \$ 130,433.58 | \$ | 91,276.14 |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | (1,922,661.82) | \$ (4,473.99) | \$ (1,927,135.81) | \$ | (1,348,590.77) |
| Cost | Distribution Charges | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 145,077.50 | | \$ 145,077.50 | \$ | 101,523.81 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 102,882.19 | | \$ 102,882.19 | \$ | 71,995.95 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 36,611.14 | | \$ 36,611.14 | \$ | 25,620.12 |
| Pena | lty Charges | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 46,932.35 | \$ (21,318.10) | \$ 25,614.25 | \$ | 17,924.60 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 212.24 | \$ - | \$ 212.24 | \$ | 148.52 |
| | TOTAL MISO ASM CHARGES | \$ | 5,082,100.22 | \$ 276,040.37 | \$ 5,358,140.59 | \$ | 3,749,574.33 |

Note 1:

| 4 Real Time-Ramp Capability Amount Included in RT Regulation Amount \$ 457.66 \$ 457.66 \$ | Ramp C | apability Amounts (Included in Regulation Amounts) | | | |
|--|--------|---|-------------------|-------------------|------------------|
| | 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (13,389.83) | \$ (13,389.83) | \$ (9,756.23) |
| Total \$ (12,022,17) \$ (12,022,17) \$ | 4 | Real Time-Ramp Capability Amount Included in RT Regulation Amount | \$ 457.66 | \$ 457.66 | \$ 333.46 |
| 10tal \$ (12,932.17) \$ (12,932.17) \$ | | Total | \$ (12,932.17) | \$ (12,932.17) | \$ (9,422.77) |

Day-Ahead Ramp Capability Amount Included in DA Regulation Amount \$

Real Time-Ramp Capability Amount Included in RT Regulation Amount

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(11,291.70)

(12,066.78)

(775.08)

(15,451.47) \$

(16,512.09) \$

(1,060.62) \$

\$

| | | | System | Intersystem | Retail | Mi | nnesota Retai |
|------------|---|-----------|--------------|----------------|--------------------|----|---------------|
| | February 2 | 2022 Actu | ıal | | | | |
| Procu | rement Charges | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (138,495.37) | | \$ (138,495.37) | \$ | (97,836.12 |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (192,760.35) | | \$ (192,760.35) | \$ | (136,170.07 |
| 3 | Day-Ahead Supplemental Reserve | \$ | (79,551.59) | | \$ (79,551.59) | \$ | (56,196.96 |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (16,135.59) | \$ 88,068.49 | \$ 71,932.90 | \$ | 50,814.9 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (52,661.24) | \$ 174,674.36 | \$ 122,013.12 | \$ | 86,192.7 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | 5,939.90 | \$ 6,412.99 | \$ 12,352.89 | \$ | 8,726.3 |
| Reso | urce Energy Charges | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 11,216.83 | | \$ 11,216.83 | \$ | 7,923.8 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ - | \$ | - |
| 7 c | Real Time Excessive Energy Loss | | | | \$ - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 801,965.84 | | \$ 801,965.84 | \$ | 566,525.9 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (119,931.61) | \$ - | \$ (119,931.61) | \$ | (84,722.2 |
| 8c | Real Time Non Excessive Energy Loss | \$ | 40,093.71 | \$ - | \$ 40,093.71 | \$ | 28,323.0 |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | 7,020.31 | \$ (7,766.78) | \$ (746.47) | \$ | (527.32 |
| Cost | Distribution Charges | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 145,134.02 | | \$ 145,134.02 | \$ | 102,525.8 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 104,423.49 | | \$ 104,423.49 | \$ | 73,767.0 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 91,758.52 | | \$ 91,758.52 | \$ | 64,820.20 |
| Pena | ty Charges | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 42,037.33 | \$ (22,669.53) | \$ 19,367.80 | \$ | 13,681.83 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 4,137.11 | \$ - | \$ 4,137.11 | \$ | 2,922.54 |
| | TOTAL MISO ASM CHARGES | \$ | 654,191.31 | \$ 238,719.53 | \$ 892,910.84 | \$ | 630,771.48 |

\$

(15,451.47)

(1,060.62)

(16,512.09)

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| | | | System | Intersystem | Retail | Mi | nnesota Retail |
|------------|---|----------|--------------|-------------------|--------------------|----|----------------|
| | March | 2022 Act | ual | | | | |
| Procu | rement Charges | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (148,111.43) | | \$ (148,111.43) | \$ | (104,401.56) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (208,493.43) | | \$ (208,493.43) | \$ | (146,963.94) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (106,263.39) | | \$ (106,263.39) | \$ | (74,903.49) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | 8,637.47 | \$ 54,408.12 | \$ 63,045.59 | \$ | 44,439.90 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (52,177.28) | \$ 119,474.57 | \$ 67,297.29 | \$ | 47,436.86 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (466.56) | \$ 17,275.91 | \$ 16,809.35 | \$ | 11,848.66 |
| Resor | urce Energy Charges | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 27,113.24 | | \$ 27,113.24 | \$ | 19,111.72 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ - | \$ | - |
| 7 c | Real Time Excessive Energy Loss | | | | \$ - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 3,304,280.84 | | \$ 3,304,280.84 | \$ | 2,329,138.72 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (244,425.15) | \$ - | \$ (244,425.15) | \$ | (172,291.68) |
| 8c | Real Time Non Excessive Energy Loss | \$ | (38,366.21) | \$ - | \$ (38,366.21) | \$ | (27,043.77) |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | 13,224.60 | \$ (8,433.39) | \$ 4,791.21 | \$ | 3,377.25 |
| Cost | Distribution Charges | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 156,330.53 | | \$ 156,330.53 | \$ | 110,195.08 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 154,236.36 | | \$ 154,236.36 | \$ | 108,718.93 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 57,644.60 | | \$ 57,644.60 | \$ | 40,632.83 |
| Penal | ty Charges | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 45,880.87 | \$ (11,043.60) | \$ 34,837.27 | \$ | 24,556.28 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | = | \$ 440.23 | \$ 440.23 | \$ | 310.31 |
| | TOTAL MISO ASM CHARGES | \$ | 2,969,045.06 | \$ 172,121.84 | \$ 3,141,166.90 | \$ | 2,214,162.12 |
| Note | 1: | | | | | | |

| Ramp Ca | apability Amounts (Included in Regulation Amounts) | | | |
|---------|---|-------------------|----------------------|-------------|
| 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (22,037.68) | \$ (22,037.68) \$ | (15,992.64) |
| 4 | Real Time-Ramp Capability Amount Included in RT Regulation Amount | \$ (6,588.56) | \$ (6,588.56) \$ | (4,781.29) |
| | Total | \$ (28,626.24) | \$ (28,626.24) \$ | (20,773.93) |
| | | | | |

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| | | | System |] | Intersystem | Retail | Mir | nnesota Retail |
|------------|---|--------------|--------------|----|-------------|--------------------|-----|----------------|
| | Ap | ril 2022 Act | ual | | | | | |
| Procu | rement Charges | | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (248,040.09) | | | \$ (248,040.09) | \$ | (175,940.52) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (369,817.64) | | | \$ (369,817.64) | \$ | (262,320.13) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (163,033.09) | | | \$ (163,033.09) | \$ | (115,643.11) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | 135,773.92 | \$ | 103,549.06 | \$ 239,322.98 | \$ | 169,757.28 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (230,742.82) | \$ | 436,357.69 | \$ 205,614.87 | \$ | 145,847.34 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (14,364.66) | \$ | 12,570.33 | \$ (1,794.33) | \$ | (1,272.76) |
| Reso | urce Energy Charges | | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 85,273.13 | | | \$ 85,273.13 | \$ | 60,486.19 |
| 7b | Real Time Excessive Energy Congestion | | | | | \$ = | \$ | - |
| 7 c | Real Time Excessive Energy Loss | | | | | \$ - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 713,453.45 | | | \$ 713,453.45 | \$ | 506,068.89 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | 562,216.26 | \$ | - | \$ 562,216.26 | \$ | 398,792.88 |
| 8c | Real Time Non Excessive Energy Loss | \$ | 214,348.89 | \$ | - | \$ 214,348.89 | \$ | 152,042.58 |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | (18,847.42) | \$ | 12,645.72 | \$ (6,201.70) | \$ | (4,399.01) |
| Cost | Distribution Charges | | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 224,754.00 | | | \$ 224,754.00 | \$ | 159,423.17 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 231,564.74 | | | \$ 231,564.74 | \$ | 164,254.18 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 167,602.74 | | | \$ 167,602.74 | \$ | 118,884.47 |
| Penal | ty Charges | | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 37,534.66 | \$ | (23,552.22) | \$ 13,982.44 | \$ | 9,918.07 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 984.90 | \$ | = | \$ 984.90 | \$ | 698.61 |
| | TOTAL MISO ASM CHARGES | \$ | 1,328,660.97 | \$ | 541,570.58 | \$ 1,870,231.55 | \$ | 1,326,598.12 |

Note 1:

| 4 Real Time-Ramp Capability Amount Included in RT Regulation Amount \$ (11,753.04) \$ (11,753.04) \$ (8,474. | Ramp Ca | apability Amounts (Included in Regulation Amounts) | | | |
|--|---------|---|-------------------|----------------------|-------------|
| | 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (31,024.97) | \$ (31,024.97) \$ | (22,369.82) |
| Total \$ (42,778.01) \$ (42,778.01) \$ (30,844. | 4 | Real Time-Ramp Capability Amount Included in RT Regulation Amount | \$ (11,753.04) | \$ (11,753.04) \$ | (8,474.25) |
| | | Total | \$ (42,778.01) | \$ (42,778.01) \$ | (30,844.07) |

True-Up Report
Part B, Attachment 4
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| | | | System | Intersystem | Retail | Mi | nnesota Retail |
|------------|---|-------------|----------------|----------------|----------------------|----|----------------|
| | Ma | ay 2022 Act | ual | | | | |
| Procu | urement Charges | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (270,816.39) | | \$ (270,816.39) | \$ | (193,968.23 |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (343,047.30) | | \$ (343,047.30) | \$ | (245,702.55 |
| 3 | Day-Ahead Supplemental Reserve | \$ | (110,745.72) | | \$ (110,745.72) | \$ | (79,319.9 |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (2,700.64) | \$ 188,988.85 | \$ 186,288.21 | \$ | 133,426.1 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (141,338.91) | \$ 360,033.38 | \$ 218,694.47 | \$ | 156,636.6 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (14,643.83) | \$ 40,577.83 | \$ 25,934.00 | \$ | 18,574.8 |
| Reso | urce Energy Charges | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 128,285.38 | | \$ 128,285.38 | \$ | 91,882.50 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ - | \$ | - |
| 7 c | Real Time Excessive Energy Loss | | | | \$ - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 4,687,117.33 | | \$ 4,687,117.33 | \$ | 3,357,078.4 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (3,770,861.91) | \$ - | \$ (3,770,861.91) | \$ | (2,700,824.0 |
| 8c | Real Time Non Excessive Energy Loss | \$ | (427,757.52) | \$ - | \$ (427,757.52) | \$ | (306,374.9 |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | (30,228.85) | \$ 22,247.79 | \$ (7,981.06) | \$ | (5,716.3 |
| Cost | Distribution Charges | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 241,752.01 | | \$ 241,752.01 | \$ | 173,151.3 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 232,232.45 | | \$ 232,232.45 | \$ | 166,333.0 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 71,168.60 | | \$ 71,168.60 | \$ | 50,973.40 |
| Pena | Ity Charges | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 35,864.85 | \$ (15,187.57) | \$ 20,677.28 | \$ | 14,809.80 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 23.12 | \$ - | \$ 23.12 | \$ | 16.50 |
| | TOTAL MISO ASM CHARGES | \$ | 284,302.67 | \$ 596,660.28 | \$ 880,962.95 | \$ | 630,976.68 |
| Note | 1: | | | | | | |

| Ramp Ca | apability Amounts (Included in Regulation Amounts) | | | |
|---------|---|-------------------|----------------------|-------------|
| 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (28,880.54) | \$ (28,880.54) \$ | (20,605.02) |
| 4 | Real Time-Ramp Capability Amount Included in RT Regulation Amount | \$ (14,984.50) | \$ (14,984.50) \$ | (10,690.79) |
| | Total | \$ (43,865.04) | \$ (43,865.04) \$ | (31,295.81) |
| | | | | |

Total

MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES

Real Time-Ramp Capability Amount Included in RT Regulation Amount

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(9,045.65) \$

(31,835.36) \$

(6,370.98)

(22,422.09)

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| | | | System |] | Intersystem | Retail | Mi | nnesota Retail |
|------------|---|-----|----------------|----|-------------|----------------------|----|----------------|
| | June 2022 | Act | tual | | | | | |
| Procu | rement Charges | | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (387,629.86) | | | \$ (387,629.86) | \$ | (279,987.90) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (363,273.44) | | | \$ (363,273.44) | \$ | (262,395.07) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (134,198.92) | | | \$ (134,198.92) | \$ | (96,932.87) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (52,423.28) | \$ | 316,069.12 | \$ 263,645.84 | \$ | 190,433.33 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (92,491.91) | \$ | 301,519.06 | \$ 209,027.15 | \$ | 150,981.85 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (6,884.58) | \$ | 45,262.81 | \$ 38,378.23 | \$ | 27,720.88 |
| Reso | urce Energy Charges | | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | (16,543.91) | | | \$ (16,543.91) | \$ | (11,949.79) |
| 7b | Real Time Excessive Energy Congestion | | | | | \$ - | \$ | = |
| 7 c | Real Time Excessive Energy Loss | | | | | \$ - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 7,740,592.91 | | | \$ 7,740,592.91 | \$ | 5,591,087.11 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (1,317,934.47) | \$ | - | \$ (1,317,934.47) | \$ | (951,953.75) |
| 8c | Real Time Non Excessive Energy Loss | \$ | 26,644.58 | \$ | - | \$ 26,644.58 | \$ | 19,245.58 |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | (14,138.33) | \$ | 26,806.32 | \$ 12,667.99 | \$ | 9,150.18 |
| Cost | Distribution Charges | | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 173,210.40 | | | \$ 173,210.40 | \$ | 125,111.14 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 179,382.02 | | | \$ 179,382.02 | \$ | 129,568.95 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 130,177.82 | | | \$ 130,177.82 | \$ | 94,028.40 |
| Penal | ty Charges | | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 90,976.31 | \$ | (35,196.70) | \$ 55,779.61 | \$ | 40,290.02 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | - | \$ | - | \$ - | \$ | - |
| | TOTAL MISO ASM CHARGES | \$ | 5,955,465.34 | \$ | 654,460.61 | \$ 6,609,925.95 | \$ | 4,774,398.06 |
| Note | 1: | | | | | | | |
| Dame | Capability Amounts (Included in Regulation Amounts) | | | | | | | |
| Kamp 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ | (22,789.71) | | | \$ (22,789.71) | \$ | (16,051.11 |
| | , 1 1 , | | () / | | | ` ' ' ' / | | \ , , , |

\$

(9,045.65)

(31,835.36)

Total

MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES

Real Time-Ramp Capability Amount Included in RT Regulation Amount

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 4

(17,223.21) \$

(27,965.97) \$

(12,052.63)

(19,570.31)

Page 7 of 13

| | | | System | Intersystem | Retail | Mi | innesota Retail |
|------------|---|----|----------------|-------------------|----------------------|----|-----------------|
| | July 2022 | Ac | tual | | | | |
| Procu | rement Charges | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (385,722.15) | | \$ (385,722.15) | \$ | (282,470.18) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (125,315.68) | | \$ (125,315.68) | \$ | (91,770.57) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (130,607.05) | | \$ (130,607.05) | \$ | (95,645.52) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (97,816.95) | \$ 292,890.88 | \$ 195,073.93 | \$ | 142,855.60 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (74,668.16) | \$ 133,056.42 | \$ 58,388.26 | \$ | 42,758.61 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | 106,986.73 | \$ 25,264.45 | \$ 132,251.18 | \$ | 96,849.54 |
| Reso | irce Energy Charges | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 15,118.64 | | \$ 15,118.64 | \$ | 11,071.61 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ - | \$ | - |
| 7 c | Real Time Excessive Energy Loss | | | | \$ = | \$ | = |
| 8a | Real Time Non Excessive Energy Amount | \$ | 11,646,611.06 | | \$ 11,646,611.06 | \$ | 8,528,989.91 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (1,049,875.29) | \$ - | \$ (1,049,875.29) | \$ | (768,839.60 |
| 8c | Real Time Non Excessive Energy Loss | \$ | (475,919.80) | \$ - | \$ (475,919.80) | \$ | (348,523.29) |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | 123,182.49 | \$ (83,099.78) | \$ 40,082.71 | \$ | 29,353.18 |
| Cost | Distribution Charges | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 179,333.48 | | \$ 179,333.48 | \$ | 131,328.63 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 61,170.38 | | \$ 61,170.38 | \$ | 44,796.00 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 217,118.63 | | \$ 217,118.63 | \$ | 158,999.27 |
| Penal | ty Charges | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 83,037.63 | \$ (58,684.36) | \$ 24,353.27 | \$ | 17,834.27 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 3,929.16 | \$ - | \$ 3,929.16 | \$ | 2,877.38 |
| | TOTAL MISO ASM CHARGES | \$ | 10,096,563.12 | \$ 309,427.61 | \$ 10,405,990.73 | \$ | 7,620,464.83 |
| Note | 1. | | | | | | |
| Note | 1. | | | | | | |
| Ramı | Capability Amounts (Included in Regulation Amounts) | | | | | | |
| 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ | (10,742.76) | | \$ (10,742.76) | \$ | (7,517.68 |

\$

(17,223.21)

(27,965.97)

Docket No. E002/AA-21-295

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| August 202 | | | | | | | | nnesota Retail |
|---|---|---|--|--|--|---|--|---|
| Rugust 202 | 2 Act | ual | | | | | | |
| rement Charges | | | | | | | | |
| Day-Ahead Regulation Amount | \$ | (253,746.35) | | | \$ | (253,746.35) | \$ | (183,093.13) |
| Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (155,482.31) | | | \$ | (155,482.31) | \$ | (112,189.76) |
| Day-Ahead Supplemental Reserve | \$ | (64,151.97) | | | \$ | (64,151.97) | \$ | (46,289.47) |
| Real-Time Regulation Amount (See Note 1) | \$ | (225,143.66) | \$ | 259,142.57 | \$ | 33,998.91 | \$ | 24,532.24 |
| Real-Time Spinning Reserve Amount | \$ | (102,140.69) | \$ | 249,599.56 | \$ | 147,458.87 | \$ | 106,400.37 |
| Real-Time Supplemental Reserve Amount. | \$ | 75,892.83 | \$ | (18,350.33) | \$ | 57,542.50 | \$ | 41,520.35 |
| rce Energy Charges | | | | | | | | |
| Real Time Excessive Energy Amount | \$ | (42,689.47) | | | \$ | (42,689.47) | \$ | (30,803.00) |
| Real Time Excessive Energy Congestion | | | | | \$ | = | \$ | = |
| Real Time Excessive Energy Loss | | | | | \$ | = | \$ | = |
| Real Time Non Excessive Energy Amount | \$ | 8,940,025.35 | | | \$ | 8,940,025.35 | \$ | 6,450,761.51 |
| Real Time Non Excessive Energy Congestion | \$ | (1,218,423.75) | \$ | - | \$ | (1,218,423.75) | \$ | (879,165.41) |
| Real Time Non Excessive Energy Loss | \$ | (313,577.95) | \$ | - | \$ | (313,577.95) | \$ | (226,265.19) |
| Real Time Net Regulation Adjustment Amount | \$ | (13,172.62) | \$ | (7,243.19) | \$ | (20,415.81) | \$ | (14,731.22) |
| Distribution Charges | | | | | | | | |
| Real Time Regulation Reserve Cost Distribution Amount | \$ | 162,246.14 | | | \$ | 162,246.14 | \$ | 117,070.27 |
| Real Time Spinning Reserve Cost Distribution | \$ | 151,469.96 | | | \$ | 151,469.96 | \$ | 109,294.61 |
| Real Time Supplemental Reserve Cost Distribution | \$ | 22,395.93 | | | \$ | 22,395.93 | \$ | 16,160.00 |
| y Charges | | | | | | | | |
| Real Time Excessive/Deficient Energy Deployment | \$ | 99,463.36 | \$ | (61,628.62) | \$ | 37,834.74 | \$ | 27,300.02 |
| Real Time Contingency Reserve Deployment Failure | \$ | 211,246.65 | \$ | (51,511.01) | \$ | 159,735.64 | \$ | 115,258.79 |
| TOTAL MISO ASM CHARGES | \$ | 7,274,211.45 | \$ | 370,008.98 | \$ | 7,644,220.43 | \$ | 5,515,760.97 |
| | Day-Ahead Spinning Reserve Amount (See Note 1) Day-Ahead Supplemental Reserve Real-Time Regulation Amount (See Note 1) Real-Time Spinning Reserve Amount Real-Time Supplemental Reserve Amount. Ince Energy Charges Real Time Excessive Energy Amount Real Time Excessive Energy Congestion Real Time Excessive Energy Loss Real Time Non Excessive Energy Amount Real Time Non Excessive Energy Congestion Real Time Non Excessive Energy Loss Real Time Non Excessive Energy Loss Real Time Non Excessive Energy Loss Real Time Net Regulation Adjustment Amount Distribution Charges Real Time Regulation Reserve Cost Distribution Real Time Spinning Reserve Cost Distribution Real Time Supplemental Reserve Cost Distribution ty Charges Real Time Excessive/Deficient Energy Deployment Real Time Contingency Reserve Deployment Failure | Day-Ahead Spinning Reserve Amount (See Note 1) Day-Ahead Supplemental Reserve Real-Time Regulation Amount (See Note 1) Real-Time Spinning Reserve Amount Real-Time Supplemental Reserve Amount. Real-Time Supplemental Reserve Amount. Real-Time Excessive Energy Amount Real Time Excessive Energy Congestion Real Time Excessive Energy Congestion Real Time Non Excessive Energy Amount \$ Real Time Non Excessive Energy Congestion Real Time Non Excessive Energy Congestion \$ Real Time Non Excessive Energy Loss Real Time Net Regulation Adjustment Amount \$ Distribution Charges Real Time Regulation Reserve Cost Distribution Amount \$ Real Time Spinning Reserve Cost Distribution \$ Real Time Supplemental Reserve Cost Distribution \$ Real Time Supplemental Reserve Cost Distribution \$ Real Time Supplemental Reserve Cost Distribution \$ Real Time Excessive/Deficient Energy Deployment \$ Real Time Contingency Reserve Deployment Failure | Day-Ahead Spinning Reserve Amount (See Note 1) Day-Ahead Supplemental Reserve \$ (64,151.97) Real-Time Regulation Amount (See Note 1) Real-Time Regulation Amount (See Note 1) Real-Time Spinning Reserve Amount \$ (102,140.69) Real-Time Supplemental Reserve Amount. \$ 75,892.83 **Rece Energy Charges Real Time Excessive Energy Amount Real Time Excessive Energy Congestion Real Time Excessive Energy Loss Real Time Non Excessive Energy Amount \$ 8,940,025.35 Real Time Non Excessive Energy Congestion \$ (1,218,423.75) Real Time Non Excessive Energy Loss \$ (313,577.95) Real Time Net Regulation Adjustment Amount \$ (13,172.62) **Distribution Charges** Real Time Regulation Reserve Cost Distribution Amount \$ 162,246.14 Real Time Spinning Reserve Cost Distribution \$ 22,395.93 **ty Charges** Real Time Excessive/Deficient Energy Deployment \$ 99,463.36 Real Time Contingency Reserve Deployment Failure \$ 211,246.65 | Day-Ahead Spinning Reserve Amount (See Note 1) Day-Ahead Supplemental Reserve Real-Time Regulation Amount (See Note 1) Real-Time Regulation Amount (See Note 1) Real-Time Spinning Reserve Amount Real-Time Spinning Reserve Amount Real-Time Supplemental Reserve Amount Real-Time Supplemental Reserve Amount Real-Time Excessive Energy Amount Real Time Excessive Energy Congestion Real Time Excessive Energy Congestion Real Time Non Excessive Energy Amount Real Time Non Excessive Energy Congestion Real Time Non Excessive Energy Loss Real Time Non Excessive Energy Loss Real Time Non Excessive Energy Loss Real Time Non Excessive Energy Loss Real Time Non Excessive Energy Loss Real Time Non Excessive Energy Loss Real Time Net Regulation Adjustment Amount \$ (13,172.62) \$ Distribution Charges Real Time Regulation Reserve Cost Distribution Amount \$ 162,246.14 Real Time Spinning Reserve Cost Distribution \$ 22,395.93 Ty Charges Real Time Excessive/Deficient Energy Deployment \$ 99,463.36 \$ Real Time Contingency Reserve Deployment Failure | Day-Ahead Spinning Reserve Amount (See Note 1) \$ (155,482.31) Day-Ahead Supplemental Reserve \$ (64,151.97) Real-Time Regulation Amount (See Note 1) \$ (225,143.66) \$ 259,142.57 Real-Time Spinning Reserve Amount \$ (102,140.69) \$ 249,599.56 Real-Time Supplemental Reserve Amount. \$ 75,892.83 \$ (18,350.33) Real-Time Supplemental Reserve Amount. \$ (42,689.47) Real-Time Excessive Energy Amount \$ (42,689.47) Real-Time Excessive Energy Congestion Real-Time Excessive Energy Loss \$ (42,128,423.75) \$ - (42,689.47) Real-Time Non Excessive Energy Congestion \$ (1,218,423.75) \$ - (42,689.47) Real-Time Non Excessive Energy Congestion \$ (1,218,423.75) \$ - (4,269.47) Real-Time Non Excessive Energy Loss \$ (313,577.95) \$ - (4,269.47) Real-Time Non Excessive Energy Loss \$ (313,577.95) \$ - (4,269.47) Real-Time Non Excessive Energy Loss \$ (313,577.95) \$ - (4,269.47) Real-Time Non Excessive Energy Loss \$ (313,577.95) \$ - (4,269.47) Real-Time Non Excessive Energy Loss \$ (313,577.95) \$ - (4,269.47) Real-Time Regulation Adjustment Amount \$ (13,172.62) \$ (7,243.19) Distribution Charges \$ (12,246.14) Real-Time Regulation Reserve Cost Distribution Amount \$ (13,172.62) \$ (7,243.19) Distribution Charges \$ (22,395.93) Real-Time Supplemental Reserve Cost Distribution \$ (22,395.93) Real-Time Supplemental Reserve Cost Distribution \$ (23,395.93) Real-Time Excessive/Deficient Energy Deployment \$ (211,246.65) \$ (51,511.01) Real-Time Contingency Reserve Deployment Failure \$ (211,246.65) \$ (51,511.01) | Day-Ahead Spinning Reserve Amount (See Note 1) \$ (155,482.31) \$ | Day-Ahead Spinning Reserve Amount (See Note 1) \$ (155,482.31) \$ (155,482.31) Day-Ahead Supplemental Reserve \$ (64,151.97) \$ (64,151.97) Real-Time Regulation Amount (See Note 1) \$ (225,143.66) \$ 259,142.57 \$ 33,998.91 Real-Time Spinning Reserve Amount \$ (102,140.69) \$ 249,599.56 \$ 147,458.87 Real-Time Supplemental Reserve Amount. \$ 75,892.83 \$ (18,350.33) \$ 57,542.50 Real-Time Supplemental Reserve Amount. \$ (42,689.47) | Day-Ahead Spinning Reserve Amount (See Note 1) \$ (155,482.31) \$ (155,48.21) \$ (155,48 |

Note 1:

| Ramp C | apability Amounts (Included in Regulation Amounts) | | | |
|--------|---|-------------------|----------------------|-------------|
| 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (6,157.02) | \$ (6,157.02) \$ | (4,349.45) |
| 4 | Real Time-Ramp Capability Amount Included in RT Regulation Amount | \$ (22,439.06) | \$ (22,439.06) \$ | (15,851.44) |
| | Total | \$ (28,596.08) | \$ (28,596.08) \$ | (20,200.89) |

Real Time-Ramp Capability Amount Included in RT Regulation Amount

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Retail

Intersystem

System

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(6,139.78)

(7,355.22)

(8,710.33) \$

(10,434.64) \$

Minnesota Retail

| | September 2022 | Act | ual | | | |
|------------|---|-----|--------------|-------------------|--------------------|--------------------|
| Procu | rement Charges | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (165,160.75) | | \$ (165,160.75) | \$ (119,195.88) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (141,448.31) | | \$ (141,448.31) | \$ (102,082.71) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (43,561.26) | | \$ (43,561.26) | \$ (31,437.99) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (167,325.65) | \$ 177,294.66 | \$ 9,969.01 | \$ 7,194.60 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (10,003.08) | \$ 56,678.70 | \$ 46,675.62 | \$ 33,685.62 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | 7,602.85 | \$ 5,751.09 | \$ 13,353.94 | \$ 9,637.49 |
| Reso | urce Energy Charges | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | (58,986.13) | | \$ (58,986.13) | \$ (42,570.06) |
| 7b | Real Time Excessive Energy Congestion | | | | \$ = | \$ = |
| 7 c | Real Time Excessive Energy Loss | | | | \$ = | \$ - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 9,762,426.82 | | \$ 9,762,426.82 | \$ 7,045,506.15 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (129,250.24) | \$ - | \$ (129,250.24) | \$ (93,279.40) |
| 8c | Real Time Non Excessive Energy Loss | \$ | (68,544.08) | \$ - | \$ (68,544.08) | \$ (49,468.00) |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | 16,716.55 | \$ (9,348.30) | \$ 7,368.25 | \$ 5,317.64 |
| Cost | Distribution Charges | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 167,417.21 | | \$ 167,417.21 | \$ 120,824.36 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 84,635.27 | | \$ 84,635.27 | \$ 61,080.95 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 82,884.96 | | \$ 82,884.96 | \$ 59,817.76 |
| Penal | ty Charges | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 73,971.85 | \$ (43,147.80) | \$ 30,824.05 | \$ 22,245.60 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 76.47 | \$ = | \$ 76.47 | \$ 55.19 |
| | TOTAL MISO ASM CHARGES | \$ | 9,411,452.48 | \$ 187,228.35 | \$ 9,598,680.83 | \$ 6,927,331.29 |
| Note | 1: | | | | | |
| Ramj | Capability Amounts (Included in Regulation Amounts) | | | | | |
| 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ | (1,724.31) | | \$ (1,724.31) | \$ (1,215.44) |
| | | | | | | |

\$

(8,710.33)

(10,434.64)

Total

MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES

Day-Ahead Ramp Capability Amount Included in DA Regulation Amount \$

Real Time-Ramp Capability Amount Included in RT Regulation Amount

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 4

Retail

(5,771.84) \$

(5,696.45) \$

(11,468.29) \$

\$ \$ (4,094.10)

(4,040.62)

(8,134.72)

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Minnesota Retail

| | | er zuzz Act | uai | | | |
|------------|---|-------------|--------------|----------------------|--------------|--------------------|
| Procu | rement Charges | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (169,858.02) | \$ | (169,858.02) | \$ (120,441.49 |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (155,734.38) | \$ | (155,734.38) | \$ (110,426.82 |
| 3 | Day-Ahead Supplemental Reserve | \$ | (37,684.30) | \$ | (37,684.30) | \$ (26,720.86 |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (40,046.19) | \$ 97,054.85 \$ | 57,008.66 | \$ 40,423.22 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (12,359.17) | \$ 104,903.65 \$ | 92,544.48 | \$ 65,620.66 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | 5,870.04 | \$ 9,000.59 \$ | 14,870.63 | \$ 10,544.34 |
| Reso | arce Energy Charges | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 119,747.19 | \$ | 119,747.19 | \$ 84,909.33 |
| 7b | Real Time Excessive Energy Congestion | | | \$ | - | \$ - |
| 7 c | Real Time Excessive Energy Loss | | | \$ | - | \$ - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 7,185,574.97 | \$ | 7,185,574.97 | \$ 5,095,086.77 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (337,782.81) | \$ - \$ | (337,782.81) | \$ (239,512.18 |
| 8c | Real Time Non Excessive Energy Loss | \$ | 53,067.95 | \$ - \$ | 53,067.95 | \$ 37,628.97 |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | 13,454.16 | \$ (7,474.38) \$ | 5,979.78 | \$ 4,240.09 |
| Cost | Distribution Charges | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 168,580.43 | \$ | 168,580.43 | \$ 119,535.59 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 178,758.16 | \$ | 178,758.16 | \$ 126,752.33 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 48,669.09 | \$ | 48,669.09 | \$ 34,509.87 |
| Penal | ty Charges | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 61,455.34 | \$ (23,136.17) \$ | 38,319.17 | \$ 27,171.03 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 4,189.63 | \$ - \$ | 4,189.63 | \$ 2,970.75 |
| | TOTAL MISO ASM CHARGES | \$ | 7,085,902.09 | \$ 180,348.54 \$ | 7,266,250.63 | \$ 5,152,291.59 |
| Note | 1. | | | | | |
| | | | | | | |
| Ramp | Capability Amounts (Included in Regulation Amounts) | | | | | |

\$

\$

(5,771.84)

(5,696.45)

(11,468.29)

System

Intersystem

Docket No. E002/AA-21-295 True-Up Report

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Part B, Attachment 4

| | | | System | Intersystem | | Retail | Mi | nnesota Retail |
|------------|---|-------------|--------------|----------------|------|--------------|----|----------------|
| | Novemb | er 2022 Act | ual | | | | | |
| Procu | urement Charges | | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (152,308.53) | | \$ | (152,308.53) | \$ | (107,866.87) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (290,932.16) | | \$ | (290,932.16) | \$ | (206,041.92) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (72,799.53) | | \$ | (72,799.53) | \$ | (51,557.57) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (71,418.55) | \$ 72,614.86 | \$ | 1,196.31 | \$ | 847.24 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (84,335.71) | \$ 242,036.15 | \$ | 157,700.44 | \$ | 111,685.49 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | 9,820.49 | \$ 5,420.08 | \$ | 15,240.57 | \$ | 10,793.57 |
| Reso | urce Energy Charges | | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 17,855.08 | | \$ | 17,855.08 | \$ | 12,645.20 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ | = | \$ | - |
| 7 c | Real Time Excessive Energy Loss | | | | \$ | - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 6,676,756.55 | | \$ | 6,676,756.55 | \$ | 4,728,565.45 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (939,845.33) | \$ - | \$ | (939,845.33) | \$ | (665,610.63) |
| 8c | Real Time Non Excessive Energy Loss | \$ | (92,186.09) | \$ - | \$ | (92,186.09) | \$ | (65,287.38) |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | (6,290.68) | \$ 2,621.79 | \$ | (3,668.89) | \$ | (2,598.36) |
| Cost | Distribution Charges | | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 158,879.29 | | \$ | 158,879.29 | \$ | 112,520.37 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 224,083.74 | | \$ | 224,083.74 | \$ | 158,699.01 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 87,559.31 | | \$ | 87,559.31 | \$ | 62,010.64 |
| Penal | lty Charges | | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 37,749.09 | \$ (13,349.74) |) \$ | 24,399.35 | \$ | 17,279.94 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 1,891.62 | \$ - | \$ | 1,891.62 | \$ | 1,339.67 |
| | TOTAL MISO ASM CHARGES | \$ | 5,504,478.59 | \$ 309,343.14 | \$ | 5,813,821.73 | \$ | 4,117,423.83 |

Note 1:

| Ramp C | apability Amounts (Included in Regulation Amounts) | | | |
|--------|---|-------------------|----------------------|-------------|
| 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (22,902.63) | \$ (22,902.63) \$ | (16,403.67) |
| 4 | Real Time-Ramp Capability Amount Included in RT Regulation Amount | \$ (8,970.92) | \$ (8,970.92) \$ | (6,425.29) |
| | Total | \$ (31,873.55) | \$ (31,873.55) \$ | (22,828.96) |

True-Up Report Part B, Attachment 4 Page 12 of 13

| n | | Retail | M | innesota Retail |
|-------|-------|----------------|-------------------------|----------------------------|
| | | | | |
| | | | | |
| | \$ | (249,550.24 |) \$ | (176,065.44) |
| | \$ | (257,324.17 |) \$ | (181,550.19) |
| | \$ | (372,288.87 |) \$ | (262,661.35) |
| 6.35 | 5 \$ | (39,906.49 |) \$ | (28,155.27) |
| 0.00 | \$ | (106,113.30 |) \$ | (74,866.23) |
| 7.50 | \$ | (396,967.48 |) \$ | (280,072.87) |
| | | | | |
| | \$ | (10,754.75 |) \$ | (7,587.81) |
| | \$ | - | \$ | - |
| | \$ | - | \$ | = |
| | \$ | (9,677,062.66 |) \$ | (6,827,467.95) |
| - | \$ | (1,132,268.97 |) \$ | (798,850.89) |
| - | \$ | 101,965.16 | \$ | 71,939.58 |
| 4.05) | 5) \$ | (10,942.90 |) \$ | (7,720.56) |
| | | | | |
| | \$ | 171,280.59 | \$ | 120,843.77 |
| | \$ | 183,323.99 | \$ | 129,340.76 |
| | \$ | 648,701.06 | \$ | 457,678.72 |
| | | | | |
| 9.28) | 8) \$ | 236,527.62 | \$ | 166,877.57 |
| 1.55) | 5) \$ | 59,086.06 | \$ | 41,687.05 |
| 3.97 | 7 \$ | (10,852,295.35 |) \$ | (7,656,631.08) |
| .8 | 8.97 | 18.97 | 8.97 \$ (10,852,295.35) | 8.97 \$ (10,852,295.35) \$ |

| 3 Day- | Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (19,379.48) | \$ (19,379.48) \$ | (13,997.94) |
|--------|---|-------------------|----------------------|-------------|
| 4 Real | Time-Ramp Capability Amount Included in RT Regulation Amount | \$ (12,227.41) | \$ (12,227.41) \$ | (8,831.95) |
| Tota | 1 | \$ (31,606.89) | \$ (31,606.89) \$ | (22,829.89) |

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| | | | System | Intersystem | Retail | M | innesota Retail |
|------------|---|-----|----------------|--------------------|----------------------|----|-----------------|
| | January - Dece | mbe | - | , | | | |
| Procu | rement Charges | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (2,734,110.97) | | \$ (2,734,110.97) | \$ | (1,950,973.16) |
| 2 | Day-Ahead Spinning Reserve Amount (See Note 1) | \$ | (2,768,401.62) | | \$ (2,768,401.62) | \$ | (1,975,441.86) |
| 3 | Day-Ahead Supplemental Reserve | \$ | (1,369,044.99) | | \$ (1,369,044.99) | \$ | (976,906.23) |
| 4 | Real-Time Regulation Amount (See Note 1) | \$ | (1,157,211.94) | \$ 2,353,184.02 | \$ 1,195,972.08 | \$ | 853,406.99 |
| 5 | Real-Time Spinning Reserve Amount | \$ | (2,291,669.03) | \$ 3,583,488.14 | \$ 1,291,819.11 | \$ | 921,800.34 |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (341,990.53) | \$ 249,314.90 | \$ (92,675.63) | \$ | (66,130.33) |
| Resor | rce Energy Charges | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 327,104.84 | | \$ 327,104.84 | \$ | 233,411.43 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ - | \$ | = |
| 7 c | Real Time Excessive Energy Loss | | | | \$ - | \$ | - |
| 8a | Real Time Non Excessive Energy Amount | \$ | 58,003,208.54 | | \$ 58,003,208.54 | \$ | 41,389,213.59 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | (8,909,536.88) | \$ = | \$ (8,909,536.88) | \$ | (6,357,557.35) |
| 8c | Real Time Non Excessive Energy Loss | \$ | (849,797.78) | \$ = | \$ (849,797.78) | \$ | (606,388.21) |
| 9 | Real Time Net Regulation Adjustment Amount | \$ | (1,791,750.46) | \$ (114,452.24) | \$ (1,906,202.70) | \$ | (1,360,204.59) |
| Cost | Distribution Charges | | | | | | |
| 10 | Real Time Regulation Reserve Cost Distribution Amount | \$ | 2,093,995.60 | | \$ 2,093,995.60 | \$ | 1,494,207.53 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 1,888,162.75 | | \$ 1,888,162.75 | \$ | 1,347,331.87 |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 1,662,292.40 | | \$ 1,662,292.40 | \$ | 1,186,158.09 |
| Penal | ty Charges | | | | | | |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 939,620.54 | \$ (377,103.69) | \$ 562,516.85 | \$ | 401,393.83 |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 309,888.51 | \$ (75,182.33) | \$ 234,706.18 | \$ | 167,478.74 |
| | TOTAL MISO ASM CHARGES | \$ | 43,010,758.98 | \$ 5,619,248.80 | \$ 48,630,007.78 | \$ | 34,700,800.69 |

Note 1:

| Ramp C | apability Amounts (Included in Regulation Amounts) | | | |
|--------|---|--------------------|-----------------------|--------------|
| 3 | Day-Ahead Ramp Capability Amount Included in DA Regulation Amount | \$ (200,252.24) | \$ (200,252.24) \$ | (146,647.75) |
| 4 | Real Time-Ramp Capability Amount Included in RT Regulation Amount | \$ (118,242.09) | \$ (118,242.09) \$ | (86,590.48) |
| | Total | \$ (318,494.33) | \$ (318,494.33) \$ | (233,238.23) |

SUMMARY OF MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES - SYSTEM

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 5 Page 1 of 1

| | | Ja | anuary 22 F | February 22 | March 22 | 1st Qt | April 22 | May 22 | June 22 | 2nd Qt | July 22 | August 22 | September 22 | 3rd Qt | October 22 | November 22 | December 22 | 4th Qt | YTD |
|-------|--|-------|------------------|-----------------|-----------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-----------------|-----------------|-----------------------|----------------|-------------------|
| | | | | | | | | | | | | | | | | | | | |
| Regul | ation | | | | | | | | | | | | | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (164,671.79) \$ | (138,495.37) \$ | (148,111.43) \$ | (451,278.59) \$ | (248,040.09) \$ | (270,816.39) \$ | (387,629.86) \$ | (906,486.34) \$ | (385,722.15) \$ | (253,746.35) \$ | (165,160.75) \$ | (804,629.25) \$ | (169,858.02) \$ | (152,308.53) \$ | (249,550.24) \$ | (571,716.79) | \$ (2,734,110.97) |
| 4 | Real-Time Regulation Amount | \$ | (52,009.98) \$ | (16,135.59) \$ | 8,637.47 | (59,508.10) \$ | 135,773.92 \$ | (2,700.64) \$ | (52,423.28) \$ | 80,650.00 \$ | (97,816.95) \$ | (225,143.66) \$ | (167,325.65) \$ | (490,286.26) \$ | (40,046.19) \$ | (71,418.55) \$ | (576,602.84) \$ | (688,067.58) | \$ (1,157,211.94) |
| 10 | Real Time Regulation Reserve Cost Distribution Amo | \$ | 145,077.50 \$ | 145,134.02 \$ | 156,330.53 | 446,542.05 \$ | 224,754.00 \$ | 241,752.01 \$ | 173,210.40 \$ | 639,716.41 \$ | 179,333.48 \$ | 162,246.14 \$ | 167,417.21 \$ | 508,996.83 \$ | 168,580.43 \$ | 158,879.29 | 171,280.59 \$ | 498,740.31 | \$ 2,093,995.60 |
| | SUBTOTAL | \$ | (71,604.27) \$ | (9,496.94) \$ | 16,856.57 | (64,244.64) \$ | 112,487.83 \$ | (31,765.02) \$ | (266,842.74) \$ | (186,119.93) \$ | (304,205.62) \$ | (316,643.87) \$ | (165,069.19) \$ | (785,918.68) \$ | (41,323.78) \$ | (64,847.79) \$ | (654,872.49) \$ | (761,044.06) | \$ (1,797,327.31) |
| Spinn | ng Reserve | | | | | | | | | | | | | | | | | | |
| 2 | Day-Ahead Spinning Reserve Amount | \$ | (164,772.45) \$ | (192,760.35) \$ | (208,493.43) \$ | (566,026.23) \$ | (369,817.64) \$ | (343,047.30) \$ | (363,273.44) \$ | (1,076,138.38) \$ | (125,315.68) \$ | (155,482.31) \$ | (141,448.31) \$ | (422,246.30) \$ | (155,734.38) \$ | (290,932.16) \$ | (257,324.17) \$ | (703,990.71) | \$ (2,768,401.62) |
| 5 | Real-Time Spinning Reserve Amount | \$ | (59,636.76) \$ | (52,661.24) \$ | (52,177.28) \$ | (164,475.28) \$ | (230,742.82) \$ | (141,338.91) \$ | (92,491.91) \$ | (464,573.64) \$ | (74,668.16) \$ | (102,140.69) \$ | (10,003.08) \$ | (186,811.93) \$ | (12,359.17) \$ | (84,335.71) \$ | \$ (1,379,113.30) \$ | (1,475,808.18) | \$ (2,291,669.03) |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 102,882.19 \$ | 104,423.49 \$ | 154,236.36 | 361,542.04 \$ | 231,564.74 \$ | 232,232.45 \$ | 179,382.02 \$ | 643,179.21 \$ | 61,170.38 \$ | 151,469.96 \$ | 84,635.27 \$ | 297,275.61 | 178,758.16 \$ | 224,083.74 | 183,323.99 \$ | 586,165.89 | \$ 1,888,162.75 |
| | SUBTOTAL | \$ | (121,527.02) \$ | (140,998.10) \$ | (106,434.35) \$ | (368,959.47) \$ | (368,995.72) \$ | (252,153.76) \$ | (276,383.33) \$ | (897,532.81) \$ | (138,813.46) \$ | (106,153.04) \$ | (66,816.12) \$ | (311,782.62) \$ | 10,664.61 \$ | (151,184.13) \$ | (1,453,113.48) \$ | (1,593,633.00) | \$ (3,171,907.90) |
| Suppl | emental Reserve | | | | | | | | | | | | | | | | | | |
| 3 | Day-Ahead Supplemental Reserve | \$ | (54,159.30) \$ | (79,551.59) \$ | (106,263.39) \$ | (239,974.28) \$ | (163,033.09) \$ | (110,745.72) \$ | (134,198.92) \$ | (407,977.73) \$ | (130,607.05) \$ | (64,151.97) \$ | (43,561.26) \$ | (238,320.28) \$ | (37,684.30) \$ | (72,799.53) \$ | (372,288.87) \$ | (482,772.70) | \$ (1,369,044.99) |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (23,918.76) \$ | 5,939.90 \$ | (466.56) \$ | (18,445.42) \$ | (14,364.66) \$ | (14,643.83) \$ | (6,884.58) \$ | (35,893.07) \$ | 106,986.73 \$ | 75,892.83 \$ | 7,602.85 \$ | 190,482.41 \$ | 5,870.04 \$ | 9,820.49 | (493,824.98) \$ | (478,134.45) | \$ (341,990.53) |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 36,611.14 \$ | 91,758.52 \$ | 57,644.60 | 186,014.26 \$ | 167,602.74 \$ | 71,168.60 \$ | 130,177.82 \$ | 368,949.16 \$ | 217,118.63 \$ | 22,395.93 \$ | 82,884.96 \$ | 322,399.52 \$ | 48,669.09 \$ | 87,559.31 | 648,701.06 \$ | 784,929.46 | \$ 1,662,292.40 |
| | SUBTOTAL | \$ | (41,466.92) \$ | 18,146.83 \$ | (49,085.35) \$ | (72,405.44) \$ | (9,795.01) \$ | (54,220.95) \$ | (10,905.68) \$ | (74,921.64) \$ | 193,498.31 \$ | 34,136.79 \$ | 46,926.55 \$ | 274,561.65 \$ | 16,854.83 \$ | 24,580.27 | (217,412.79) \$ | (175,977.69) | \$ (48,743.12) |
| Other | Charges | | | | | | | | | | | | | | | | | | |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 212.24 \$ | 4,137.11 \$ | - \$ | 4,349.35 \$ | 984.90 \$ | 23.12 \$ | - \$ | 1,008.02 \$ | 3,929.16 \$ | 211,246.65 \$ | 76.47 \$ | 215,252.28 \$ | 4,189.63 \$ | 1,891.62 | 83,197.61 \$ | 89,278.86 | \$ 309,888.51 |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 46,932.35 \$ | 42,037.33 \$ | 45,880.87 | 134,850.55 \$ | 37,534.66 \$ | 35,864.85 \$ | 90,976.31 \$ | 164,375.82 \$ | 83,037.63 \$ | 99,463.36 \$ | 73,971.85 \$ | 256,472.84 \$ | 61,455.34 \$ | 37,749.09 | 284,716.90 \$ | 383,921.33 | \$ 939,620.54 |
| 9 | Real Time Net Regulation Adjustment Amount | \$ (1 | 1,922,661.82) \$ | 7,020.31 \$ | 13,224.60 | (1,902,416.91) \$ | (18,847.42) \$ | (30,228.85) \$ | (14,138.33) \$ | (63,214.60) \$ | 123,182.49 \$ | (13,172.62) \$ | 16,716.55 \$ | 126,726.42 \$ | 13,454.16 \$ | (6,290.68) \$ | 39,991.15 \$ | 47,154.63 | \$ (1,791,750.46) |
| | SUBTOTAL | \$ (1 | 1,875,517.23) \$ | 53,194.75 \$ | 59,105.47 | (1,763,217.01) \$ | 19,672.14 \$ | 5,659.12 \$ | 76,837.98 \$ | 102,169.24 \$ | 210,149.28 \$ | 297,537.39 \$ | 90,764.87 \$ | 598,451.54 \$ | 79,099.13 \$ | 33,350.03 | 407,905.66 \$ | 520,354.82 | \$ (542,241.41) |
| | | | | | | | | | | | | | | | | | | | |
| | TOTAL MISO ASM CHARGES | \$ (2 | 2,110,115.44) \$ | (79,153.46) \$ | (79,557.66) \$ | (2,268,826.56) \$ | (246,630.76) \$ | (332,480.61) \$ | (477,293.77) \$ | (1,056,405.14) \$ | (39,371.49) \$ | (91,122.73) \$ | (94,193.89) \$ | (224,688.11) \$ | 65,294.79 | (158,101.62) \$ | (1,917,493.10) \$ | (2,010,299.93) | \$ (5,560,219.74) |
| | | | | | | | | | | | | | | | | | | | |
| Resou | rce Energy Charges NOT INCLUDED IN Minnesota | Powe | r FORMAT | | | | | | | | | | | | | | | | |
| 7a | Real Time Excessive Energy Amount | \$ | 51,469.61 \$ | 11,216.83 \$ | 27,113.24 | 89,799.68 \$ | 85,273.13 \$ | 128,285.38 \$ | (16,543.91) \$ | 197,014.60 \$ | 15,118.64 \$ | (42,689.47) \$ | (58,986.13) \$ | (86,556.96) \$ | 119,747.19 \$ | 17,855.08 | (10,754.75) \$ | 126,847.52 | \$ 327,104.84 |
| 7b | Real Time Excessive Energy Congestion | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| 7c | Real Time Excessive Energy Loss | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| 8a | Real Time Non Excessive Energy Amount | \$ 6 | 5,221,466.08 \$ | 801,965.84 \$ | 3,304,280.84 | 10,327,712.76 \$ | 713,453.45 \$ | 4,687,117.33 \$ | 7,740,592.91 \$ | 13,141,163.69 \$ | 11,646,611.06 \$ | 8,940,025.35 \$ | 9,762,426.82 \$ | 30,349,063.23 | 7,185,574.97 \$ | 6,676,756.55 | (9,677,062.66) \$ | 4,185,268.86 | \$ 58,003,208.54 |
| 8b | Real Time Non Excessive Energy Congestion | \$ | 788,846.39 \$ | (119,931.61) \$ | (244,425.15) \$ | 424,489.63 \$ | 562,216.26 \$ | (3,770,861.91) \$ | (1,317,934.47) \$ | (4,526,580.12) \$ | (1,049,875.29) \$ | (1,218,423.75) \$ | (129,250.24) \$ | (2,397,549.28) \$ | (337,782.81) \$ | (939,845.33) \$ | (1,132,268.97) \$ | (2,409,897.11) | \$ (8,909,536.88) |
| 8c | Real Time Non Excessive Energy Loss | \$ | 130,433.58 \$ | 40,093.71 \$ | (38,366.21) \$ | 132,161.08 \$ | 214,348.89 \$ | (427,757.52) \$ | 26,644.58 \$ | (186,764.05) \$ | (475,919.80) \$ | (313,577.95) \$ | (68,544.08) \$ | (858,041.83) \$ | 53,067.95 \$ | (92,186.09) \$ | 101,965.16 \$ | 62,847.02 | \$ (849,797.78) |
| | SUBTOTAL | \$ 7 | 7,192,215.66 \$ | 733,344.77 \$ | 3,048,602.72 | 10,974,163.15 \$ | 1,575,291.73 \$ | 616,783.28 \$ | 6,432,759.11 \$ | 8,624,834.12 \$ | 10,135,934.61 \$ | 7,365,334.18 \$ | 9,505,646.37 \$ | 27,006,915.16 | 7,020,607.30 \$ | 5,662,580.21 | \$ (10,718,121.22) \$ | 1,965,066.29 | \$ 48,570,978.72 |
| | | | | | | | | | | | | | | | | | | | |

GRAND TOTAL MISO ASM CHARGES \$ 5,082,100.22 \$ 654,191.31 \$ 2,969,045.06 \$ 8,705,336.59 \$ 1,328,660.97 \$ 284,302.67 \$ 5,955,465.34 \$ 7,568,428.98 \$ 10,096,563.12 \$ 7,274,211.45 \$ 9,411,452.48 \$ 26,782,227.05 \$ 7,085,902.09 \$ 5,504,478.59 \$ (12,635,614.32) \$ (45,233.64) \$ 43,010,758.98

SUMMARY OF MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES - INTERSYSTEM

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 6 Page 1 of 1

| | | Ja | nuary 22 | February 22 | March 22 | 1st Qt | April 22 | May 22 | June 22 | 2nd Qt | July 22 | August 22 | September 22 | 3rd Qt | October 22 | November 22 | December 22 | 4th Qt | YTD |
|--------|---|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|---------------|-------------------|--------------|---------------|----------------|--|--------------|-----------------|
| | | | | | | | | | | | | | | | | | | | |
| Regula | ation | | | | | | | | | | | | | | | | | | |
| 1 | Day-Ahead Regulation Amount | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| 4 | Real-Time Regulation Amount | \$ | 166,406.21 \$ | 88,068.49 \$ | 54,408.12 \$ | 308,882.82 \$ | 103,549.06 \$ | 188,988.85 \$ | 316,069.12 \$ | 608,607.03 \$ | 292,890.88 \$ | 259,142.57 | \$ 177,294.66 \$ | 729,328.11 | \$ 97,054.85 | \$ 72,614.86 | \$ 536,696.35 \$ | 706,366.06 | \$ 2,353,184.02 |
| | Real Time Regulation Reserve Cost Distribution Amou | ınt | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| | | \$ | 166,406.21 \$ | 88,068.49 \$ | 54,408.12 \$ | 308,882.82 \$ | 103,549.06 \$ | 188,988.85 \$ | 316,069.12 \$ | 608,607.03 \$ | 292,890.88 \$ | 259,142.57 | \$ 177,294.66 \$ | 729,328.11 | 97,054.85 | \$ 72,614.86 | \$ 536,696.35 \$ | 706,366.06 | \$ 2,353,184.02 |
| | ing Reserve | | | | | | | | | | | | | | | | | | |
| | Day-Ahead Spinning Reserve Amount | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | · - | \$ - |
| 5 | Real-Time Spinning Reserve Amount | \$ | 132,154.60 \$ | 174,674.36 \$ | 119,474.57 \$ | 426,303.53 \$ | 436,357.69 \$ | 360,033.38 \$ | 301,519.06 \$ | 1,097,910.13 \$ | 133,056.42 \$ | 249,599.56 | \$ 56,678.70 \$ | 439,334.68 | \$ 104,903.65 | \$ 242,036.15 | ###################################### | 1,619,939.80 | \$ 3,583,488.14 |
| | Real Time Spinning Reserve Cost Distribution | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | · - | \$ - |
| | | \$ | 132,154.60 \$ | 174,674.36 \$ | 119,474.57 \$ | 426,303.53 \$ | 436,357.69 \$ | 360,033.38 \$ | 301,519.06 \$ | 1,097,910.13 \$ | 133,056.42 \$ | 249,599.56 | \$ 56,678.70 \$ | 439,334.68 | 104,903.65 | \$ 242,036.15 | \$ 1,273,000.00 \$ | 1,619,939.80 | \$ 3,583,488.14 |
| | emental Reserve | | | | | | | | | | | | | | | | | | |
| | Day-Ahead Supplemental Reserve | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| | Real-Time Supplemental Reserve Amount. | \$ | 3,271.65 \$ | 6,412.99 \$ | 17,275.91 \$ | 26,960.55 \$ | 12,570.33 \$ | 40,577.83 \$ | 45,262.81 \$ | 98,410.97 \$ | 25,264.45 \$ | (18,350.33) | \$ 5,751.09 \$ | 12,665.21 | \$ 9,000.59 | \$ 5,420.08 | \$ 96,857.50 \$ | 111,278.17 | \$ 249,314.90 |
| | Real Time Supplemental Reserve Cost Distribution | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| | SUBTOTAL | \$ | 3,271.65 \$ | 6,412.99 \$ | 17,275.91 \$ | 26,960.55 \$ | 12,570.33 \$ | 40,577.83 \$ | 45,262.81 \$ | 98,410.97 \$ | 25,264.45 \$ | (18,350.33) | \$ 5,751.09 \$ | 12,665.21 | 9,000.59 | \$ 5,420.08 | \$ 96,857.50 \$ | 111,278.17 | \$ 249,314.90 |
| | Charges | | | _ | | | | | _ | | | | | | • | • | 6 (04.444.EE) a | | |
| | Real Time Contingency Reserve Deployment Failure | | - \$ | - \$ | 440.23 \$ | 440.23 \$ | - \$ | - \$ | - \$ | - \$ | - \$ | (= 1,= 11111) | | (51,511.01) | | \$ - | \$ (24,111.55) \$ | | |
| | Real Time Excessive/Deficient Energy Deployment | \$ | (21,318.10) \$ | | (11,043.60) \$ | (55,031.23) \$ | (23,552.22) \$ | (15,187.57) \$ | (35,196.70) \$ | (73,936.49) \$ | (58,684.36) \$ | | | | | | \$ (48,189.28) \$ | | . (. , , |
| | Real Time Net Regulation Adjustment Amount | \$ | (4,473.99) \$ | (7,766.78) \$ | (8,433.39) \$ | (20,674.16) \$ | 12,645.72 \$ | 22,247.79 \$ | 26,806.32 \$ | 61,699.83 \$ | (83,099.78) \$ | | | (99,691.27) | , | | \$ (50,934.05) \$ | | \$ (114,452.24) |
| | SUBTOTAL | \$ | (25,792.09) \$ | (30,436.31) \$ | (19,036.76) \$ | (75,265.16) \$ | (10,906.50) \$ | 7,060.22 \$ | (8,390.38) \$ | (12,236.66) \$ | (141,784.14) \$ | (120,382.82) | \$ (52,496.10) \$ | (314,663.06) | (30,610.55) | \$ (10,727.95) | \$ (123,234.88) \$ | (164,5/3.38) | \$ (566,738.26) |
| | TOTAL MISO ASM CHARGES | \$ | 276,040.37 \$ | 238,719.53 \$ | 172,121.84 \$ | 686,881.74 \$ | 541,570.58 \$ | 596,660.28 \$ | 654,460.61 \$ | 1,792,691.47 \$ | 309,427.61 \$ | 370,008.98 | \$ 187,228.35 \$ | 866,664.94 | 180,348.54 | \$ 309,343.14 | \$ 1,783,318.97 \$ | 2,273,010.65 | \$ 5,619,248.80 |
| | | | | | | | | | | | | | | | | | | | |
| | irce Energy Charges NOT INCLUDED IN Minnesota F | owe | r FORMAT | | | | | | | | | | | | | | | | |
| | Real Time Excessive Energy Amount | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| | Real Time Excessive Energy Congestion | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| | Real Time Excessive Energy Loss | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| | Real Time Non Excessive Energy Amount | | | | \$ | - | | | \$ | - | | | \$ | - | | | \$ | - | \$ - |
| | Real Time Non Excessive Energy Congestion | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - | 5 - 5 | - | - | \$ - | \$ - \$ | - | \$ - |
| | Real Time Non Excessive Energy Loss | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - | 5 - 5 | - | - | 5 - | 5 - 5 | - | \$ - |
| | SUBTOTAL | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | | \$ - \$ | - : | - | \$ - | \$ - \$ | | \$ - |

GRAND TOTAL MISO ASM CHARGES \$ 276,040.37 \$ 238,719.53 \$ 172,121.84 \$ 686,881.74 \$ 541,570.58 \$ 596,660.28 \$ 654,460.61 \$ 1,792,691.47 \$ 309,427.61 \$ 370,008.98 \$ 187,228.35 \$ 866,664.94 \$ 180,348.54 \$ 309,343.14 \$ 1,783,318.97 \$ 2,273,010.65 \$ 5,619,248.80

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 7 Page 1 of 1

| | Jan | uary 22 F | ebruary 22 | March 22 | 1st Qt | April 22 | May 22 | June 22 | 2nd Qt | July 22 | August 22 | September 22 | 3rd Qt | October 22 | November 22 | December 22 | 4th Qt | YTD |
|--|---------|----------------|-----------------|--------------|---|-----------------|-------------------|-------------------|-------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------|-----------------------|----------------|-------------------|
| | | | | | | | | | | | | | | | | | | |
| Regulation | | | | | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | \$ (1 | 164,671.79) \$ | (138,495.37) \$ | (148,111.43) | \$ (451,278.59) \$ | (248,040.09) \$ | (270,816.39) \$ | (387,629.86) \$ | (906,486.34) \$ | (385,722.15) | \$ (253,746.35) | \$ (165,160.75) \$ | (804,629.25) \$ | (169,858.02) \$ | (152,308.53) | \$ (249,550.24) \$ | (571,716.79) | \$ (2,734,110.97) |
| 4 Real-Time Regulation Amount | \$ 1 | 114,396.23 \$ | 71,932.90 \$ | 63,045.59 | \$ 249,374.72 \$ | 239,322.98 \$ | 186,288.21 \$ | 263,645.84 \$ | 689,257.03 \$ | 195,073.93 | \$ 33,998.91 | \$ 9,969.01 \$ | 239,041.85 \$ | 57,008.66 | 1,196.31 | \$ (39,906.49) \$ | 18,298.48 | \$ 1,195,972.08 |
| 10 Real Time Regulation Reserve Cost Distribution Amo | \$ 1 | 145,077.50 \$ | 145,134.02 \$ | 156,330.53 | \$ 446,542.05 \$ | 224,754.00 \$ | 241,752.01 \$ | 173,210.40 \$ | 639,716.41 \$ | 179,333.48 | \$ 162,246.14 | \$ 167,417.21 \$ | 508,996.83 \$ | 168,580.43 | 158,879.29 | \$ 171,280.59 \$ | 498,740.31 | \$ 2,093,995.60 |
| SUBTOTAL | \$ | 94,801.94 \$ | 78,571.55 \$ | 71,264.69 | \$ 244,638.18 \$ | 216,036.89 \$ | 157,223.83 \$ | 49,226.38 \$ | 422,487.10 \$ | (11,314.74) | \$ (57,501.30) | \$ 12,225.47 \$ | (56,590.57) \$ | 55,731.07 | 7,767.07 | \$ (118,176.14) \$ | (54,678.00) | \$ 555,856.71 |
| Spinning Reserve | | | | | | | | | | | | | | | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ (1 | 164,772.45) \$ | (192,760.35) \$ | (208,493.43) | \$ (566,026.23) \$ | (369,817.64) \$ | (343,047.30) \$ | (363,273.44) \$ | (1,076,138.38) \$ | (125,315.68) | \$ (155,482.31) | \$ (141,448.31) \$ | (422,246.30) \$ | (155,734.38) \$ | (290,932.16) | \$ (257,324.17) \$ | (703,990.71) | \$ (2,768,401.62) |
| 5 Real-Time Spinning Reserve Amount | \$ | 72,517.84 \$ | 122,013.12 \$ | 67,297.29 | \$ 261,828.25 \$ | 205,614.87 \$ | 218,694.47 \$ | 209,027.15 \$ | 633,336.49 \$ | 58,388.26 | \$ 147,458.87 | \$ 46,675.62 \$ | 252,522.75 \$ | 92,544.48 | 157,700.44 | \$ (106,113.30) \$ | 144,131.62 | \$ 1,291,819.11 |
| 11 Real Time Spinning Reserve Cost Distribution | \$ 1 | 102,882.19 \$ | 104,423.49 \$ | 154,236.36 | \$ 361,542.04 \$ | 231,564.74 \$ | 232,232.45 \$ | 179,382.02 \$ | 643,179.21 \$ | 61,170.38 | \$ 151,469.96 | \$ 84,635.27 \$ | 297,275.61 \$ | 178,758.16 | 224,083.74 | \$ 183,323.99 \$ | 586,165.89 | \$ 1,888,162.75 |
| SUBTOTAL | \$ | 10,627.58 \$ | 33,676.26 \$ | 13,040.22 | \$ 57,344.06 \$ | 67,361.97 \$ | 107,879.62 \$ | 25,135.73 \$ | 200,377.32 \$ | (5,757.04) | \$ 143,446.52 | \$ (10,137.42) \$ | 127,552.06 \$ | 115,568.26 | 90,852.02 | \$ (180,113.48) \$ | 26,306.80 | \$ 411,580.24 |
| Supplemental Reserve | | | | | | | | | | | | | | | | | | |
| 3 Day-Ahead Supplemental Reserve | \$ (| (54,159.30) \$ | (79,551.59) \$ | (106,263.39) | \$ (239,974.28) \$ | (163,033.09) \$ | (110,745.72) \$ | (134,198.92) \$ | (407,977.73) \$ | (130,607.05) | \$ (64,151.97) | \$ (43,561.26) \$ | (238,320.28) \$ | (37,684.30) \$ | (72,799.53) | \$ (372,288.87) \$ | (482,772.70) | \$ (1,369,044.99) |
| Real-Time Supplemental Reserve Amount. | \$ (| (20,647.11) \$ | 12,352.89 \$ | 16,809.35 | \$ 8,515.13 \$ | (1,794.33) \$ | 25,934.00 \$ | 38,378.23 \$ | 62,517.90 \$ | 132,251.18 | \$ 57,542.50 | \$ 13,353.94 \$ | 203,147.62 \$ | 14,870.63 | 15,240.57 | \$ (396,967.48) \$ | (366,856.28) | \$ (92,675.63) |
| 12 Real Time Supplemental Reserve Cost Distribution | \$ | 36,611.14 \$ | 91,758.52 \$ | 57,644.60 | \$ 186,014.26 \$ | 167,602.74 \$ | 71,168.60 \$ | 130,177.82 \$ | 368,949.16 \$ | 217,118.63 | \$ 22,395.93 | \$ 82,884.96 \$ | 322,399.52 \$ | 48,669.09 | 87,559.31 | 648,701.06 \$ | 784,929.46 | \$ 1,662,292.40 |
| SUBTOTAL | \$ (| (38,195.27) \$ | 24,559.82 \$ | (31,809.44) | \$ (45,444.89) \$ | 2,775.32 \$ | (13,643.12) \$ | 34,357.13 \$ | 23,489.33 \$ | 218,762.76 | \$ 15,786.46 | \$ 52,677.64 \$ | 287,226.86 \$ | 25,855.42 | 30,000.35 | \$ (120,555.29) \$ | (64,699.52) | \$ 200,571.78 |
| Other Charges | | | | | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | \$ | 212.24 \$ | 4,137.11 \$ | 440.23 | \$ 4,789.58 \$ | 984.90 \$ | 23.12 \$ | - \$ | 1,008.02 \$ | 3,929.16 | \$ 159,735.64 | \$ 76.47 \$ | 163,741.27 \$ | 4,189.63 | 1,891.62 | \$ 59,086.06 \$ | 65,167.31 | \$ 234,706.18 |
| 14 Real Time Contingency Reserve Deployment Failure | \$ | 25,614.25 \$ | 19,367.80 \$ | 34,837.27 | \$ 79,819.32 \$ | 13,982.44 \$ | 20,677.28 \$ | 55,779.61 \$ | 90,439.33 \$ | 24,353.27 | \$ 37,834.74 | \$ 30,824.05 \$ | 93,012.06 \$ | 38,319.17 | 24,399.35 | \$ 236,527.62 \$ | 299,246.14 | \$ 562,516.85 |
| 9 Real Time Net Regulation Adjustment Amount | \$ (1,9 | 927,135.81) \$ | (746.47) \$ | 4,791.21 | \$ (1,923,091.07) \$ | (6,201.70) \$ | (7,981.06) \$ | 12,667.99 \$ | (1,514.77) \$ | 40,082.71 | \$ (20,415.81) | \$ 7,368.25 \$ | 27,035.15 \$ | 5,979.78 | (3,668.89) | \$ (10,942.90) \$ | (8,632.01) | \$ (1,906,202.70) |
| SUBTOTAL | \$ (1,9 | 901,309.32) \$ | 22,758.44 \$ | 40,068.71 | \$ (1,838,482.17) \$ | 8,765.64 \$ | 12,719.34 \$ | 68,447.60 \$ | 89,932.58 \$ | 68,365.14 | \$ 177,154.57 | \$ 38,268.77 \$ | 283,788.48 \$ | 48,488.58 | 22,622.08 | \$ 284,670.78 \$ | 355,781.44 | \$ (1,108,979.67) |
| TOTAL MISO ASM CHARGES | \$ (1.8 | 334,075.07) \$ | 159.566.07 \$ | 92.564.18 | \$ (1,581,944.82) \$ | 294.939.82 \$ | 264.179.67 \$ | 177.166.84 \$ | 736.286.33 \$ | 270.056.12 | \$ 278.886.25 | \$ 93.034.46 \$ | 641.976.83 \$ | 245.643.33 | 151.241.52 | \$ (134.174.13) \$ | 262.710.72 | \$ 59.029.06 |
| | | . , , . | , | ,,,, | , (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | . , , | ., | , | ., | ., | , ., | | , , , , , , , | ., | , , , | . (-) | | ,, |
| Resource Energy Charges NOT INCLUDED IN Minnesota | Power | FORMAT | | | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | \$ | 51,469.61 \$ | 11,216.83 \$ | 27,113.24 | \$ 89,799.68 \$ | 85,273.13 \$ | 128,285.38 \$ | (16,543.91) \$ | 197,014.60 \$ | 15,118.64 | \$ (42,689.47) | \$ (58,986.13) \$ | (86,556.96) \$ | 119,747.19 | 17,855.08 | \$ (10,754.75) \$ | 126,847.52 | \$ 327,104.84 |
| 7b Real Time Excessive Energy Congestion | \$ | - \$ | - \$ | - | \$ - \$ | - \$ | - \$ | - \$ | - \$ | - : | \$ - | \$ - \$ | - \$ | - \$ | - : | - \$ | - : | \$ - |
| 7c Real Time Excessive Energy Loss | \$ | - \$ | - \$ | - | \$ - \$ | - \$ | - \$ | - \$ | - \$ | - : | \$ - | \$ - \$ | - \$ | - \$ | - : | - \$ | - : | \$ - |
| 8a Real Time Non Excessive Energy Amount | \$ 6,2 | 221,466.08 \$ | 801,965.84 \$ | 3,304,280.84 | \$ 10,327,712.76 \$ | 713,453.45 \$ | 4,687,117.33 \$ | 7,740,592.91 \$ | 13,141,163.69 \$ | 11,646,611.06 | \$ 8,940,025.35 | \$ 9,762,426.82 \$ | 30,349,063.23 \$ | 7,185,574.97 | 6,676,756.55 | \$ (9,677,062.66) \$ | 4,185,268.86 | \$ 58,003,208.54 |
| 8b Real Time Non Excessive Energy Congestion | \$ 7 | 788,846.39 \$ | (119,931.61) \$ | (244,425.15) | \$ 424,489.63 \$ | 562,216.26 \$ | (3,770,861.91) \$ | (1,317,934.47) \$ | (4,526,580.12) \$ | (1,049,875.29) | \$ (1,218,423.75) | \$ (129,250.24) \$ | (2,397,549.28) \$ | (337,782.81) \$ | (939,845.33) | \$ (1,132,268.97) \$ | (2,409,897.11) | \$ (8,909,536.88) |
| 8c Real Time Non Excessive Energy Loss | \$ 1 | 130,433.58 \$ | 40,093.71 \$ | (38,366.21) | \$ 132,161.08 \$ | 214,348.89 \$ | (427,757.52) \$ | 26,644.58 \$ | (186,764.05) \$ | (475,919.80) | \$ (313,577.95) | \$ (68,544.08) \$ | (858,041.83) \$ | 53,067.95 | (92,186.09) | \$ 101,965.16 \$ | 62,847.02 | \$ (849,797.78) |
| SUBTOTAL | \$ 7,1 | 192,215.66 \$ | 733,344.77 \$ | 3,048,602.72 | \$ 10,974,163.15 \$ | 1,575,291.73 \$ | 616,783.28 \$ | 6,432,759.11 \$ | 8,624,834.12 \$ | 10,135,934.61 | \$ 7,365,334.18 | \$ 9,505,646.37 \$ | 27,006,915.16 \$ | 7,020,607.30 | 5,662,580.21 | \$ (10,718,121.22) \$ | 1,965,066.29 | \$ 48,570,978.72 |
| | | | | | | | | | | | | | | | | | | |

GRAND TOTAL MISO ASM CHARGES \$ 5,358,140.59 \$ 892,910.84 \$ 3,141,166.90 \$ 9,392,218.33 \$ 1,870,231.55 \$ 880,962.95 \$ 9,361,120.45 \$ 10,405,990.73 \$ 7,644,220.43 \$ 9,598,680.83 \$ 27,648,891.99 \$ 7,266,250.63 \$ 5,813,821.73 \$ (10,852,295.35) \$ 2,227,777.01 \$ 48,630,007.78

Northern States Power Company

SUMMARY OF MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES - MINNESOTA RETAIL (WEIGHTED BY MWH SALES)

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 8 Page 1 of 1

| | | Ja | anuary 22 F | February 22 | March 22 | 1st Qt | April 22 | May 22 | June 22 | 2nd Qt | July 22 | August 22 | September 22 | 3rd Qt | October 22 | November 22 | December 22 | 4th Qt | YTD |
|-------|--|-------|------------------|-----------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-----------------|-----------------|-------------------|--------------|--------------------|--------------------------------------|--------------|-------------------|
| | | | | | | | | | | | | | | | | | | | |
| Regu | lation | | | | | | | | | | | | | | | | | | |
| 1 | Day-Ahead Regulation Amount | \$ | (115,235.71) \$ | (97,836.12) \$ | (104,401.56) \$ | (317,473.38) \$ | (175,940.52) \$ | (193,968.23) \$ | (279,987.90) \$ | (649,896.65) \$ | (282,470.18) \$ | (183,093.13) \$ | (119,195.88) \$ | (584,759.19) \$ | (120,441.49) | \$ (107,866.87) \$ | \$ (176,065.44) \$ | (404,373.80) | \$ (1,956,503.02) |
| 4 | Real-Time Regulation Amount | \$ | 80,053.36 \$ | 50,814.95 \$ | 44,439.90 \$ | 175,308.22 \$ | 169,757.28 \$ | 133,426.17 \$ | 190,433.33 \$ | 493,616.78 \$ | 142,855.60 \$ | 24,532.24 \$ | 7,194.60 \$ | 174,582.44 \$ | 40,423.22 | \$ 847.24 \$ | \$ (28,155.27) \$ | 13,115.19 | \$ 856,622.63 |
| 10 | Real Time Regulation Reserve Cost Distribution Amo | \$ | 101,523.81 \$ | 102,525.80 \$ | 110,195.08 \$ | 314,244.70 \$ | 159,423.17 \$ | 173,151.30 \$ | 125,111.14 \$ | 457,685.61 \$ | 131,328.63 \$ | 117,070.27 \$ | 120,824.36 \$ | 369,223.26 \$ | 119,535.59 | \$ 112,520.37 \$ | 120,843.77 \$ | 352,899.73 | \$ 1,494,053.29 |
| | SUBTOTAL | \$ | 66,341.47 \$ | 55,504.64 \$ | 50,233.43 \$ | 172,079.53 \$ | 153,239.92 \$ | 112,609.24 \$ | 35,556.58 \$ | 301,405.74 \$ | (8,285.96) \$ | (41,490.62) \$ | 8,823.07 \$ | (40,953.50) \$ | 39,517.32 | \$ 5,500.74 \$ | (83,376.93) \$ | (38,358.88) | \$ 394,172.89 |
| Spinn | ing Reserve | | | | | | | | | | | | | | | | | | |
| 2 | Day-Ahead Spinning Reserve Amount | \$ | (115,306.15) \$ | (136,170.07) \$ | (146,963.94) \$ | (398,440.15) \$ | (262,320.13) \$ | (245,702.55) \$ | (262,395.07) \$ | (770,417.76) \$ | (91,770.57) \$ | (112,189.76) \$ | (102,082.71) \$ | (306,043.04) \$ | (110,426.82) | \$ (206,041.92) \$ | \$ (181,550.19) \$ | (498,018.93) | \$ (1,972,919.88) |
| 5 | Real-Time Spinning Reserve Amount | \$ | 50,747.27 \$ | 86,192.70 \$ | 47,436.86 \$ | 184,376.84 \$ | 145,847.34 \$ | 156,636.68 \$ | 150,981.85 \$ | 453,465.87 \$ | 42,758.61 \$ | 106,400.37 \$ | 33,685.62 \$ | 182,844.59 \$ | 65,620.66 | \$ 111,685.49 \$ | \$ (74,866.23) \$ | 102,439.93 | \$ 923,127.23 |
| 11 | Real Time Spinning Reserve Cost Distribution | \$ | 71,995.95 \$ | 73,767.01 \$ | 108,718.93 \$ | 254,481.89 \$ | 164,254.18 \$ | 166,333.06 \$ | 129,568.95 \$ | 460,156.19 \$ | 44,796.00 \$ | 109,294.61 \$ | 61,080.95 \$ | 215,171.56 \$ | 126,752.33 | \$ 158,699.01 \$ | \$ 129,340.76 \$ | 414,792.09 | \$ 1,344,601.72 |
| | SUBTOTAL | \$ | 7,437.08 \$ | 23,789.64 \$ | 9,191.86 \$ | 40,418.57 \$ | 47,781.39 \$ | 77,267.18 \$ | 18,155.72 \$ | 143,204.29 \$ | (4,215.97) \$ | 103,505.22 \$ | (7,316.14) \$ | 91,973.11 \$ | 81,946.17 | \$ 64,342.58 \$ | \$ (127,075.65) \$ | 19,213.09 | \$ 294,809.07 |
| Supp | lemental Reserve | | | | | | | | | | | | | | | | | | |
| 3 | Day-Ahead Supplemental Reserve | \$ | (37,900.15) \$ | (56,196.96) \$ | (74,903.49) \$ | (169,000.60) \$ | (115,643.11) \$ | (79,319.98) \$ | (96,932.87) \$ | (291,895.96) \$ | (95,645.52) \$ | (46,289.47) \$ | (31,437.99) \$ | (173,372.99) \$ | (26,720.86) | \$ (51,557.57) \$ | \$ (262,661.35) \$ | (340,939.78) | \$ (975,209.33) |
| 6 | Real-Time Supplemental Reserve Amount. | \$ | (14,448.65) \$ | 8,726.35 \$ | 11,848.66 \$ | 6,126.36 \$ | (1,272.76) \$ | 18,574.84 \$ | 27,720.88 \$ | 45,022.96 \$ | 96,849.54 \$ | 41,520.35 \$ | 9,637.49 \$ | 148,007.38 \$ | 10,544.34 | \$ 10,793.57 \$ | \$ (280,072.87) \$ | (258,734.96) | \$ (59,578.26) |
| 12 | Real Time Supplemental Reserve Cost Distribution | \$ | 25,620.12 \$ | 64,820.20 \$ | 40,632.83 \$ | 131,073.14 \$ | 118,884.47 \$ | 50,973.46 \$ | 94,028.40 \$ | 263,886.32 \$ | 158,999.27 \$ | 16,160.00 \$ | 59,817.76 \$ | 234,977.02 \$ | 34,509.87 | \$ 62,010.64 \$ | \$ 457,678.72 \$ | 554,199.23 | \$ 1,184,135.71 |
| | SUBTOTAL | \$ | (26,728.68) \$ | 17,349.59 \$ | (22,422.00) \$ | (31,801.09) \$ | 1,968.60 \$ | (9,771.68) \$ | 24,816.41 \$ | 17,013.32 \$ | 160,203.29 \$ | 11,390.87 \$ | 38,017.25 \$ | 209,611.41 \$ | 18,333.34 | \$ 21,246.64 \$ | \$ (85,055.50) \$ | (45,475.52) | \$ 149,348.12 |
| Other | Charges | | | | | | | | | | | | | | | | | | |
| 14 | Real Time Contingency Reserve Deployment Failure | \$ | 148.52 \$ | 2,922.54 \$ | 310.31 \$ | 3,381.38 \$ | 698.61 \$ | 16.56 \$ | - \$ | 715.17 \$ | 2,877.38 \$ | 115,258.79 \$ | 55.19 \$ | 118,191.36 \$ | 2,970.75 | | | 45,997.47 | ,, |
| 13 | Real Time Excessive/Deficient Energy Deployment | \$ | 17,924.60 \$ | 13,681.83 \$ | 24,556.28 \$ | 56,162.71 \$ | 9,918.07 \$ | 14,809.80 \$ | 40,290.02 \$ | 65,017.88 \$ | 17,834.27 \$ | 27,300.02 \$ | 22,245.60 \$ | 67,379.89 \$ | 27,171.03 | \$ 17,279.94 \$ | \$ 166,877.57 \$ | 211,328.54 | \$ 399,889.03 |
| 9 | Real Time Net Regulation Adjustment Amount | | 1,348,590.77) \$ | (527.32) \$ | | (1,345,740.84) \$ | (4,399.01) \$ | (5,716.32) \$ | 9,150.18 \$ | (965.14) \$ | 29,353.18 \$ | (14,731.22) \$ | 5,317.64 \$ | 19,939.59 \$ | 4,240.09 | | | (-,, | \$ (1,332,845.21) |
| | SUBTOTAL | \$ (1 | 1,330,517.65) \$ | 16,077.05 \$ | 28,243.84 \$ | (1,286,196.75) \$ | 6,217.67 \$ | 9,110.04 \$ | 49,440.20 \$ | 64,767.91 \$ | 50,064.83 \$ | 127,827.59 \$ | 27,618.43 \$ | 205,510.84 \$ | 34,381.87 | \$ 16,021.25 \$ | \$ 200,844.07 \$ | 251,247.19 | \$ (764,670.81) |
| | | | | | | | | | | | | | | | | | | | |
| | TOTAL MISO ASM CHARGES | \$ (1 | 1,283,467.78) \$ | 112,720.91 \$ | 65,247.12 \$ | (1,105,499.74) \$ | 209,207.58 \$ | 189,214.78 \$ | 127,968.91 \$ | 526,391.27 \$ | 197,766.19 \$ | 201,233.06 \$ | 67,142.61 \$ | 466,141.87 \$ | 174,178.70 | \$ 107,111.20 | \$ (94,664.01) \$ | 186,625.89 | \$ 73,659.28 |
| - | 5 OI NOT WOULDED WAR | _ | FARMIT | | | | | | | | | | | | | | | | |
| | urce Energy Charges NOT INCLUDED IN Minnesota | Powe | 36.017.93 \$ | 7,000,04 | 40 444 70 . 0 | 00.050.40 | 00 400 40 | 04 000 50 . 0 | (44.040.70) 0 | 440.440.00 | 44.074.04.0 | (00.000.00) | (40.570.00) 0 | (00.004.45) 0 | 04.000.00 | 40.045.00 | (7.507.04) 0 | 00 000 74 | 0 004 407 00 |
| 7a | Real Time Excessive Energy Amount | \$ | 36,017.93 \$ | 7,923.81 \$ | 19,111.72 \$ | 63,053.46 \$ | 60,486.19 \$ | 91,882.50 \$ | (11,949.79) \$ | 140,418.90 \$ | 11,0/1.61 \$ | (30,803.00) \$ | (42,570.06) \$ | (62,301.45) \$ | 84,909.33 | \$ 12,645.20 \$ | (7,587.81) \$ | 89,966.71 | \$ 231,137.63 |
| 7b | Real Time Excessive Energy Congestion | \$ | - \$ | - 5 | - \$ | - 5 | - \$ | - \$ | - 5 | - \$ | - 5 | - \$ | - \$ | - \$ | - | - 3 | - \$ | - 1 | 5 - |
| 7c | Real Time Excessive Energy Loss | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | | D - 3 | - \$ | | \$ |
| 8a | Real Time Non Excessive Energy Amount | | 1,353,721.05 \$ | , | 2,329,138.72 \$ | 7,249,385.74 \$ | 506,068.89 \$ | 3,357,078.42 \$ | -,, | -,, + | 8,528,989.91 \$ | 6,450,761.51 \$ | .,, | 22,025,257.57 \$ | 5,095,086.77 | | (6,827,467.95) \$ | | |
| 8b | Real Time Non Excessive Energy Congestion | | 552,026.98 \$ | (84,722.28) \$ | (172,291.68) \$ | | | (2,700,824.04) \$ | (,, -, | (3,253,984.90) \$ | (,, , | (879,165.41) \$ | (| (1,741,284.41) \$ | (| . (| | () | . (., . , |
| 8c | Real Time Non Excessive Energy Loss | | 91,276.14 \$ | 28,323.06 \$ | (27,043.77) \$ | 92,555.43 \$ | 152,042.58 \$ | (306,374.99) \$ | 19,245.58 \$ | (135,086.84) \$ | (,, - | (226,265.19) \$ | (-,, -, | (624,256.48) \$ | 37,628.97 | \$ (65,287.38) \$ | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | \$ (622,506.71) |
| | SUBTOTAL | \$ 5 | 5,033,042.11 \$ | 518,050.56 \$ | 2,148,914.99 \$ | 7,700,007.67 \$ | 1,117,390.54 \$ | 441,761.90 \$ | 4,646,429.15 \$ | 6,205,581.59 \$ | 7,422,698.64 \$ | 5,314,527.91 \$ | 6,860,188.68 \$ | 19,597,415.22 \$ | 4,978,112.89 | \$ 4,010,312.63 | \$ (7,561,967.07) \$ | 1,426,458.45 | \$ 34,929,462.94 |
| | | | | | | | | | | | | | | | | | | | |

GRAND TOTAL MISO ASM CHARGES \$ 3,749,574.33 \$ 630,771.48 \$ 2,214,162.12 \$ 6,594,507.92 \$ 1,326,598.12 \$ 630,976.68 \$ 4,774,398.06 \$ 6,731,972.86 \$ 7,620,464.83 \$ 5,515,760.97 \$ 6,927,331.29 \$ 20,063,557.09 \$ 5,152,291.59 \$ 4,117,423.83 \$ (7,656,621.08) \$ 1,613,084.34 \$ 35,003,122.22

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Part B, Attachment 9 Page 1 of 13

| January 2022 | NET IN | VOICE | RET | TAIL . | INTERSYSTEM | I - ASSET BASED | INTERSYSTEM - NON-ASSET BASEI | |
|---|----------|------------------------------------|----------|--|-----------------------|----------------------------------|-------------------------------|----------|
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| Procurement Charges | IVI W II | Net Cost | IVI W II | Net Cost | IVI W II | Net Cost | IVI W II | Net Cost |
| | | ¢ (1(4(71.70) | | \$ 1,734.42 | \$ | \$ (166.406.21) | | |
| 1 Day-Ahead Regulation Amount2 Day-Ahead Spinning Reserve Amount | - | \$ (164,671.79) \$ (164,772.45) | - | \$ (32,617.85) | | \$ (166,406.21) | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (9,014.52) | - | \$ (5,742.87) | | \$ (132,154.60) \$ (3,271.65) | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (45,144.78) | - | \$ 92,997.03 | | \$ (3,271.03) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (190,151.79) | - | \$ (190,151.79) | " | (130,141.01) | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (59,636.76) | - | \$ (59,636.76) | | - 4 | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ (39,030.70) \$ 4,765.14 | - | \$ 4,765.14 | | - 4 | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ (28,683.90) | - | \$ (28,683.90) | | - ¢ | | |
| | - | (20,003.90) | - | Ψ (20,003.90) | / \(\psi \) | - Ψ | | |
| Resource Energy Charges | (6.474) | \$ 51,469.61 | ((474) | \$ F1 460.61 | Φ | Ф | | |
| 7a Real Time Excessive Energy Amount 7b Real Time Excessive Energy Congestion | (6,474) | \$ 51,409.01 | (6,474) | \$ 51,469.61 | - | - | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 344,304 | \$ 7,140,746.06 | 344,304 | \$ 7,140,746.06 | * | • | | |
| Bb Real Time Non Excessive Energy Congestion | 344,304 | φ /,140,740.00 | 344,304 | \$\\ \tau_1,140,740.00\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | - | - | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ (1,922,661.82) | - | \$ (1,927,135.81) | \$ - | \$ 4,473.99 | | |
| | - | ψ (1,922,001.02) | - | ψ (1,727,133.61) | / | φ 4,475.99 | | |
| ost Distribution Charges | | ф 44E 077 E0 | | ф 445.077.50 | # | dt. | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 145,077.50 | - | \$ 145,077.50 | | - | | |
| 11 Real Time Spinning Reserve Cost Distribution | - | \$ 102,882.19 | - | \$ 102,882.19 | " | - | | |
| 2 Real Time Supplemental Reserve Cost Distribution | - | \$ 19,154.78 | - | \$ 19,154.78 | | - | | |
| 13 Real Time Short Term Reserve Cost Distribution | - | \$ 17,456.36 | - | \$ 17,456.36 | - | - | | |
| enalty Charges | | * | | * 25 (1 4 25 | | 04.040.40 | | |
| 3 Real Time Excessive/Deficient Energy Deployment | - | \$ 46,932.35 | - | \$ 25,614.25 | - | \$ 21,318.10 | | |
| 14 Real Time Contingency Reserve Deployment Failure | - | \$ - | - | - | - | | | |
| 5 Real Time Short Term Reserve Deployment Failure | - | \$ 271.70 | | \$ 212.24 | | \$ 59.46 | | |
| MISO ASM CHARGES | 337,830 | | 337,830 | | | \$ (414,122.72) | | |
| Net Congestion Amount | - | \$ 788,846.39 | - | \$ 788,846.39 | " | - | | |
| Net Loss Amount | - | \$ 130,433.58 | - | \$ 130,433.58 | ** | - | | |
| Net Congestion and Loss Energy Offset | - | \$ (919,279.97) | - | \$ (919,279.97) |) \$ - | | | |
| SUBTOTAL Total MISO ASM CHARGES | 337,830 | \$ 4,944,017.88 | 337,830 | \$ 5,358,140.60 | | \$ (414,122.72) | | |

x No longer reported in 7b, 8by No longer reported in 7c, 8c

z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

Page 2 of 13

| February 2022 | NET IN | VOICE | RETAIL | | INTERSYSTEM | - ASSET BASED | INTERSYSTEM - NON-ASSET BASED | | |
|--|---------|-----------------|---------|-----------------|-------------|-----------------|-------------------------------|----------|--|
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | |
| Procurement Charges | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - | \$ (138,495.37) | - | \$ (50,426.88) | \$ - | \$ (88,068.49) | | | |
| 2 Day-Ahead Spinning Reserve Amount | - | \$ (192,760.35) | - | \$ (18,085.99) | \$ - | \$ (174,674.36) | | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (19,120.98) | - | \$ (12,707.99) | \$ | \$ (6,412.99) | | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (60,430.61) | - | \$ (13,061.22) | \$ | \$ (47,369.39) | | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (63,504.98) | - | \$ (63,504.98) | \$ - | \$ - | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (52,661.24) | - | \$ (52,661.24) | \$ | - | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ 2,951.20 | - | \$ 2,951.20 | \$ - | \$ - | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ 2,988.70 | - | \$ 2,988.70 | \$ - | \$ - | | | |
| Resource Energy Charges | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (1,597) | \$ 11,216.83 | (1,597) | \$ 11,216.83 | \$ - | - | | | |
| 7b Real Time Excessive Energy Congestion | | | , | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 46,309 | \$ 722,127.94 | 46,309 | \$ 722,127.94 | \$ - | \$ - | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ 7,020.31 | - | \$ (746.47) | \$ - | \$ 7,766.78 | | | |
| Cost Distribution Charges | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 145,134.02 | - | \$ 145,134.02 | \$ - | - | | | |
| 11 Real Time Spinning Reserve Cost Distribution | - | \$ 104,423.49 | - | \$ 104,423.49 | | - | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - | \$ 15,029.57 | - | \$ 15,029.57 | | - | | | |
| 13 Real Time Short Term Reserve Cost Distribution | - | \$ 76,728.95 | - | \$ 76,728.95 | \$ - | - | | | |
| enalty Charges | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | _ | \$ 42,037.33 | - | \$ 19,367.80 | - | \$ 22,669.53 | | | |
| 14 Real Time Contingency Reserve Deployment Failure | _ | \$ 4,137.11 | _ | \$ 4,137.11 | | \$ - | | | |
| 15 Real Time Short Term Reserve Deployment Failure | _ | \$ - | _ | | - | | | | |
| MISO ASM CHARGES | 44,712 | | 44,712 | | " | \$ (286,088.92) | | | |
| Net Congestion Amount | _ | \$ (119,931.61) | | \$ (119,931.61) | | - | | | |
| Net Loss Amount | _ | \$ 40,093.71 | _ | \$ 40,093.71 | | - | | | |
| Net Congestion and Loss Energy Offset | _ | \$ 79,837.90 | _ | \$ 79,837.90 | | - | | | |
| SUBTOTAL | _ | \$ - | - | \$ - | - | - | | | |
| Total MISO ASM CHARGES | 44,712 | \$ 606,821.92 | 44,712 | \$ 892,910.84 | \$ - | \$ (286,088.92) | | | |

x No longer reported in 7b, 8b

y No longer reported in 7c, 8c

z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

| March 2022 | NET INVO | DICE | RET | AIL | INTERSYSTEM | I - ASSET BASED | INTERSYSTEM | - NON-ASSET BASEI |
|---|-----------|--------------|--------|-----------------|-------------|-----------------|-------------|-------------------|
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| rocurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - \$ | (148,111.43) | - | \$ (93,703.31) | \$ - | \$ (54,408.12) | | |
| 2 Day-Ahead Spinning Reserve Amount | - \$ | (208,493.43) | - | \$ (89,018.86) | \$ - | \$ (119,474.57) | | |
| 3 Day-Ahead Supplemental Reserve | - \$ | (28,793.69) | - | \$ (11,517.78) | \$ - | \$ (17,275.91) | | |
| 4 Day-Ahead Short Term Reserve Amount | - \$ | (77,469.70) | - | \$ (32,173.99) | \$ - | \$ (45,295.71) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - \$ | (36,658.24) | - | \$ (36,658.24) | \$ - | \$ | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - \$ | (52,177.28) | - | \$ (52,177.28) | \$ - | \$ - | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - \$ | 1,599.39 | - | \$ 1,599.39 | \$ - | \$ - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - \$ | (2,065.95) | - | \$ (2,065.95) | \$ - | \$ - | | |
| esource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (606) \$ | 27,113.24 | (606) | \$ 27,113.24 | \$ - | - | | |
| b Real Time Excessive Energy Congestion | · · | | | | | | | |
| c Real Time Excessive Energy Loss | | | | | | | | |
| a Real Time Non Excessive Energy Amount | 30,072 \$ | 3,021,489.48 | 30,072 | \$ 3,021,489.48 | \$ - | | | |
| b Real Time Non Excessive Energy Congestion | | | | | | | | |
| c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - \$ | 13,224.60 | - | \$ 4,791.21 | \$ - | \$ 8,433.39 | | |
| ost Distribution Charges | | | | | | | | |
| 0 Real Time Regulation Reserve Cost Distribution Amount | - \$ | 156,330.53 | - | \$ 156,330.53 | \$ - | - | | |
| 1 Real Time Spinning Reserve Cost Distribution | - \$ | 154,236.36 | - | \$ 154,236.36 | \$ - | - | | |
| 2 Real Time Supplemental Reserve Cost Distribution | - \$ | 10,618.75 | - | \$ 10,618.75 | \$ - | - | | |
| 3 Real Time Short Term Reserve Cost Distribution | - \$ | 47,025.85 | - | \$ 47,025.85 | \$ - | - | | |
| nalty Charges | | | | | | | | |
| 3 Real Time Excessive/Deficient Energy Deployment | - \$ | 45,880.87 | _ | \$ 34,837.27 | \$ - | \$ 11,043.60 | | |
| 4 Real Time Contingency Reserve Deployment Failure | - \$ | - | _ | \$ 440.23 | \$ - | \$ (440.23) | | |
| 5 Real Time Short Term Reserve Deployment Failure | - \$ | _ | _ | \$ - | \$ - | \$ - | | |
| MISO ASM CHARGES | 29,466 \$ | 2,923,749.35 | 29,466 | \$ 3,141,166.90 | \$ - | \$ (217,417.55) |) | |
| Net Congestion Amount | - \$ | (244,425.15) | - | \$ (244,425.15) | | - | | |
| Net Loss Amount | - \$ | (38,366.21) | - | \$ (38,366.21) | | \$ - | | |
| Net Congestion and Loss Energy Offset | - \$ | 282,791.36 | _ | \$ 282,791.36 | | - | | |
| SUBTOTAL | - \$ | - | - | \$ - | \$ - | \$ - | | |
| Total MISO ASM CHARGES | 29,466 \$ | 2,923,749.35 | 29,466 | \$ 3,141,166.90 | \$ - | \$ (217,417.55) | | |

x No longer reported in 7b, 8b

y No longer reported in 7c, 8c

z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

| | | | | | | | | Page 4 of 13 |
|--|------------------|--------------|---------|-----------------|-------------|-----------------|---------------|-----------------|
| April 2022 | NET INV | OICE | RET | 'AIL | INTERSYSTEM | - ASSET BASED | INTERSYSTEM - | NON-ASSET BASED |
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| Procurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - \$ | (248,040.09) | - | \$ (144,491.03) | \$ - | \$ (103,549.06) | | |
| 2 Day-Ahead Spinning Reserve Amount | - \$ | (369,817.64) | - | \$ 66,540.05 | \$ - | \$ (436,357.69) | | |
| 3 Day-Ahead Supplemental Reserve | - \$ | (30,446.14) | - | \$ (17,875.81) | \$ - | \$ (12,570.33) | | |
| 4 Day-Ahead Short Term Reserve Amount | - \$ | (132,586.95) | - | \$ 30,978.41 | \$ | \$ (163,565.36) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - \$ | (27,791.44) | - | \$ (27,791.44) | \$ | \$ - | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - \$ | (230,742.82) | - | \$ (230,742.82) | \$ | - | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - \$ | 4,860.88 | - | \$ 4,860.88 | \$ | - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - \$ | (19,225.54) | - | \$ (19,225.54) | \$ - | - | | |
| Resource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (5,167) \$ | 85,273.13 | (5,167) | \$ 85,273.13 | \$ - | \$ - | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 93,984 \$ | 1,490,018.60 | 93,984 | \$ 1,490,018.60 | \$ - | \$ - | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - \$ | (18,847.42) | - | \$ (6,201.70) | \$ - | \$ (12,645.72) | | |
| Cost Distribution Charges | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - \$ | 224,754.00 | - | \$ 224,754.00 | \$ - | - | | |
| 11 Real Time Spinning Reserve Cost Distribution | - \$ | 231,564.74 | - | \$ 231,564.74 | | - | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - \$ | 22,856.56 | - | \$ 22,856.56 | | - | | |
| 13 Real Time Short Term Reserve Cost Distribution | - \$ | 144,746.18 | - | \$ 144,746.18 | | - | | |
| Penalty Charges | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | - \$ | 37,534.66 | _ | \$ 13,982.44 | \$ - | \$ 23,552.22 | | |
| 14 Real Time Contingency Reserve Deployment Failure | - \$ | - | _ | \$ - | \$ - | \$ - | | |
| 15 Real Time Short Term Reserve Deployment Failure | - ^π | 7,028.70 | - | \$ 984.90 | \$ - | \$ 6,043.80 | | |
| MISO ASM CHARGES | 88,816 \$ | | 88,816 | " | | \$ (699,092.14) | | |
| x Net Congestion Amount | - \$ | 562,216.26 | _ | \$ 562,216.26 | | - | | |
| v Net Loss Amount | - * | 214,348.89 | - | \$ 214,348.89 | | - | | |
| z Net Congestion and Loss Energy Offset | - * | (776,565.15) | - | \$ (776,565.15) | | - | | |
| SUBTOTAL | - \$ | - | - | \$ - | \$ - | - | | |
| Total MISO ASM CHARGES | 88,816 \$ | 1,171,139.41 | 88,816 | \$ 1,870,231.55 | \$ - | \$ (699,092.14) | | |

x No longer reported in 7b, 8b

y No longer reported in 7c, 8c

z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9 Page 5 of 13

| | | | | | | | 1 | Page 5 of 13 |
|--|---------|-------------------|---------|-------------------|---------------|-----------------|---------------|-----------------|
| May 2022 | NET IN | VOICE | RET | CAIL | INTERSYSTEM - | ASSET BASED | INTERSYSTEM - | NON-ASSET BASED |
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| Procurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - | \$ (270,816.39) | - | \$ (81,827.54) | \$ - | \$ (188,988.85) | | |
| 2 Day-Ahead Spinning Reserve Amount | - | \$ (343,047.30) | - | \$ 16,986.08 | \$ - | \$ (360,033.38) | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (43,170.88) | - | \$ (2,593.05) | \$ - | \$ (40,577.83) | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (67,574.84) | - | \$ 14,984.14 | \$ - | \$ (82,558.98) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (85,259.62) | - | \$ (85,259.62) | \$ - | \$ - | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (141,338.91) | - | \$ (141,338.91) | \$ - | \$ - | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ (6,545.99) | - | \$ (6,545.99) | \$ - | \$ - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ (8,097.84) | - | \$ (8,097.84) | \$ - | \$ - | | |
| Resource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (3,720) | \$ 128,285.38 | (3,720) | \$ 128,285.38 | \$ - | \$ - | | |
| 7b Real Time Excessive Energy Congestion | | | , | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 214,696 | \$ 488,497.91 | 214,696 | \$ 488,497.91 | \$ - | \$ - | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ (30,228.85) | - | \$ (7,981.06) | \$ - | \$ (22,247.79) | | |
| Cost Distribution Charges | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 241,752.01 | - | \$ 241,752.01 | \$ - | \$ - | | |
| 11 Real Time Spinning Reserve Cost Distribution | - | \$ 232,232.45 | _ | \$ 232,232.45 | \$ - | \$ - | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - | \$ 17,828.01 | - | \$ 17,828.01 | \$ - | \$ - | | |
| 13 Real Time Short Term Reserve Cost Distribution | - | \$ 53,340.59 | - | \$ 53,340.59 | \$ - | \$ - | | |
| Penalty Charges | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | - | \$ 35,864.85 | - | \$ 20,677.28 | \$ - | \$ 15,187.57 | | |
| 14 Real Time Contingency Reserve Deployment Failure | - | \$ - | - | \$ - | \$ - | \$ - | | |
| 15 Real Time Short Term Reserve Deployment Failure | _ | \$ 23.12 | - | \$ 23.12 | \$ - | \$ | | |
| MISO ASM CHARGES | 210,976 | " | 210,976 | | | \$ (679,219.26) | | |
| x Net Congestion Amount | - | \$ (3,770,861.91) | - | \$ (3,770,861.91) | | \$ - | | |
| y Net Loss Amount | - | \$ (427,757.52) | - | \$ (427,757.52) | | \$ | | |
| Net Congestion and Loss Energy Offset | - | \$ 4,198,619.43 | - | \$ 4,198,619.43 | | \$ - | | |
| SUBTOTAL | - | \$ - | - | \$ - | \$ - | \$ - | | |
| Total MISO ASM CHARGES | 210,976 | \$ 201,743.70 | 210,976 | \$ 880,962.96 | \$ - | \$ (679,219.26) | | · |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

June 2022

MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES

NET INVOICE

247,785 \$

247,785 \$

Docket No. E002/AA-21-295

INTERSYSTEM - NON-ASSET BASED

INTERSYSTEM - ASSET BASED

35,196.70

(730,540.80)

(730,540.80)

18.75

True-up Report

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Part B, Attachment 9

| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
|--|---------|-----------------|---------|-----------------|------|-----------------|-----|----------|
| Procurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - | \$ (387,629.86) | - | \$ (71,560.74) | \$ - | \$ (316,069.12) | | |
| 2 Day-Ahead Spinning Reserve Amount | - | \$ (363,273.44) | - | \$ (61,754.38) | \$ - | \$ (301,519.06) | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (54,393.60) | - | \$ (9,130.79) | \$ - | \$ (45,262.81) | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (79,805.32) | - | \$ (3,706.38) | \$ - | \$ (76,098.94) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (128,522.22) | - | \$ (128,522.22) | \$ - | \$ - | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (92,491.91) | - | \$ (92,491.91) | \$ - | \$ - | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ (6,035.22) | - | \$ (6,035.22) | \$ - | \$ - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ (849.36) | - | \$ (849.36) | \$ - | \$ - | | |
| Resource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (2,256) | \$ (16,543.91) | (2,256) | \$ (16,543.91) | \$ - | - | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 250,041 | \$ 6,449,303.01 | 250,041 | \$ 6,449,303.01 | \$ | \$ - | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ (14,138.33) | - | \$ 12,667.99 | \$ - | \$ (26,806.32) | | |
| Cost Distribution Charges | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 173,210.40 | - | \$ 173,210.40 | \$ - | - | | |

179,382.02

45,537.08

84,640.74

90,976.31

5,879,385.14

(1,317,934.47)

26,644.58

1,291,289.89

5,879,385.14

18.75

RETAIL

179,382.02 \$

45,537.08 \$

84,640.74 \$

55,779.61 \$

6,609,925.94 \$

(1,317,934.47) \$ 26,644.58 \$

1,291,289.89 \$

6,609,925.94 \$

247,785 \$

247,785 \$

MISO ASM CHARGES

Net Congestion and Loss Energy Offset

Total MISO ASM CHARGES

x Net Congestion Amount

Net Loss Amount

SUBTOTAL

Penalty Charges

11 Real Time Spinning Reserve Cost Distribution

12 Real Time Supplemental Reserve Cost Distribution

13 Real Time Excessive/Deficient Energy Deployment

14 Real Time Contingency Reserve Deployment Failure15 Real Time Short Term Reserve Deployment Failure

13 Real Time Short Term Reserve Cost Distribution

x No longer reported in 7b, 8b

y No longer reported in 7c, 8c

No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

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| | | | | | 1 | | 1 | Page 7 of |
|--|---------|-------------------|---------|-------------------|-------------|-----------------|---------------|-----------------|
| July 2022 | NET IN | VOICE | RET | 'AIL | INTERSYSTEM | I - ASSET BASED | INTERSYSTEM - | NON-ASSET BASEI |
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| Procurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - | \$ (385,722.15) | - | \$ (92,831.27) | \$ - | \$ (292,890.88) | | |
| 2 Day-Ahead Spinning Reserve Amount | - | \$ (125,315.68) | - | \$ 7,740.74 | \$ - | \$ (133,056.42) | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (95,667.64) | - | \$ (70,403.19) | \$ - | \$ (25,264.45) | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (34,939.41) | - | \$ (18,405.28) | \$ - | \$ (16,534.13) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (97,816.95) | - | \$ (97,816.95) | \$ - | \$ - | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (74,668.16) | - | \$ (74,668.16) | \$ - | \$ - | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ 105,789.17 | - | \$ 105,789.17 | \$ - | \$ - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ 1,197.56 | - | \$ 1,197.56 | \$ - | \$ - | | |
| Resource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (3,634) | \$ 15,118.64 | (3,634) | \$ 15,118.64 | \$ - | \$ - | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 185,719 | \$ 10,120,815.97 | 185,719 | \$ 10,120,815.97 | \$ - | \$ - | | |
| Bb Real Time Non Excessive Energy Congestion | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ 123,182.49 | - | \$ 40,082.71 | \$ - | \$ 83,099.78 | | |
| ost Distribution Charges | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 179,333.48 | - | \$ 179,333.48 | \$ - | \$ - | | |
| 11 Real Time Spinning Reserve Cost Distribution | - | \$ 61,170.38 | - | \$ 61,170.38 | | \$ - | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - | \$ 158,383.18 | - | \$ 158,383.18 | \$ - | \$ - | | |
| 13 Real Time Short Term Reserve Cost Distribution | - | \$ 58,735.45 | - | \$ 58,735.45 | | \$ - | | |
| enalty Charges | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | - | \$ 83,037.63 | - | \$ 24,353.27 | \$ - | \$ 58,684.36 | | |
| 14 Real Time Contingency Reserve Deployment Failure | _ | \$ 3,929.16 | _ | \$ 3,929.16 | | \$ - | | |
| 15 Real Time Short Term Reserve Deployment Failure | _ | \$ - | - | \$ - | - | - | | |
| MISO ASM CHARGES | 182,085 | " | 182,085 | " | \$ - | \$ (325,961.74) | | |
| Net Congestion Amount | - | \$ (1,049,875.29) | - | \$ (1,049,875.29) | | - | | |
| Net Loss Amount | _ | \$ (475,919.80) | - | \$ (475,919.80) | | - | | |
| Net Congestion and Loss Energy Offset | _ | \$ 1,525,795.09 | - | \$ 1,525,795.09 | | - | | |
| SUBTOTAL | _ | \$ - | - | \$ - | - | - | | |
| Total MISO ASM CHARGES | 182,085 | \$ 10,096,563.12 | 182,085 | \$ 10,422,524.86 | \$ - | \$ (325,961.74) | | |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

| August 2022 | NET INV | OICE | RETAI | IL | INTERSYSTEM | - ASSET BASED | INTERSYSTEM - | NON-ASSET BASEI |
|--|------------|----------------|------------|----------------|-------------|-----------------|---------------|-----------------|
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| Procurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - \$ | (253,746.35) | - \$ | 5,396.22 | \$ - | \$ (259,142.57) | | |
| 2 Day-Ahead Spinning Reserve Amount | - \$ | (155,482.31) | - \$ | 94,117.25 | \$ | \$ (249,599.56) | | |
| 3 Day-Ahead Supplemental Reserve | - \$ | (39,161.50) | - \$ | (57,511.83) | \$ - | \$ 18,350.33 | | |
| 4 Day-Ahead Short Term Reserve Amount | - \$ | (24,990.47) | - \$ | (10,382.54) | \$ | \$ (14,607.93) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - \$ | (225,143.66) | - \$ | (225,143.66) | \$ | \$ - | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - \$ | (102,140.69) | - \$ | (102,140.69) | \$ | - | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - \$ | 76,077.64 | - \$ | 76,077.64 | \$ | - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - \$ | (184.81) | - \$ | (184.81) | \$ | - | | |
| Resource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (1,362) \$ | (42,689.47) | (1,362) \$ | (42,689.47) | \$ - | - | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 144,415 \$ | 7,408,023.66 | 144,415 \$ | 7,408,023.66 | \$ - | \$ - | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - \$ | (13,172.62) | - \$ | (20,415.81) | \$ - | \$ 7,243.19 | | |
| ost Distribution Charges | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - \$ | 162,246.14 | - \$ | 162,246.14 | \$ - | - | | |
| 11 Real Time Spinning Reserve Cost Distribution | - \$ | 151,469.96 | - \$ | 151,469.96 | | - | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - \$ | 5,635.85 | - \$ | 5,635.85 | \$ - | - | | |
| 13 Real Time Short Term Reserve Cost Distribution | - \$ | 16,760.08 | - \$ | 16,760.08 | \$ - | - | | |
| enalty Charges | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | - \$ | 99,463.36 | - \$ | 37,834.74 | \$ - | \$ 61,628.62 | | |
| 14 Real Time Contingency Reserve Deployment Failure | - "\$ | 211,246.65 | - * | 159,735.64 | | \$ 51,511.01 | | |
| 15 Real Time Short Term Reserve Deployment Failure | - \$ | - | - \$ | - | \$ - | \$ - | | |
| MISO ASM CHARGES | 143,053 \$ | 7,274,211.46 | 143,053 \$ | 7,658,828.37 | \$ - | \$ (384,616.91) | | |
| Net Congestion Amount | - \$ | (1,218,423.75) | - \$ | (1,218,423.75) | | - | | |
| Net Loss Amount | - \$ | (313,577.95) | - \$ | (313,577.95) | | - | | |
| Net Congestion and Loss Energy Offset | - \$ | 1,532,001.70 | - " | 1,532,001.70 | | - | | |
| SUBTOTAL | - \$ | - | - I \$ | - | \$ - | - | | |
| Total MISO ASM CHARGES | 143,053 \$ | 7,274,211.46 | 143,053 \$ | 7,658,828.37 | \$ - | \$ (384,616.91) | | |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

| Page | 9 | of | 1. |
|------|---|----|----|

| | | | | | | | T | Page 9 of 1 |
|--|---------|-----------------|---------|-----------------|-------------|-----------------|---------------|-----------------|
| September 2022 | NET IN | VOICE | RET | AIL | INTERSYSTEM | I - ASSET BASED | INTERSYSTEM - | NON-ASSET BASET |
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| Procurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - | \$ (165,160.75) | - | \$ 12,133.91 | \$ - | \$ (177,294.66) | | |
| 2 Day-Ahead Spinning Reserve Amount | - | \$ (141,448.31) | - | \$ (84,769.61) | \$ - | \$ (56,678.70) | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (23,017.01) | - | \$ (17,265.92) | \$ - | \$ (5,751.09) | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (20,544.25) | - | \$ 2,137.34 | \$ - | \$ (22,681.59) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (167,325.65) | - | \$ (167,325.65) | \$ - | \$ - | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (10,003.08) | - | \$ (10,003.08) | \$ - | \$ - | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ 5,741.16 | - | \$ 5,741.16 | \$ - | \$ - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ 1,861.69 | - | \$ 1,861.69 | \$ - | \$ - | | |
| Resource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (2,074) | \$ (58,986.13) | (2,074) | \$ (58,986.13) | \$ - | - | | |
| 7b Real Time Excessive Energy Congestion | | | , | , | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 207,155 | \$ 9,564,632.50 | 207,155 | \$ 9,564,632.50 | \$ - | \$ - | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ 16,716.55 | - | \$ 7,368.25 | \$ - | \$ 9,348.30 | | |
| Cost Distribution Charges | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 167,417.21 | - | \$ 167,417.21 | \$ - | - | | |
| 11 Real Time Spinning Reserve Cost Distribution | - | \$ 84,635.27 | - | \$ 84,635.27 | | - | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - | \$ 29,732.70 | - | \$ 29,732.70 | \$ | \$ - | | |
| 13 Real Time Short Term Reserve Cost Distribution | - | \$ 53,152.26 | - | \$ 53,152.26 | \$ | \$ - | | |
| enalty Charges | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | - | \$ 73,971.85 | _ | \$ 30,824.05 | \$ - | \$ 43,147.80 | | |
| 14 Real Time Contingency Reserve Deployment Failure | - | \$ - | _ | \$ - | \$ - | \$ - | | |
| 15 Real Time Short Term Reserve Deployment Failure | - | \$ 82.94 | - | \$ 76.47 | \$ - | \$ 6.47 | | |
| MISO ASM CHARGES | 205,081 | " | 205,081 | | | \$ (209,903.47) | | |
| Net Congestion Amount | - | \$ (129,250.24) | - | \$ (129,250.24) | | - | | |
| Net Loss Amount | _ | \$ (68,544.08) | - | \$ (68,544.08) | | - | | |
| Net Congestion and Loss Energy Offset | _ | \$ 197,794.32 | - | \$ 197,794.32 | | - | | |
| SUBTOTAL | _ | \$ - | - | \$ - | - | - | | |
| Total MISO ASM CHARGES | 205,081 | \$ 9,411,458.95 | 205,081 | \$ 9,621,362.42 | \$ - | \$ (209,903.47) | | |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

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| October 2022 | NET IN | NET INVOICE | | FAIL | INTERSYSTEM | - ASSET BASED | INTERSYSTEM - NON-ASSET BASE | | | |
|--|---------|-----------------|---------|-----------------|-------------|-----------------|------------------------------|----------|--|--|
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | | |
| Procurement Charges | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - | \$ (169,858.02) | - | \$ (72,803.17) | \$ - | \$ (97,054.85) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | - | \$ (155,734.38) | - | \$ (50,830.73) | \$ - | \$ (104,903.65) | | | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (15,467.08) | - | \$ (6,466.49) | \$ - | \$ (9,000.59) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (22,217.22) | - | \$ (7,935.91) | \$ - | \$ (14,281.31) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (40,046.19) | - | \$ (40,046.19) | \$ - | - | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (12,359.17) | - | \$ (12,359.17) | \$ - | - | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ 2,601.55 | - | \$ 2,601.55 | \$ - | - | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ 3,268.49 | - | \$ 3,268.49 | \$ - | - | | | | |
| Resource Energy Charges | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (5,925) | \$ 119,747.19 | (5,925) | \$ 119,747.19 | \$ - | - | | | | |
| 7b Real Time Excessive Energy Congestion | | | , | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 232,601 | \$ 6,900,860.11 | 232,601 | \$ 6,900,860.11 | \$ - | \$ - | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ 13,454.16 | - | \$ 5,979.78 | \$ - | \$ 7,474.38 | | | | |
| Cost Distribution Charges | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 168,580.43 | - | \$ 168,580.43 | \$ - | - | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | - | \$ 178,758.16 | _ | \$ 178,758.16 | | - | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - | \$ 22,145.93 | - | \$ 22,145.93 | | - | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | - | \$ 26,523.16 | - | \$ 26,523.16 | | - | | | | |
| Penalty Charges | | | | | " | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | _ | \$ 61,455.34 | - | \$ 38,319.17 | - | \$ 23,136.17 | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | _ | \$ - | _ | \$ - | \$ - | \$ - | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | - | \$ 5,852.90 | - | \$ 4,189.63 | \$ - | \$ 1,663.27 | | | | |
| MISO ASM CHARGES | 226,676 | | 226,676 | | | \$ (192,966.58) | | | | |
| Net Congestion Amount | - | \$ (337,782.81) | | \$ (337,782.81) | | - | | | | |
| Net Loss Amount | _ | \$ 53,067.95 | _ | \$ 53,067.95 | | - | | | | |
| Net Congestion and Loss Energy Offset | _ | \$ 284,714.86 | _ | \$ 284,714.86 | | - | | | | |
| SUBTOTAL | _ | \$ - | _ | \$ - | \$ - | - | | | | |
| Total MISO ASM CHARGES | 226,676 | \$ 7,087,565.36 | 226,676 | \$ 7,280,531.94 | \$ - | \$ (192,966.58) | | | | |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

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| November 2022 | NET IN | VOICE | RET | AIL | INTERSYSTEM | - ASSET BASED | INTERSYSTEM - NON-ASSET BAS | | |
|---|---------|-----------------|---------|-----------------|-------------|-----------------|-----------------------------|----------|--|
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | |
| Procurement Charges | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - | \$ (152,308.53) | - | \$ (79,693.67) | \$ - | \$ (72,614.86) | | | |
| 2 Day-Ahead Spinning Reserve Amount | - | \$ (290,932.16) | - | \$ (48,896.01) | \$ - | \$ (242,036.15) | | | |
| 3 Day-Ahead Supplemental Reserve | - | \$ (15,535.56) | - | \$ (10,115.48) | \$ - | \$ (5,420.08) | | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (57,263.97) | - | \$ 13,738.70 | \$ | \$ (71,002.67) | | | |
| 5 Real-Time Regulation Amount (See Note 1) | - | \$ (71,418.55) | - | \$ (71,418.55) | \$ - | \$ - | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - | \$ (84,335.71) | - | \$ (84,335.71) | \$ | - | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - | \$ 13,463.47 | - | \$ 13,463.47 | \$ - | - | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ (3,642.98) | - | \$ (3,642.98) | \$ - | - | | | |
| esource Energy Charges | | | | | | | | | |
| 'a Real Time Excessive Energy Amount | (1,639) | \$ 17,855.08 | (1,639) | \$ 17,855.08 | \$ - | - | | | |
| b Real Time Excessive Energy Congestion | | | | | | | | | |
| c Real Time Excessive Energy Loss | | | | | | | | | |
| a Real Time Non Excessive Energy Amount | 257,360 | \$ 5,644,725.13 | 257,360 | \$ 5,644,725.13 | \$ - | \$ - | | | |
| b Real Time Non Excessive Energy Congestion | | | | | | | | | |
| Bc Real Time Non Excessive Energy Loss | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - | \$ (6,290.68) | - | \$ (3,668.89) | \$ - | \$ (2,621.79) | | | |
| ost Distribution Charges | | | | | | | | | |
| 0 Real Time Regulation Reserve Cost Distribution Amount | - | \$ 158,879.29 | - | \$ 158,879.29 | \$ - | - | | | |
| 1 Real Time Spinning Reserve Cost Distribution | - | \$ 224,083.74 | - | \$ 224,083.74 | | - | | | |
| 2 Real Time Supplemental Reserve Cost Distribution | - | \$ 7,150.09 | - | \$ 7,150.09 | | - | | | |
| 3 Real Time Short Term Reserve Cost Distribution | - | \$ 80,409.22 | - | \$ 80,409.22 | \$ - | - | | | |
| nalty Charges | | | | | | | | | |
| 3 Real Time Excessive/Deficient Energy Deployment | _ | \$ 37,749.09 | - | \$ 24,399.35 | \$ - | \$ 13,349.74 | | | |
| 4 Real Time Contingency Reserve Deployment Failure | _ | \$ 125.90 | _ | \$ 125.90 | | \$ - | | | |
| 5 Real Time Short Term Reserve Deployment Failure | - | " | _ | \$ 1,765.72 | | \$ 144.31 | | | |
| MISO ASM CHARGES | 255,721 | | 255,721 | | | \$ (380,201.50) | | | |
| Net Congestion Amount | _ | \$ (939,845.33) | _ | \$ (939,845.33) | | - | | | |
| Net Loss Amount | _ | \$ (92,186.09) | _ | \$ (92,186.09) | | - | | | |
| Net Congestion and Loss Energy Offset | _ | \$ 1,032,031.42 | _ | \$ 1,032,031.42 | | - | | | |
| SUBTOTAL | _ | \$ - | _ | \$ | \$ - | - | | | |
| Total MISO ASM CHARGES | 255,721 | \$ 5,504,622.90 | 255,721 | \$ 5,884,824.40 | \$ - | \$ (380,201.50) | | | |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

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|------|----|----|----|

| December 2022 | NET INVOICE | | RET | AIL | INTERSYSTEM | - ASSET BASED | INTERSYSTEM - NON-ASSET BAS | | | |
|--|-------------|--------------------|-----------|--------------------|-------------|-------------------|-----------------------------|----------|--|--|
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | | |
| Procurement Charges | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - : | \$ (249,550.24) | - | \$ 287,146.11 | \$ - | \$ (536,696.35 |) | | | |
| 2 Day-Ahead Spinning Reserve Amount | - : | \$ (257,324.17) | - | \$ 1,015,675.83 | \$ | \$ (1,273,000.00) | | | | |
| 3 Day-Ahead Supplemental Reserve | - : | \$ (99,883.02) | - | \$ (3,025.52) | \$ | \$ (96,857.50) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | - | \$ (272,405.85) | - | \$ 705,880.43 | \$ | \$ (978,286.28) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | - : | \$ (576,602.84) | - | \$ (576,602.84) | \$ | \$ | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - : | \$ (1,379,113.30) | - | \$ (1,379,113.30) | \$ | \$ - | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - ! | \$ 135,299.24 | - | \$ 135,299.24 | \$ - | \$ - | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - | \$ (629,124.22) | - | \$ (629,124.22) | \$ | - | | | | |
| Resource Energy Charges | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (1,447) | \$ (10,754.75) | (1,447) | \$ (10,754.75) | \$ - | \$ - | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | (217,245) | \$ (10,707,366.47) | (217,245) | \$ (10,707,366.47) | \$ - | \$ - | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - : | \$ 39,991.15 | - | \$ (10,942.90) | \$ - | \$ 50,934.05 | | | | |
| Cost Distribution Charges | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - 1 | \$ 171,280.59 | - | \$ 171,280.59 | \$ - | \$ - | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | - ! | \$ 183,323.99 | - | \$ 183,323.99 | \$ - | \$ - | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - ! | \$ (9,191.33) | - | \$ (9,191.33) | \$ - | \$ - | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | - | \$ 657,892.39 | - | \$ 657,892.39 | \$ | \$ - | | | | |
| Penalty Charges | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | - | \$ 284,716.90 | - | \$ 236,527.62 | \$ | \$ 48,189.28 | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | - | \$ 83,197.61 | - | \$ 59,086.06 | \$ - | \$ 24,111.55 | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | - | \$ 2,440.50 | - | \$ | \$ - | \$ 2,440.50 | | | | |
| MISO ASM CHARGES | (218,692) | - | (218,692) | \$ (9,874,009.07) | \$ - | \$ (2,759,164.75 | | | | |
| x Net Congestion Amount | | \$ (1,132,268.97) | | \$ (1,132,268.97) | | - | | | | |
| v Net Loss Amount | - | \$ 101,965.16 | - | \$ 101,965.16 | | - | | | | |
| z Net Congestion and Loss Energy Offset | - | \$ 1,030,303.81 | - | \$ 1,030,303.81 | | - | | | | |
| SUBTOTAL | - 1: | \$ - | - | \$ - | \$ | - | | | | |
| Total MISO ASM CHARGES | (218,692) | \$ (12,633,173.82) | (218,692) | \$ (9,874,009.07) | \$ - | \$ (2,759,164.75) | | | | |

x No longer reported in 7b, 8b

y No longer reported in 7c, 8c

No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295

True-up Report

Part B, Attachment 9

| | | | | | | | | Page 13 of 1 |
|--|--------------|----------------|-----------|-------------------|-------------|-------------------|-------------|-------------------|
| January - December 2022 | NET INV | DICE | RET | AIL | INTERSYSTEM | - ASSET BASED | INTERSYSTEM | - NON-ASSET BASEI |
| Posting Account Description | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost | MWh | Net Cost |
| Procurement Charges | | | | | | | | |
| 1 Day-Ahead Regulation Amount | - \$ | (2,734,110.97) | - | \$ (380,926.95) | \$ - | \$ (2,353,184.02) | | |
| 2 Day-Ahead Spinning Reserve Amount | - \$ | (2,768,401.62) | - | \$ 815,086.52 | \$ - | \$ (3,583,488.14) | | |
| 3 Day-Ahead Supplemental Reserve | - \$ | (473,671.62) | - | \$ (224,356.72) | \$ - | \$ (249,314.90) | | |
| 4 Day-Ahead Short Term Reserve Amount | - \$ | (895,373.37) | - | \$ 775,050.73 | \$ - | \$ (1,670,424.10) | | |
| 5 Real-Time Regulation Amount (See Note 1) | - \$ | (1,710,242.13) | - | \$ (1,710,242.13) | \$ - | \$ | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | - \$ | (2,291,669.03) | - | \$ (2,291,669.03) | \$ - | \$ | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | - \$ | 340,567.63 | - | \$ 340,567.63 | \$ - | \$ - | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | - \$ | (682,558.16) | - | \$ (682,558.16) | \$ - | \$ - | | |
| Resource Energy Charges | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (35,901) \$ | 327,104.84 | (35,901) | \$ 327,104.84 | \$ - | \$ - | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 1,789,410 \$ | 48,243,873.90 | 1,789,410 | \$ 48,243,873.90 | \$ - | \$ - | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | - \$ | (1,791,750.46) | - | \$ (1,906,202.70) | \$ - | \$ 114,452.24 | | |
| Cost Distribution Charges | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | - \$ | 2,093,995.60 | - | \$ 2,093,995.60 | \$ - | \$ - | | |
| 11 Real Time Spinning Reserve Cost Distribution | - \$ | 1,888,162.75 | - | \$ 1,888,162.75 | \$ - | \$ - | | |
| 12 Real Time Supplemental Reserve Cost Distribution | - \$ | 344,881.17 | - | \$ 344,881.17 | \$ - | \$ - | | |
| 13 Real Time Short Term Reserve Cost Distribution | - \$ | 1,317,411.23 | - | \$ 1,317,411.23 | \$ - | \$ - | | |
| Penalty Charges | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | - \$ | 939,620.54 | - | \$ 562,516.85 | \$ - | \$ 377,103.69 | | |
| 14 Real Time Contingency Reserve Deployment Failure | - \$ | 302,636.43 | - | \$ 227,454.10 | | \$ 75,182.33 | | |
| 15 Real Time Short Term Reserve Deployment Failure | - \$ | 17,628.64 | - | \$ 7,252.08 | | \$ 10,376.56 | | |
| MISO ASM CHARGES | 1,753,510 \$ | 42,468,105.37 | 1,753,510 | | | \$ (7,279,296.34) | | |
| Net Congestion Amount | - \$ | (8,909,536.88) | - | \$ (8,909,536.88) | | \$ - | | |
| Net Loss Amount | - \$ | (849,797.78) | _ | \$ (849,797.78) | | \$ - | | |
| Net Congestion and Loss Energy Offset | - \$ | 9,759,334.66 | _ | \$ 9,759,334.66 | | \$ - | | |
| SUBTOTAL | - \$ | - | - | \$ - | \$ | - | | |
| Total MISO ASM CHARGES | 1,753,510 \$ | 42,468,105.37 | 1,753,510 | \$ 49,747,401.71 | \$ - | \$ (7,279,296.34) | | |

x No longer reported in 7b, 8b

y No longer reported in 7c, 8c

z No longer used to offset the MISO billed energy amount in 7a, 8a

Northern States Power Company Electric Operations - State of Minnesota MISO DAY 2 MARKET SETTLEMENT BY CATEGORIES - DETAIL

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 10 Page 1 of 13

| January 2022 | NET IN | VOICE | | RET | TAIL | | | INTERSYSTI | EM - ASSET BASEI |) | INTE | RSYSTEM - NON | -ASSET E | BASED |
|--|----------------|---------------------------|--------------|---|----------------|--------------------------------|------|------------|------------------|-----------------|------|---------------|----------|---------|
| Posting Account Description | MWb. | Net Cost | MWb | Cost | MWh | Revenue | MWh | | MWh | Revenue | | Cost | | |
| Day Ahead & Real Time Energy | MWn | Net Cost | MWn | Cost | MWn | Revenue | MWn | Cost | MWn | Revenue | MWn | Cost | MWn | Revenue |
| Ia Day Ahead Asset Energy | (1,427,993) \$ | (12,048,683.12) | 3,681,461 \$ | 152,643,358.52 | (6,573,225) \$ | (112,486,182.92) | | | 1,463,772 \$ | (52,205,858.72) | | | | |
| ia Day Ahead Non Asset Energy | (108,457) \$ | (3,461,887.80) | 51 \$ | 1,474.08 | (108,508) \$ | (3,463,361.88) | | | .,, | (-,,) | - | \$ 0.11 | - | \$ (0 |
| 13a Real Time Asset Energy | (42,506) \$ | (1,824,038.66) | 40,526 \$ | 1,641,851.81 | (228,066) \$ | 131,268.29 | | | 145,034 \$ | (3,597,158.76) | | | | |
| 22a Real Time Non Asset Energy | (434) \$ | (27,549.82) | 1 \$ | 33.89 | (435) \$ | (27,583.71) | | | | | | 8 - | - | \$ |
| SUBTOTAL | (1,579,390) \$ | (17,362,159.40) | 3,722,039 \$ | 154,286,718.30 | (6,910,235) \$ | (115,845,860.22) | - \$ | - | 1,608,806 \$ | (55,803,017.48) | - | \$ 0.11 | 1 | \$ (0. |
| Day Ahead & Real Time Energy Loss | | | | | | | | | | | | | | |
| 1c Day Ahead Loss | | | | | | | | | | | | | | |
| 5c Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| 3 Day Ahead Financial Bilateral Transaction Loss | Ş | (128,510.23) | \$ | 7,951.04 | Ş | (136,461.27) | | | | | | | | |
| 13c Real Time Loss | | | | | | | | | | | | | | |
| 22c Real Time Non Asset Loss 14 Real Time Distribution Losses | | (2,111,968.97) | | | 0 | (2,111,968.97) | | | | | | | | |
| 14 Real Time Distribution Losses 16 Real Time Financial Bilateral Loss | 3 | (2,111,968.97) | 3 | - | 3 | (2,111,968.97) | | | | | | | | |
| SUBTOTAL | 9 | (2.240.479.20) | s | 7.951.04 | \$ | (2.248.430.24) | s | | s | _ | | | | \$ |
| Virtual Energy | ş | (2,240,477.20) | ş | 7,231.04 | ý | (2,240,430.24) | ą | | Ŷ | - | | , . | | ş |
| 12 Day Ahead Virtual Energy | | | | | | | | | | | | | | |
| 27 Real Time Virtual Energy | | | | | | | | | | | | | | |
| SUBTOTAL | - S | - | - S | - | - S | - | - S | - | - S | - | - | ŝ - | - | \$ |
| Schedules 16, 17 & 24 | | | | | | | | | | | | | | |
| 4 Day Ahead Market Administration (Schedule 17) | S | 711,062.64 | \$ | 594,248.62 | \$ | - | S | 116,814.02 | | | | \$ (0.05) | | |
| 19 Real Time Market Administration (Schedule 17) | s | 85,287.01 | \$ | 73,906.66 | \$ | - | \$ | 11,380.35 | | | | ş - ´ | | |
| 29 Financial Transmission Rights Administration (Schedule 16) | s | 37,165.31 | \$ | 37,165.31 | \$ | - | | | | | | s - | l | |
| 33 Day-Ahead Schedule 24 Allocation Amount | \$ | 110,058.67 | S | 92,063.28 | \$ | - | \$ | 17,995.39 | | | | \$ - | l | |
| 34 Real -Time Schedule 24 Allocation Amount | s | (97,747.55) | \$ | 3,675.95 | \$ | = | | | \$ | (101,423.50) | | 3 - | l | |
| 35 Schedule 24 Admin Allocation | | | | | | | | | | | | | | |
| SUBTOTAL | \$ | 845,826.08 | \$ | 801,059.82 | \$ | - | \$ | 146,189.76 | \$ | (101,423.50) | | \$ (0.05) | | \$ |
| Congestion & FTRs | | | | | | | | | | | | | | |
| 1b Day Ahead Congestion | | | | | | | | | | | | | | |
| 5b Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| 13b Real Time Congestion | | | | | | | | | | | | | | |
| 22b Real Time Non Asset Congestion | | CO 540 400 | | 400 575 00 | | (808.070.87) | | | | | | | | |
| 2 Day Ahead Financial Bilateral Transaction Congestion | Ş | (70,510.32) | Ş | 132,567.93 | Ş | (203,078.25) | | | | | | | | |
| 15 Real Time Financial Bilateral Congestion 28 Financial Transmission Rights Hourly Allocation | | (5,374,949.19) | e | 4,413,104.81 | e | (0.700.054.00) | | | | | | | | e |
| 28 Financial Transmission Rights Hourly Allocation 30 Financial Transmission Rights Monthly Allocation | 3 | (303,409.00) | 3 | 4,413,104.81 | 9 | (9,788,054.00) (303,409.00) | | | | | | - | | 5 |
| 32 Financial Transmission Rights Yearly Allocation | 3 | (1,632,060.78) | 3 | - | 3 | (1,632,060.78) | | | | | | | | 9 |
| 31 Financial Transmission Rights Transaction | , | (1,032,000.76) | ٥ | - | ٠ | (1,032,000.76) | | | | | | | | 2 |
| 36 Financial Transmission Rights Full Funding Guarantee Amount | e | 1,658,342.83 | e | 1,658,342.83 | 9 | | | | | | | | | 9 |
| 37 Financial Transmission Guarantee Uplift Amount | Š | (1,508,569.95) | Š | 1,050,542.05 | Š | (1,508,569.95) | | | | | | | | , |
| 38 Financial Transmission Rights Monthly Transaction Amount | Š | (1,300,302.23) | Š | | Š | (1,300,302.23) | | | | | | | | ς . |
| SUBTOTAL | S | (7,231,156.41) | s | 6,204,015.57 | s | (13,435,171.98) | S | _ | S | - | | 3 - | | s . |
| RSG & Make Whole Payments | * | (1,001,100111) | | 0,20 1,010101 | * | (10,100,1110) | * | | 7 | | | | | 7 |
| 10 Day Ahead Revenue Sufficiency Guarantee Distribution | \$ | 126,443.72 | S | 126,443.72 | | | S | - | | | | | | |
| 11 Day Ahead Revenue Sufficiency Make Whole Payment | s | (150,157.83) | | | s | (74,804.17) | | | s | (75,353.66) | | | | |
| 24 Real Time Revenue Sufficiency Guarantee First Pass Distribution | s | 600,163.19 | \$ | 600,163.19 | | | \$ | - | - | ` ' | | | | |
| 25 Real Time Revenue Sufficiency Guarantee Make Whole Payment | \$ | (601,631.91) | | | \$ | (380,695.69) | | | \$ | (220,936.22) | | | | |
| 43 Real Time Price Volatility Make Whole Payment | \$ | (118,371.51) | Ş | - | | (\$89,484.26) | | | \$ | (28,887.25) | | | | |
| SUBTOTAL | \$ | (143,554.34) | \$ | 726,606.91 | \$ | (544,984.12) | \$ | | \$ | (325,177.13) | | ş - | | \$ |
| Other Charges | | | | | | | | | | | | | | |
| 20 Real Time Miscellaneous | S | 203,470.82 | \$ | 404,763.88 | \$ | (114,745.40) | | | \$ | (86,547.66) | | § 41.75 | | |
| 21 Real Time Net Inadvertent Distribution | ş | (50,816.62) | \$ | 93,418.93 | \$ | (144,235.55) | | | | | | \$ 150.67 | | \$ (132 |
| 23 Real Time Revenue Neutrality Uplift Amount | ş | 501,103.70 | \$ | 1,182,675.29 | \$ | (681,571.59) | ş | - | | | | | | |
| 26 Real Time Uninstructed Deviation Amount | | | | | | | | | | | | | | |
| SUBTOTAL | \$ | 653,757.90 | \$ | 1,680,858.10 | \$ | (940,552.54) | \$ | - | \$ | (86,547.66) | | \$ 192.42 | | \$ (132 |
| Auction Revenue Rights (ARR) | | / 100 E// A- | - | / F + / * * * * * * * * * * * * * * * * * * | - | (404.000 | | | | | | | | |
| 39 Auction Revenue Rights - FTR Auction Transactions | \$ | 6,409,766.32 | \$ | 6,546,688.64 | \$ | (136,922.32) | | | | (20.147.17) | | | | |
| 40 Auction Revenue Rights - Monthly ARR Revenue | \$ | (6,456,472.05) | \$ | 127,673.70 | S o | (6,563,999.28) | | | \$ | (20,146.47) | | | l | |
| 41 Auction Revenue Rights - ARR Stage 2 Distribution 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | (235,898.25) 76,750.07 | \$ | 76,750.07 | \$ | (235,898.25) | | | | | | | | |
| Auction Revenue Rights - Monthly Inteasible ARR Revenue SUBTOTAL | 3 | (205,853.91) | \$ | 6,751,112.41 | 3 | (6,936,819.85) | e | | S | (20,146.47) | - | | | e |
| Grandfathered Charge Types | 3 | (200,000.91) | 3 | 0,/31,112.41 | 3 | (0,230,019.83) | 3 | | ş | (20,140.47) | | - | | q |
| Day Ahead Congestion Rebate on Carve Out-Grandfathered | 9 | (101,126.93) | 8 | 280.37 | 8 | (101,407.30) | | | | | | | | |
| Day Ahead Loss Rebate on Carve Out-Grandfathered | s | (9,476.71) | s | 225.38 | s | (9,702.09) | | | | | | | | |
| Day Ahead Congestion Rebate on Option B-Grandfathered | | (-,) | | | * | (-,) | | | | | | | | |
| Day Ahead Loss Rebate on Option B-Grandfathered | | l | | | | | | | | | | | | |
| 7 Real Time Loss Rebate on Carve Out Grandfathered | | | | | | | | | | | | | | |
| 8 Real Time Congestion Rebate on Carve Out Grandfathered | | l | | | | | | | | | | | | |
| SUBTOTAL | - S | (110,603.64) | - S | 505.75 | - S | (111,109.39) | - S | - | - \$ | - | - | š - | - | \$ |
| MISO Day 2 Charges | (1,579,390) \$ | (25,794,222.92) | 3,722,039 \$ | 170,458,827.90 | (6,910,235) \$ | (140,062,928.34) | - \$ | 146,189.76 | 1,608,806 \$ | (56,336,312.24) | | \$ 192.48 | - | \$ (13 |
| Net Congestion Amount | S | 26,255,239.14 | \$ | 26,255,239.14 | | | S | - | | | | | | |
| Net Loss Amount | s | 7,675,436.77 | \$ | 7,675,436.77 | | | ş | - | | | | | | |
| z Net Congestion and Loss Energy Offset | \$ | (33,930,675.91) | \$ | (33,930,675.91) | | | | | | | | | | |
| SUBTOTAL | - \$ | - 1 | - S | - 1 | - S | - | - \$ | | - \$ | | - | | | \$ |
| Total MISO Day 2 Charges | (1,579,390) \$ | (25,794,222.92) | 3,722,039 \$ | 170,458,827.90 | (6,910,235) \$ | (140,062,928.34) | - \$ | 146,189.76 | 1,608,806 \$ | (56,336,312.24) | | \$ 192.48 | | \$ (132 |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

Part B, Attachment 10 Page 2 of 13

| February 2022 | NET IN | VOICE | | RE | TAIL | | | INTERSYST | EM - ASSET BASE | ED | INTERS | SYSTEM - NO | I-ASSET I | BASED |
|--|----------------|--------------------------------|--------------|--------------------------|-------------|--------------------------------------|-----------|--------------|-----------------|---|--------|-------------|---------------|-----------------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | | MWh | Revenue | MWh | Cost | | Revenue |
| Day Ahead & Real Time Energy | 112 11 11 | rice cost | 112 W 11 | Cost | 111 1111 | Revenue | 112 11 11 | Cost | | Revenue | | Cost | 112 117 11 | revenue |
| 1a Day Ahead Asset Energy | (1,009,166) \$ | 763,947.10 | 3,253,321 \$ | 130,658,361.05 | (3,122,000) | | | | (1,140,487) \$ | (37,590,407.27) | | | | |
| 5a Day Ahead Non Asset Energy | (145,746) \$ | | 5 \$ | 180.75 | (145,751) | | | | | | - \$ | - | - | \$ - |
| 13a Real Time Asset Energy 22a Real Time Non Asset Energy | (8,714) \$ | (342,714.09) | 48,145 \$ | 1,877,712.58 | 86,135 | | | | (142,994) \$ | (3,257,929.69) | e | | | |
| SUBTOTAL | (1,163,626) \$ | (4,370,941.21) | 3,301,472 \$ | 132,536,254.38 | (3,181,616) | | | s - | (1,283,481) \$ | (40,848,336.96) | - S | - | - | 9 - |
| Day Ahead & Real Time Energy Loss | (1,103,020) 4 | (4,370,341.21) | 5,501,772 | 132,330,234.30 | (3,101,010) | (20,030,030.03) | - | ş | (1,200,401) | (40,040,000.00) | - 9 | | | ý. |
| 1c Day Ahead Loss | | | | | | | | | | | | | | |
| 5c Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| 3 Day Ahead Financial Bilateral Transaction Loss | S | (14,768.65) | \$ | 5,458.05 | | \$ (20,226.70) | | | | | | | | |
| 13c Real Time Loss 22c Real Time Non Asset Loss | | | | | | | | | | | | | | |
| 14 Real Time Distribution Losses | | (1,924,690.96) | s | | | \$ (1,924,690.96) | | | | | | | | |
| 16 Real Time Financial Bilateral Loss | , | (1,721,070.70) | * | | | (1,521,050.50) | | | | | | | | |
| SUBTOTAL | S | (1,939,459.61) | \$ | 5,458.05 | | \$ (1,944,917.66) | | S - | \$ | - | s | - | | \$ - |
| Virtual Energy | | | | | | | | | | | | | | |
| 12 Day Ahead Virtual Energy | | | | | | | | | | | | | | |
| 27 Real Time Virtual Energy SUBTOTAL | - 9 | | _ | | _ | | | _ | _ | | _ | | ļ | |
| SUBTOTAL Schedules 16, 17 & 24 | - \$ | - | - \$ | - | - | - | - | Ş - | - \$ | - | - \$ | - | - | \$ - |
| 4 Day Ahead Market Administration (Schedule 17) | | 430,348.28 | ę | 364,508.17 | | S | | \$ 65,840.11 | | | ę | | | |
| 19 Real Time Market Administration (Schedule 17) | , s | 43,748.04 | s | 36,384.48 | | , - 3 - | | \$ 7,363.56 | | | s | | 1 | |
| 29 Financial Transmission Rights Administration (Schedule 16) | Š | 19,663.25 | š | 19,663.25 |] | 3 - | | | | | š | - | 1 | |
| 33 Day-Ahead Schedule 24 Allocation Amount | S | 89,024.03 | s | 75,688.87 | | 3 - | | \$ 13,335.16 | | | \$ | - | 1 | |
| 34 Real -Time Schedule 24 Allocation Amount | S | (85,169.94) | \$ | 36,785.69 | | - | | | \$ | (121,955.63) | \$ | - | | |
| 35 Schedule 24 Admin Allocation | | | _ | | | | | | _ | | _ | | ļ | |
| SUBTOTAL Congestion & FTRs | Ş | 497,613.66 | \$ | 533,030.46 | | - | | \$ 86,538.83 | \$ | (121,955.63) | \$ | - | | \$ - |
| 1b Day Ahead Congestion | | | | | | | | | | | | | | |
| 5b Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| 13b Real Time Congestion | | | | | | | | | | | | | | 4 |
| 22b Real Time Non Asset Congestion | | | | | | | | | | | | | | |
| 2 Day Ahead Financial Bilateral Transaction Congestion | S | 39,930.54 | \$ | 67,592.77 | | \$ (27,662.23) | | | | | | | | |
| 15 Real Time Financial Bilateral Congestion | | | _ | | | | | | | | _ | | | _ |
| 28 Financial Transmission Rights Hourly Allocation 30 Financial Transmission Rights Monthly Allocation | \$ | (757,344.86) (229,135.70) | Ş | 5,408,082.33 | | \$ (6,165,427.19) \$ (229,135.70) | | | | | Ş | - | | \$ - |
| 32 Financial Transmission Rights Yearly Allocation | 3 | (229,135.70) | \$ | | | (229,135.70) | | | | | 8 | | | \$ - |
| 31 Financial Transmission Rights Transaction | , | | Ÿ | | | * | | | | | Ÿ | | | |
| 36 Financial Transmission Rights Full Funding Guarantee Amount | s | (79,517.69) | \$ | - | | \$ (79,517.69) | | | | | | | | \$ - |
| 37 Financial Transmission Guarantee Uplift Amount | S | 76,952.41 | ş | 76,952.41 | | \$ - | | | | | ş | - | | |
| 38 Financial Transmission Rights Monthly Transaction Amount | S | - | \$ | - | | - | | | | | \$ | - | | \$ - |
| SUBTOTAL | S | (949,115.30) | \$ | 5,552,627.51 | | \$ (6,501,742.81) | | \$ - | \$ | - | \$ | = | | \$ - |
| RSG & Make Whole Payments | | 107,151.16 | | 107,151.16 | | | | e | | | | | | |
| 10 Day Ahead Revenue Sufficiency Guarantee Distribution 11 Day Ahead Revenue Sufficiency Make Whole Payment | 3 | (68,247.46) | 3 | 107,151.16 | | \$ (47,272.01) | | 5 - | 9 | (20,975.45) | | | | |
| 24 Real Time Revenue Sufficiency Guarantee First Pass Distribution | s | 156,889.00 | s | 156,889.00 | | (17,272.01) | | s - | * | (20,773.13) | | | | |
| 25 Real Time Revenue Sufficiency Guarantee Make Whole Payment | S | (315,933.84) | | | | \$ (142,287.06) | | | \$ | (173,646.78) | | | | |
| 43 Real Time Price Volatility Make Whole Payment | S | (146,032.92) | \$ | - | | (\$109,497.73) | | | \$ | (36,535.19) | | | | |
| SUBTOTAL | S | (266,174.06) | \$ | 264,040.16 | | \$ (299,056.80) | | \$ - | \$ | (231,157.42) | \$ | - | | \$ - |
| Other Charges 20 Real Time Miscellaneous | | 285,483.67 | e | 489,349.03 | | (121 505 40) | | | e | (02.250.0T) | 6 | | | |
| 20 Real Time Net Inadvertent Distribution | 3 | (17,940.82) | 3 | 489,349.03 180.207.60 | | § (121,505.49) § (198,148.42) | | | \$ | (82,359.87) | 3 | 4.42 | | \$ (9. |
| 23 Real Time Revenue Neutrality Uplift Amount | 3 | 863,316.52 | s | 1,371,390.46 | | § (508,073.94) | | s - | | | , | 4.42 | 1 | y (9. |
| 26 Real Time Uninstructed Deviation Amount | | | 1 | | | | | - | | | | | 1 | |
| SUBTOTAL | Ş | 1,130,859.37 | \$ | 2,040,947.09 | | \$ (827,727.85) | | \$ - | \$ | (82,359.87) | \$ | 4.42 | | \$ (9. |
| Auction Revenue Rights (ARR) | | | | | | | | | | | | | | _ |
| 39 Auction Revenue Rights - FTR Auction Transactions | \$ | 6,409,766.32 | \$ | 6,546,688.64 | | § (136,922.32) | | | _ | 240 OF4 : | | | 1 | |
| 40 Auction Revenue Rights - Monthly ARR Revenue 41 Auction Revenue Rights - ARR Stage 2 Distribution | S . | (6,456,472.05) (235,898.25) | \$ | 127,673.70 | | § (6,565,094.27) § (235,898.25) | | | \$ | (19,051.48) | | | 1 | |
| 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue | | 76,750,07 | \$ | 76,750,07 | | g (433,698.43) S - | | | | | | | | |
| SUBTOTAL | S | | S | 6,751,112.41 | | \$ (6,937,914.84) | | s - | S | (19,051.48) | s | - | † | S - |
| Grandfathered Charge Types | | (,) | * | .,., | | | | | 1 | , | | | | المراجع المراجع |
| 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered | Ş | (55,065.06) | \$ | 1,689.91 | | \$ (56,754.97) | | | | | | | | |
| 7 Day Ahead Loss Rebate on Carve Out-Grandfathered | S | (4,790.91) | \$ | 659.13 | | \$ (5,450.04) | | | | | | | | |
| 8 Day Ahead Congestion Rebate on Option B-Grandfathered | | | | | | | | | | | | | | |
| 9 Day Ahead Loss Rebate on Option B-Grandfathered 17 Real Time Loss Rebate on Carve Out Grandfathered | | | | | | | | | | | | | | |
| 1/ Real Time Loss Rebate on Carve Out Grandfathered 18 Real Time Congestion Rebate on Carve Out Grandfathered | | | | | | | | | | | | | | |
| SUBTOTAL | | (59,855.97) | - S | 2,349.04 | _ | \$ (62,205.01) | _ | S - | - S | | - S | | | s - |
| MISO Day 2 Charges | (1,163,626) \$ | (6,162,927.03) | 3,301,472 \$ | 147,685,819.10 | (3,181,616) | (112,632,423.60) | | \$ 86,538.83 | (1,283,481) \$ | (41,302,861.36) | - S | 4.42 | | \$ (9. |
| x Net Congestion Amount | S | 23,060,536.66 | \$ | 23,060,536.66 | | | | \$ | | | | | | |
| y Net Loss Amount | \$ | 6,702,937.45 | s | 6,702,937.45 | | | | \$ - | | | | | 1 | |
| Net Congestion and Loss Energy Offset | S | (29,763,474.11) | \$ | (29,763,474.11) | | | | | | | - 8 | | | <u> </u> |
| SUBTOTAL | - S | | - S | | - 1 | | | | | | | | | |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

| March 2022 | NET IN | VOICE | | RET | AIL | | INT | TERSYSTE | M - ASSET BASEI |) | INT | ERSYSTEM - NON | -ASSET I | BASED |
|---|--------------|-------------------------------|--------------|-------------------------------|----------------|------------------------------|---------|-----------|-----------------|----------------------------|----------|----------------|-----------|----------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh Co | | MWh | Revenue | MWh | | MWh | |
| Day Ahead & Real Time Energy | | Tier Coar | | Cost | | Revenue | MWH GO | 7.51 | | Revenue | 111 1111 | Cost | 112 11 11 | neve |
| Day Ahead Asset Energy | (688,078) \$ | 10,642,698.82 | 3,248,180 \$ | 109,560,127.02 | (2,977,155) \$ | (74,399,549.11) | | | (959,103) \$ | (24,517,879.09) | | | | |
| Day Ahead Non Asset Energy | (188,150) \$ | (5,015,717.56) | - \$ | 0.30 | (188,150) \$ | (5,015,717.86) | | | | | - | \$ - | - | \$ |
| Real Time Asset Energy | (27,224) \$ | | 49,568 \$ | 1,711,615.10 | 43,526 \$ | (830,604.26) | | | (120,318) \$ | (1,711,425.91) | | | | |
| Real Time Non Asset Energy SUBTOTAL | 505 \$ | 8,607.48 4,805,173.67 | 505 \$ | 8,607.53 111,280,349.95 | (3,121,779) \$ | (0.05) | | | (1.070.404) | (26,229,305.00) | - | \$ - | - | \$ \$ |
| Day Ahead & Real Time Energy Loss | (902,947) \$ | 4,805,175.67 | 3,298,253 \$ | 111,280,349.95 | (5,121,779) \$ | (80,245,871.28) | - \$ | - | (1,079,421) \$ | (26,229,305.00) | - | \$ - | - | 3 |
| Day Ahead Loss | | | | | | | | | | | | | | |
| Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Loss | S | 13,298.62 | s | 6,184.62 | s | 7,114.00 | | | | | | | | |
| c Real Time Loss | | | | | | | | | | | | | | |
| c Real Time Non Asset Loss | | | | | | | | | | | | | | |
| Real Time Distribution Losses | S | (1,485,293.66) | \$ | - | \$ | (1,485,293.66) | | | | | | | | |
| Real Time Financial Bilateral Loss SUBTOTAL | | (1,471,995.04) | S | 6.184.62 | | (1,478,179.66) | s | | s | | | \$ - | | |
| Virtual Energy | 3 | (1,4/1,995.04) | \$ | 6,184.62 | \$ | (1,4/8,1/9.66) | \$ | - | \$ | = | | \$ - | | \$ |
| 2 Day Ahead Virtual Energy | | | | | | | | | | | | | | |
| Real Time Virtual Energy | | | | | | | | | | | | | | |
| SUBTOTAL | - S | | - S | - | - S | - | - S | - | - S | - | - | S - | - | S |
| Schedules 16, 17 & 24 | | | | | | | | | | | | | | |
| Day Ahead Market Administration (Schedule 17) | S | 691,220.56 | \$ | 603,898.66 | \$ | - | | 87,321.90 | | | | \$ - | | |
| Real Time Market Administration (Schedule 17) | S | 66,963.90 | s | 53,953.27 | \$ | - | \$ 1 | 13,010.63 | | | | \$ - | | |
| Financial Transmission Rights Administration (Schedule 16) | ş | 25,703.40 | \$ | 25,703.40 | ş | - | | | | | | S - | | 1 |
| 3 Day-Ahead Schedule 24 Allocation Amount | S | 95,844.07 | s | 83,506.61 | S | - | \$ 1 | 12,337.46 | _ | T0 450 | | s - | | |
| Real -Time Schedule 24 Allocation Amount Schedule 24 Admin Allocation | \$ | (92,642.80) | \$ | (20,489.10) | \$ | - | | | \$ | (72,153.70) | | 5 - | | |
| Schedule 24 Admin Allocation SUBTOTAL | | 787,089.13 | e | 746,572.84 | e | | S 11 | 12,669.99 | e | (72,153.70) | | 9 | | ç |
| Congestion & FTRs | 3 | 101,009.13 | 3 | 740,372.84 | 5 | | ş II | 12,009.99 | 3 | (/2,133./0) | | 9 | | ٠ |
| Day Ahead Congestion | | | | | | | | | | | | | | |
| Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| 3b Real Time Congestion | | | | | | | | | | | | | | |
| b Real Time Non Asset Congestion | | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Congestion | S | (4,921.28) | \$ | (1,463.86) | S | (3,457.42) | | | | | | | | |
| Real Time Financial Bilateral Congestion | | | | | | | | | | | | | | |
| Financial Transmission Rights Hourly Allocation | S | (2,678,842.85) | \$ | 3,182,604.33 | \$ | (5,861,447.18) | | | | | | \$ - | | \$ |
| Financial Transmission Rights Monthly Allocation Financial Transmission Rights Yearly Allocation | S | (135,623.14) | \$ | - | \$ | (135,623.14) | | | | | | | | \$ |
| Financial Transmission Rights Transaction Financial Transmission Rights Transaction | 9 | - | 9 | - | 3 | - | | | | | | ş - | | 3 |
| 6 Financial Transmission Rights Full Funding Guarantee Amount | | 110,840.68 | s | 110,840.68 | \$ | | | | | | | | | s |
| Financial Transmission Guarantee Uplift Amount | Š | (124,687.92) | š | - 110,010.00 | Š | (124,687.92) | | | | | | s - | | |
| 8 Financial Transmission Rights Monthly Transaction Amount | s | (-= 1,00010=) | s | _ | s | (, | | | | | | s - | | s |
| SUBTOTAL | S | (2,833,234.51) | \$ | 3,291,981.15 | S | (6,125,215.66) | S | - | \$ | - | | \$ - | | \$ |
| RSG & Make Whole Payments | | | | , | | | | | | | | | | |
| Day Ahead Revenue Sufficiency Guarantee Distribution | S | 105,689.24 | \$ | 105,689.24 | | | \$ | - | | | | | | |
| Day Ahead Revenue Sufficiency Make Whole Payment | S | (105,604.28) | | | \$ | (40,919.92) | | | \$ | (64,684.36) | | | | |
| 4 Real Time Revenue Sufficiency Guarantee First Pass Distribution | ş | 120,827.58 | \$ | 120,827.58 | | | \$ | - | | WE 245 OF | | | | |
| 5 Real Time Revenue Sufficiency Guarantee Make Whole Payment 3 Real Time Price Volatility Make Whole Payment | 3 | (58,819.54) (99,059.44) | | | 5 | (21,083.67) (\$63,327.83) | | | \$ | (37,735.87) (35,731.61) | | | | |
| SUBTOTAL | 3 | (36,966.44) | 3 | 226,516.82 | e e | (125,331.42) | ę | | 3 | (138.151.84) | | 9 | | e |
| Other Charges | 4 | (50,700.44) | ş | 220,310.02 | ş | (123,331.42) | Ŷ | | ş | (130,131.04) | | , | | Ÿ |
| Real Time Miscellaneous | S | 154,633.85 | S | 356,911.06 | S | (119,917.34) | | | S | (82,359.87) | | S - | | |
| Real Time Net Inadvertent Distribution | s | (15,018.40) | s | 46,239.23 | s | (61,257.63) | | | * | (,) | | \$ 2.98 | | \$ |
| Real Time Revenue Neutrality Uplift Amount | s | 1,002,811.60 | s | 1,411,840.21 | s | (409,028.61) | ş | - | | | | | | |
| Real Time Uninstructed Deviation Amount | | | | | | | | | | | | | | |
| SUBTOTAL | Ş | 1,142,427.05 | \$ | 1,814,990.50 | \$ | (590,203.58) | \$ | - | \$ | (82,359.87) | | \$ 2.98 | | \$ |
| Auction Revenue Rights (ARR) | | | | | | | | | | | | | | |
| Auction Revenue Rights - FTR Auction Transactions | S | 4,769,796.97 | s | 4,906,441.23 | \$ | (136,644.26) | | | | | | | | |
| Auction Revenue Rights - Monthly ARR Revenue Auction Revenue Rights - ARR Stage 2 Distribution | \$ | (4,790,198.14) | \$ | 135,433.04 | \$ | (4,896,280.46) | | | \$ | (29,350.72) | | | | |
| Auction Revenue Rights - ARR Stage 2 Distribution ! Auction Revenue Rights - Monthly Infeasible ARR Revenue | 3 | (176,339.19) 168.443.44 | \$ | 168.443.44 | \$ | (176,339.19) | | | | | | | | |
| Auction Revenue Rights - Monthly Inteasible ARR Revenue SUBTOTAL | 3 | (28,296.92) | S S | 5,210,317.71 | 5 | (5,209,263.91) | 9 | | ę | (29,350.72) | | S - | 1 | s |
| Grandfathered Charge Types | | (20,270.92) | ş | J,210,J17./1 | ş | (3,203,203,21) | * | | ş | (27,330.72) | | - | | ą |
| Day Ahead Congestion Rebate on Carve Out-Grandfathered | S | 9,402.76 | S | 12,008.04 | S | (2,605.28) | | | | | | | | |
| Day Ahead Loss Rebate on Carve Out-Grandfathered | s | (5,765.73) | s | 419.73 | s | (6,185.46) | | | | | | | | |
| Day Ahead Congestion Rebate on Option B-Grandfathered | | 1 | | | | | | | | | | | | |
| Day Ahead Loss Rebate on Option B-Grandfathered | | l | | l | | | | | | | | | | |
| Real Time Loss Rebate on Carve Out Grandfathered | | l | | l | | | | | | | | | | |
| Real Time Congestion Rebate on Carve Out Grandfathered | | | | | | | _ | | | | | | | |
| SUBTOTAL | - \$ | | - \$ | 12,427.77 | - \$ | (8,790.74) | - \$ | - | - \$ | - | | ş - | | \$ |
| MISO Day 2 Charges | (902,947) \$ | 2,367,833.97 | 3,298,253 \$ | 122,589,341.36 | (3,121,779) \$ | (93,782,856.25) | - \$ 11 | 12,669.99 | (1,079,421) \$ | (26,551,321.13) | | \$ 2.98 | | \$ |
| Net Congestion Amount Net Loss Amount | 3 | 18,551,625.54 5,559,815.11 | \$ | 18,551,625.54 5,559,815.11 | | | 3 | - | | | | | | |
| Net Loss Amount Net Congestion and Loss Energy Offset | 3 | 5,559,815.11 (24,111,440.65) | 3 | 5,559,815.11 (24,111,440.65) | | | à | - | | | | | | |
| SUBTOTAL | - S | | - S | (24,111,440.03) | . 8 | _ | - S | | . 8 | _ | - | S - | - | S |
| Total MISO Day 2 Charges | (902,947) S | | 3 298 253 S | 122.589.341.36 | (3,121,779) \$ | (93,782,856.25) | - S 11 | 12 669 99 | (1,079,421) \$ | (26.551.321.13) | | \$ 2.98 | | Ś |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 10

| April 2022 | NET IN | VOICE | - | RET | TAIL | | | INTERSYST | EM - ASSET BASE | D | INT | ERSYSTEM - NO | N-ASSET | BASED |
|---|--------------|----------------------------|--------------|-----------------------------|------------------|------------------|--|----------------|-----------------|-----------------|-----|---------------|---|--------------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | | MWh | Revenue | MWh | | | Revenue |
| Day Ahead & Real Time Energy | MWn | Net Cost | MWn | Cost | MWn | Revenue | MWn | Cost | MWn | Revenue | MWn | Cost | MWn | Revenue |
| 1a Day Ahead Asset Energy | (781,196) \$ | 26,840,353.89 | 3,052,319 \$ | 136,052,197.73 | (2,929,466) \$ | (84,160,135.95) | | | (904,049) \$ | (25,051,707.89) | | | _ | |
| 5a Day Ahead Non Asset Energy | (185,607) \$ | (6,709,923.85) | 14 \$ | 892.20 | (185,621) \$ | (6,710,816.05) | | | (,, | (-, , , | - | s - | - | s - |
| 13a Real Time Asset Energy | 22,665 \$ | 1,592,492.64 | 76,689 \$ | 3,539,682.54 | 41,794 \$ | 628,001.50 | | | (95,817) \$ | (2,575,191.40) | | | | |
| 22a Real Time Non Asset Energy | - S | - | - \$ | - | - S | - | | | | | - | S - | - | \$ - |
| SUBTOTAL | (944,138) \$ | 21,722,922.68 | 3,129,022 \$ | 139,592,772.47 | (3,073,294) \$ | (90,242,950.50) | - | \$ - | (999,866) \$ | (27,626,899.29) | - | \$ - | خــــــــــــــــــــــــــــــــــــــ | \$ - |
| Day Ahead & Real Time Energy Loss 1c Day Ahead Loss | | | | | | | | | | | | | | |
| 5c Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| 3 Day Ahead Financial Bilateral Transaction Loss | s | 325.29 | s | 1,951.73 | s | (1,626.44) | | | | | | | | |
| 13c Real Time Loss | i i | | | | | | | | | | | | | |
| 22c Real Time Non Asset Loss | | | | | | | | | | | | | | |
| 14 Real Time Distribution Losses | \$ | (2,116,472.45) | \$ | - | \$ | (2,116,472.45) | | | | | | | | |
| 16 Real Time Financial Bilateral Loss | | | | 4 054 50 | | M 440 000 000 | | | | | | | + | |
| SUBTOTAL Virtual Energy | \$ | (2,116,147.16) | \$ | 1,951.73 | \$ | (2,118,098.89) | | \$ - | \$ | | | \$ - | | \$ - |
| 12 Day Ahead Virtual Energy | | | | | | | | | | | | | _ | |
| 27 Real Time Virtual Energy | | | | | | | | | | | | | | |
| SUBTOTAL | - S | - | - S | - | - S | - | - | s - | - \$ | - | - | S - | - | \$ - |
| Schedules 16, 17 & 24 | | | | | | | | | | | | | | |
| 4 Day Ahead Market Administration (Schedule 17) | \$ | 647,141.10 | \$ | 564,443.85 | \$ | - | | \$ 82,697.25 | | | | S - | | |
| 19 Real Time Market Administration (Schedule 17) | \$ | 70,334.10 | \$ | 61,610.62 | \$ | - | 1 | \$ 8,723.48 | | | | S - | 1 | |
| 29 Financial Transmission Rights Administration (Schedule 16) 33 Day-Ahead Schedule 24 Allocation Amount | \$ | 32,244.43 | \$ | 32,244.43 | \$ | - | l | \$ 12,839,16 | | | | \$ - | | |
| | \$ | 100,317.77 | \$ | 87,478.61 14,423.92 | \$ | - | | \$ 12,839.16 | | (112,192.82) | | \$ - | | |
| 34 Real -Time Schedule 24 Allocation Amount 35 Schedule 24 Admin Allocation | 5 | (97,768.90) | \$ | 14,423.92 | 5 | - | l | | \$ | (112,192.82) | | | | |
| SUBTOTAL | 2 | 752,268.50 | 8 | 760,201.43 | s | - | l | \$ 104,259.89 | S | (112,192.82) | | S - | + | S - |
| Congestion & FTRs | * | 102,200100 | | 700,201710 | 7 | | | 4 10 1,440 100 | * | (***,******) | | • | | * |
| 1b Day Ahead Congestion | | | | | | | | | | | | | | |
| 5b Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| 13b Real Time Congestion | | | | | | | | | | | | | | |
| 22b Real Time Non Asset Congestion | | (5.495.40) | | 24 720 07 | | WT 4 / / T / | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Congestion Real Time Financial Bilateral Congestion | ş | (5,627.69) | ş | 21,739.07 | \$ | (27,366.76) | | | | | | | | |
| 28 Financial Transmission Rights Hourly Allocation | s | 5,796.07 | e | 9,924,677.60 | 9 | (9,918,881.53) | | | | | | 9 | | 9 |
| 30 Financial Transmission Rights Monthly Allocation | Š | (129,503.20) | š | | s | (129,503.20) | | | | | | * | | s - |
| 32 Financial Transmission Rights Yearly Allocation | s | - | s | - | s | - | | | | | | s - | | \$ - |
| 31 Financial Transmission Rights Transaction | | | | | | | | | | | | | | |
| 36 Financial Transmission Rights Full Funding Guarantee Amount | \$ | 20,634.65 | \$ | 20,634.65 | \$ | - | | | | | | | | \$ - |
| 37 Financial Transmission Guarantee Uplift Amount | \$ | (30,412.30) | Ş | - | \$ | (30,412.30) | | | | | | \$ - | | |
| 38 Financial Transmission Rights Monthly Transaction Amount SUBTOTAL | \$ | (139,112.47) | \$ | 9,967,051.32 | S S | (10.106.163.79) | | s . | \$ | | | \$ - | + | \$ - \$ - |
| RSG & Make Whole Payments | \$ | (139,112.47) | \$ | 9,967,051.32 | 2 | (10,106,163.79) | | 5 - | \$ | - | | \$ - | _ | \$ - |
| 10 Day Ahead Revenue Sufficiency Guarantee Distribution | 9 | 101,849.92 | \$ | 101,849.92 | | | | \$. | | | | | 4 | |
| 11 Day Ahead Revenue Sufficiency Make Whole Payment | Š | (334,089.26) | Ÿ | 101,015.52 | s | (151,257.18) | | Ÿ | s | (182,832.08) | | | | |
| 24 Real Time Revenue Sufficiency Guarantee First Pass Distribution | s | 198,664.47 | \$ | 198,664.47 | | | | S - | | | | | | |
| 25 Real Time Revenue Sufficiency Guarantee Make Whole Payment | \$ | (195,535.12) | | | \$ | (139,857.28) | | | \$ | (55,677.84) | | | | |
| 43 Real Time Price Volatility Make Whole Payment | \$ | (54,611.32) | \$ | - | | (\$49,898.04) | | | \$ | (4,713.28) | | | | |
| SUBTOTAL | \$ | (283,721.31) | \$ | 300,514.39 | \$ | (341,012.50) | | \$ - | \$ | (243,223.20) | | \$ - | | \$ - |
| Other Charges | | 326,582.75 | | 529,260.63 | | (447 507 45) | | | ^ | (0F 4F4 50) | | e | _ | |
| 20 Real Time Miscellaneous 21 Real Time Net Inadvertent Distribution | Ş | 326,582.75 123,517.35 | \$ | 529,260.63 623,216.54 | \$ | (117,526.15) | l | | \$ | (85,151.73) | | ş - | | \$ |
| 23 Real Time Revenue Neutrality Uplift Amount | 3 | 2,626,802.92 | 8 | 3,318,356.02 | 3 | (691,553.10) | 1 | s - | | | | - | 1 | * |
| 26 Real Time Uninstructed Deviation Amount | , | _,,/2 | [* | 0,010,000.02 | ľ | (071,000.10) | 1 | | | | | | 1 | |
| SUBTOTAL | s | 3,076,903.02 | \$ | 4,470,833.19 | \$ | (1,308,778.44) | | s - | \$ | (85,151.73) | | S - | | ş - |
| Auction Revenue Rights (ARR) | | | | | | | | | | | | | | |
| 39 Auction Revenue Rights - FTR Auction Transactions | S | 4,769,796.97 | \$ | 4,906,441.23 | \$ | (136,644.26) | 1 | | | | | | | |
| 40 Auction Revenue Rights - Monthly ARR Revenue | \$ | (4,790,198.14) | \$ | 135,433.04 | \$ | (4,895,217.58) | 1 | | \$ | (30,413.60) | | | 1 | |
| 41 Auction Revenue Rights - ARR Stage 2 Distribution 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | (176,339.19) 168,443.44 | ş | 168,443.44 | S | (176,339.19) | l | | | | | | | |
| 42 Auction Revenue Rights - Monthly Inteasible ARR Revenue SUBTOTAL | \$ | (28,296.92) | 5 | 5,210,317.71 | 5 | (5,208,201.03) | l | s | e | (30,413.60) | | 9 | + | s |
| Grandfathered Charge Types | 3 | (20,270.92) | ş | J,610,J17./1 | ş | (0,2002(1.03) | | ¥ - | ş | (50,715.00) | | - | سحط | Υ - |
| 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered | s | 5,627.69 | S | 27,366.76 | S | (21,739.07) | | | | | | | T | |
| 7 Day Ahead Loss Rebate on Carve Out-Grandfathered | s | (325.29) | s | 1,626.44 | \$ | (1,951.73) | l | | | | | | | |
| 8 Day Ahead Congestion Rebate on Option B-Grandfathered | | 1 | | | | | l | | | | | | | |
| 9 Day Ahead Loss Rebate on Option B-Grandfathered | | | | | | | l | | | | | | | |
| 17 Real Time Loss Rebate on Carve Out Grandfathered | | l | | | | | 1 | | | | | | 1 | |
| 18 Real Time Congestion Rebate on Carve Out Grandfathered SUBTOTAL | - S | 5,302.40 | | 28,993.20 | | (23,690.80) | | e | | | | e | + | e |
| SUBTOTAL MISO Day 2 Charges | (944,138) \$ | 5,302.40 22,990,118.74 | 3 129 022 S | 28,993.20 160,332,635.44 | (3.073.294) - \$ | (23,690.80) | | \$ 104 259 89 | (999,866) \$ | (28,097,880.64) | | ş - | ضياء | ş - |
| x Net Congestion Amount | (244,130) \$ | 32,510,349.21 | 3,127,022 3 | 32,510,349.21 | (3,073,274) \$ | (107,740,073.73) | | S - 104,257.07 | (777,000) \$ | (20,077,000.04) | | · - | _ | * |
| v Net Loss Amount | s | 8,791,080.42 | s | 8,791,080.42 | | | 1 | s - | | | | | 1 | |
| z Net Congestion and Loss Energy Offset | š | (41,301,429.63) | s | (41,301,429.63) | | | 1 | - | | | | | 1 | |
| SUBTOTAL | - S | - | - S | - 1 | - S | - | | \$ - | - \$ | - | - | \$ - | | \$ - |
| Total MISO Day 2 Charges | (944,138) S | 22 990 118 74 | 3,129,022 \$ | 160,332,635.44 | (3,073,294) \$ | (109 348 895 95) | | \$ 104 259 89 | (999,866) \$ | (28 097 880 64) | | | | |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

| May 2022 | NET IN | VOICE | - | RET | TAIL | | INTERS | SYSTEM - ASSET BASE | D | INT | ERSYSTEM - NON | I-ASSET I | BASED |
|---|--------------------------|---|----------------------|---|----------------------------|---|---------------------|---------------------------|-----------------|--------|----------------|-----------|-------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh Cost | MWh | Revenue | MWh | | | Reven |
| Day Ahead & Real Time Energy | MWII | Net Cost | MWII | Cost | MWII | Kevenue | WWII Cost | IVI W II | Revenue | M W II | Cost | WWII | Keven |
| a Day Ahead Asset Energy | (421,339) \$ | 35,132,387.35 | 3,134,513 \$ | 165,981,034.56 | (2,867,636) \$ | (109,320,247.92) | | (688,216) \$ | (21,528,399.29) | | | | |
| a Day Ahead Non Asset Energy | (272,362) \$ | (14,244,691.53) | 20 \$ | 1,061.31 | (272,382) \$ | (14,245,752.84) | | | | - | S - | - | \$ |
| 3a Real Time Asset Energy | (13,683) \$ | (927,784.30) | 60,705 \$ | 3,099,593.36 | 2,146 \$ | 323,186.29 | | (76,534) \$ | (4,350,563.95) | | _ | | _ |
| 22a Real Time Non Asset Energy SUBTOTAL | (700) \$ (708,084) \$ | (69,450.50) 19,890,461.02 | 3,195,238 \$ | 169,081,689.23 | (700) \$ (3,138,572) \$ | (69,450.50) (123,312,264.97) | - S | - (764,750) \$ | (25,878,963.24) | - | \$ - \$ - | - | \$ |
| Day Ahead & Real Time Energy Loss | (/08,084) \$ | 19,890,461.02 | 3,195,238 \$ | 109,081,089.23 | (3,138,572) \$ | (123,312,204.97) | - 3 | - (/64,/50) \$ | (25,878,903.24) | - | 5 - | - | ş |
| c Day Ahead Loss | | | | | | | | | | | | | |
| ic Day Ahead Non Asset Loss | | | | | | | | | | | | | |
| B Day Ahead Financial Bilateral Transaction Loss | ş | (10.00) | \$ | 4,418.07 | ş | (4,428.07) | | | | | | | |
| 13c Real Time Loss 22c Real Time Non Asset Loss | | | | | | | | | | | | | |
| 22c Real Time Non Asset Loss 4 Real Time Distribution Losses | 9 | (1,334,309.42) | 9 | | 9 | (1,334,309.42) | | | | | | | |
| 16 Real Time Financial Bilateral Loss | , | (1,334,303.42) | 9 | - | , | (1,334,303.42) | | | | | | | |
| SUBTOTAL | S | (1,334,319.42) | \$ | 4,418.07 | \$ | (1,338,737.49) | ş | - \$ | - | | S - | | \$ |
| Virtual Energy | | | | | | | | | | | | | |
| 2 Day Ahead Virtual Energy | | | | | | | | | | | | | |
| Real Time Virtual Energy SUBTOTAL | | | e | | | | - S | S | | | e | 1 | e |
| Schedules 16, 17 & 24 | - Ş | - | - \$ | - | - 3 | - | - 3 | 3 | - | - | \$ - | - | \$ |
| Day Ahead Market Administration (Schedule 17) | S | 567,420.78 | S | 510,875.46 | S | - | \$ 56,54 | 5.32 | | | \$ | | |
| 9 Real Time Market Administration (Schedule 17) | ş | 64,083.55 | \$ | 58,002.77 | s | - | \$ 6,08 | | | | \$ - | 1 | l |
| 9 Financial Transmission Rights Administration (Schedule 16) | s | 27,875.77 | \$ | 27,875.77 | S | - | | | | | S - | | |
| 3 Day-Ahead Schedule 24 Allocation Amount | s | 89,822.96 | \$ | 80,870.46 | s | - | \$ 8,95 | 2.50 | | | S - | 1 | |
| 4 Real -Time Schedule 24 Allocation Amount 5 Schedule 24 Admin Allocation | Ş | (94,671.11) | \$ | 17,266.27 | ş | - | | \$ | (111,937.38) | | \$ - | | |
| 5 Schedule 24 Admin Allocation SUBTOTAL | S | 654,531.95 | S | 694,890.73 | e | | \$ 71,579 | 8.60 S | (111,937.38) | | S - | - | S |
| Congestion & FTRs | ş | 054,551.55 | ş | 074,070.73 | ş | - | ş /1,5/i | 9.00 | (111,237.30) | | , | | ş |
| b Day Ahead Congestion | | | | | | | | | | | | | |
| b Day Ahead Non Asset Congestion | | | | | | | | | | | | | |
| Bb Real Time Congestion | | | | | | | | | | | | | |
| 2b Real Time Non Asset Congestion Day Ahead Financial Bilateral Transaction Congestion | | (40,521.96) | | 14,950.14 | | (55,472.10) | | | | | | | |
| Day Aricad Pinancial Bilateral Transaction Congestion Real Time Financial Bilateral Congestion | , | (40,521.96) | 3 | 14,950.14 | 3 | (55,472.10) | | | | | | | |
| Financial Transmission Rights Hourly Allocation | s | (18,578,993.25) | s | 3,339,458.49 | s | (21,918,451.74) | | | | | s - | | s |
| Financial Transmission Rights Monthly Allocation | s | (681,472.03) | s | - | s | (681,472.03) | | | | | | | \$ |
| 2 Financial Transmission Rights Yearly Allocation | \$ | - 1 | \$ | - | \$ | - 1 | | | | | \$ - | | \$ |
| 1 Financial Transmission Rights Transaction | | | | | | | | | | | | | |
| 6 Financial Transmission Rights Full Funding Guarantee Amount 7 Financial Transmission Guarantee Uplift Amount | S | (696,075.01) | \$ | - | \$ | (696,075.01) | | | | | | | \$ |
| 7 Financial Transmission Guarantee Uplift Amount 8 Financial Transmission Rights Monthly Transaction Amount | \$ | 655,956.21 | 3 | 655,956.21 | 3 | - | | | | | 5 - | | e |
| SUBTOTAL | S S | (19,341,106.04) | 3 S | 4,010,364.84 | \$ | (23,351,470.88) | S | - S | | | S - | | S |
| RSG & Make Whole Payments | | (, , , , , , , , , , , , , , , , , , , | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | (, , , , , , , , , , , , , , , , , , , | | | | | | | |
| Day Ahead Revenue Sufficiency Guarantee Distribution | \$ | 230,106.64 | Ş | 230,106.64 | | | \$ | - | | | | | |
| 1 Day Ahead Revenue Sufficiency Make Whole Payment | ş | (430,650.87) | | | \$ | (284,103.24) | | \$ | (146,547.63) | | | | |
| 4 Real Time Revenue Sufficiency Guarantee First Pass Distribution 5 Real Time Revenue Sufficiency Guarantee Make Whole Payment | Ş | 932,613.64 | ş | 932,613.64 | | (435,351.53) | ş | - s | (601,279.81) | | | | |
| Real Time Revenue Surriciency Guarantee Make Whole Payment Real Time Price Volatility Make Whole Payment | 3 | (1,036,631.34) (211,772.06) | e | | 3 | (\$177,449.92) | | 3 | (34,322,14) | | | | |
| SUBTOTAL | S | (516,333,99) | s S | 1.162.720.28 | S | (896,904,69) | S | - S | (782.149.58) | | S - | | S |
| Other Charges | Ÿ | (, | ű | , | Ÿ | (0.2.09-0.002) | * | Ť | (, | | | | |
| 0 Real Time Miscellaneous | \$ | 538,053.60 | \$ | 745,680.19 | \$ | (122,474.86) | | \$ | (85,151.73) | | \$ - | | |
| 1 Real Time Net Inadvertent Distribution | s | 2,349.43 | \$ | 123,445.23 | s | (121,095.80) | | | | | S - | | \$ |
| Real Time Revenue Neutrality Uplift Amount Real Time Uninstructed Deviation Amount | Ş | 2,547,550.42 | \$ | 3,123,064.09 | ş | (575,513.67) | ş | - | | | | | |
| 6 Real Time Uninstructed Deviation Amount SUBTOTAL | 9 | 3,087,953.45 | S | 3,992,189.51 | 9 | (819,084.33) | S | - S | (85,151.73) | | s - | 1 | s |
| Auction Revenue Rights (ARR) | ş | 5,001,733.73 | 3 | J,774,107.J1 | 3 | (012,004.33) | ą | 3 | (03,131.73) | | - | | Y |
| 9 Auction Revenue Rights - FTR Auction Transactions | ş | 4,769,796.97 | \$ | 4,906,441.23 | \$ | (136,644.26) | | | | | | | |
| O Auction Revenue Rights - Monthly ARR Revenue | \$ | (4,790,198.14) | \$ | 135,433.04 | \$ | (4,896,677.58) | | \$ | (28,953.60) | | | | |
| Auction Revenue Rights - ARR Stage 2 Distribution | s | (176,339.19) | \$ | | s | (176,339.19) | | | | | | 1 | |
| Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | 168,443.44 | \$ | 168,443.44 | \$ | /F #00 / / / | | - | /AO OFA *** | | | | e |
| SUBTOTAL Grandfathered Charge Types | \$ | (28,296.92) | \$ | 5,210,317.71 | \$ | (5,209,661.03) | \$ | - \$ | (28,953.60) | | \$ - | | ş |
| Day Ahead Congestion Rebate on Carve Out-Grandfathered | 9 | 41,169.11 | 8 | 55,472.10 | 9 | (14,302.99) | | | | | | | |
| Day Ahead Loss Rebate on Carve Out-Grandfathered | s | 438.60 | Š | 4,428.07 | s | (3,989.47) | | | | | | | |
| Day Ahead Congestion Rebate on Option B-Grandfathered | | | 1 | , | | (-,,) | | | | | | | |
| Day Ahead Loss Rebate on Option B-Grandfathered | | | | | | | | | | | | 1 | |
| Real Time Loss Rebate on Carve Out Grandfathered | | | | | | | | | | | | 1 | |
| Real Time Congestion Rebate on Carve Out Grandfathered | | 44 X08 81 | - | F0.000 := | _ | 40.000 | | - | | | | | e |
| SUBTOTAL MISO Day 2 Charges | - \$ (708,084) \$ | 41,607.71 2,454,497.76 | - \$ 3,195,238 \$ | 59,900.17 184,216,490.54 | (3,138,572) \$ | (18,292.46) (154,946,415.85) | - \$ - \$ 71,578 | - \$ 3.60 (764,750) \$ | (26,887,155.53) | - | 5 - | - | \$ |
| Net Congestion Amount | (708,084) \$ | 2,454,497.76 | 3,193,238 \$ | 30,237,240.96 | (3,138,372) \$ | (154,946,415.85) | - \$ /1,5/6 | 5.00 (764,750) \$ | (20,887,155.53) | | • | | 3 |
| Net Congestion Amount Net Loss Amount | 3 9 | 9,234,594.09 | 3 | 9,234,594.09 | | | s | | | | | | |
| Net Congestion and Loss Energy Offset | s | (39,471,835.05) | s | (39,471,835.05) | | | Ť | | | | | | |
| SUBTOTAL | - S | - | - S | - | - S | - | - S | S | - | - | S - | - | \$ |
| Total MISO Day 2 Charges | (708,084) \$ | 2.454.497.76 | 3 105 239 \$ | 184.216.490.54 | (3,138,572) \$ | (154,946,415.85) | - \$ 71.57 | 3.60 (764.750) \$ | (26.887.155.53) | _ | \$. | | 9 |

x No longer reported in 1b, 5b, 13b, 22b
 y No longer reported in 1c, 5c, 13c, 22c
 z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 10 Page 6 of 13

| Day Ahred & Red Time Energy (847,791) \$ 6,714,197.55 3,003,464 \$ 227,859,854.87 (3,355,924) \$ (159,844,395.95) (1,095,331) \$ (61,301,261.37) (280,991) \$ (16,080,197.29) 3,200 \$ 229,215.65 (283,591) \$ (16,309,428.85) (1,095,331) \$ (61,301,261.37) (280,991) \$ (16,080,197.29) 3,200 \$ 229,215.65 (283,591) \$ (16,309,428.85) (1,095,331) \$ (61,301,261.37) (1,095,331) \$ (61,301,261.37) (280,991) \$ (1,095,331) \$ (1,095, | Page 6 of 13 N-ASSET BASED | ERSYSTEM - NON- | INTE | 1 | EM - ASSET BASEI | INTERSYST | | | TAIL | RE | | WOICE | NET IN | June 2022 |
|---|-------------------------------|-----------------|-------|-----------------|---|-----------|------|------------------|----------------|---|--------------|-----------------|----------------|--|
| Decided Continue | MWh Revenue | | | | | | MWh | Revenue | | | MWh | | | ÿ |
| 20 | | | | | | - | | | | - | | | | |
| 1-10 Inching the Company 1-10 | T | | | (61,301,261.37) | (1,095,331) \$ | | | | | | | | | |
| 22 |) - \$ - | \$ 558,525.00 | 5,200 | // OAT 5/4 /40 | | | | | | | | | | |
| 10 10 10 10 10 10 10 10 | 9 | 9 | | (4,02/,561.61) | (98,026) \$ | | | /29,238./9 | 36,3/3 \$ | | | | | |
| December | 0 - S - | \$ 558,525,00 | 5,200 | (65,328,822,98) | (1.193.357) \$ | - | - S | (175,424,586,01) | (3.603.142) \$ | | | | | |
| December Company Com | | | | (,, | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | (,, | (7) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | .,, | | () | |
| Description Company | | | | | | | | | | | | | | |
| See Build See Month of the Comment See Build See See See Build See See Build See See Build See See Build See See Build See See Build | 4 | | | | | | | (11.200.02) | | (212) | | 40.655.60 | | |
| Margin Description Section Sec | | | | | | | | (11,289.92) | \$ | 624.26 | \$ | (10,665.66) | \$ | |
| For the Time Development Assess \$ 0.050,000,000 \$ 0.050,000 \$ 0. | | | | | | | | | | | | | | |
| Section | | | | | | | | (3,458,138.67) | s | - | s | (3,458,138.67) | s | |
| The Content of Proceedings The Content of Process The Content of The Content of The Content of The Content of The Content of The Content of The Content of The Content of The Content of The C | | | | | | | | | | | | | | |
| 2 Par June Visual Farage | ş - | \$ - | | - | \$ | - | \$ | (3,469,428.59) | \$ | 624.26 | \$ | (3,468,804.33) | \$ | |
| The Name Recognition | 4 | | | | | | | | | | | | | |
| STREETING | | | | | | | | | | | | | | |
| Description | - S - | S - | - | 3 | - S | - | - S | _ | - S | - | - S | - | - S | |
| Part | | | | | | | | | | | | | | |
| 29 Finerical Transmission Right Advisorations (checked 16) \$ \$84,075.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ |) | \$ 611.40 | | | | 79,986.80 | Ş | (232.96) | Ş | 527,013.50 | Ş | | Ş | |
| State Stat | | \$ - | . 1 | | | 7,004.55 | ş | = | \$ | 58,837.36 | S | | S | |
| Secolar Seco | 4 | 90.74 | . ! | | | 12 440 11 | | (25.0.0) | \$ | | \$ | | \$ | |
| Section | ' | s 50.64 | | (101 633 64) | \$ | 12,449.11 | 5 | (35.84) | \$ \$ | | 5 | | 5 | |
| SATUTAL \$ 724,6240 \$ 731,601.47 \$ 0,000.00 \$ 0, | | * | | | , | | | - | ľ | | , | | , | 35 Schedule 24 Admin Allocation |
| S | 4 S | \$ 692.04 | | (101,633.64) | \$ | 99,440.46 | S | (268.80) | \$ | 731,891.47 | \$ | 729,429.49 | S . | SUBTOTAL |
| 15 Dr. Abael Nove Asset Superior State 15 15 15 15 15 15 15 1 | _ | | | | | | | | | | | | | |
| 138 Red Time Congestion | | | | | | | | | | | | | | |
| 22. Day Abad Financial Blazerd Transaction Congestion \$ (46,50144) \$ 23,743.21 \$ (0,563.62) \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | | | | | | | | | | | |
| 2 Day Abard Financial Blatteral Congressions | | | | | | | | | | | | | | |
| Section Sect | | | | | | | | (70,563.62) | s | 23,743.21 | \$ | (46,820.41) | \$ | |
| 10 Fanacial Transmission Rights Morthly Allocation \$ (222,124.90) \$ \$ \$ (222,124.90) \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | | | | | | | | | | | |
| 12 Financial Transmission Rights Tearly Allocation S | \$ - | \$ - | . 1 | | | | | | \$ | 3,145,511.66 | \$ | | \$ | |
| 15 Francial Transmission Rights Transmission Rights Transmission Rights Transmission Rights Transmission Rights Transmission Rights Remarks Character Amount \$ 522,681.87 \$ 5 522,681.87 | \$ - | | | | | | | (322,124.90) | \$ | - | Ş | (322,124.90) | \$ | |
| 5 Financial Transmission Guarantee Amount \$ \$22,818.7 \$ \$ \$ \$ \$ \$ \$ \$ \$ | 5 - | 5 - | . 1 | | | | | - | 5 | - | 5 | - | 5 | |
| Second S | s - | | | | | | | _ | s | 522.681.87 | s | 522.681.87 | s | |
| Surformal Surf | | S - | | | | | | (478,145.35) | s | - | s | | s | 37 Financial Transmission Guarantee Uplift Amount |
| Note | ş - | \$ - | | | | | | | \$ | - | \$ | | \$ | |
| 10 Day Abead Revenue Sufficiency Guarantee Distribution | ş - | \$ - | | - | \$ | - | \$ | (36,900,304.69) | \$ | 3,691,936.74 | \$ | (33,208,367.95) | \$ | |
| 11 Day Ahead Revenue Sufficiency Make Whole Payment | 4 | | | | | | e | | | 211 970 21 | e | 211 970 21 | e | |
| 24 Real Time Revenue Sufficiency Guarantee Histe Whole Payment \$ 1,011,288.59 \$ 1,011,288.59 \$ 1,010,284.80 \$ 1,010,284.80 \$ \$ 1,010,284.80 \$ \$ 1,010,284.80 \$ \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ 1,010,284.80 \$ | | | | (330 696 94) | \$ | - | 5 | (475 855 32) | s | 211,870.31 | , | | 3 | |
| Seal Time Revenue Sufficiency Guarantee Make Whole Payment | | | | (330,030.31) | * | _ | s | (175,055.52) | | 1.011.288.59 | s | | Š | |
| SUBTOTAL | | | | | \$ | | | | \$ | | | | \$ | |
| Other Charges OR Real Time Miscellaneous 1 | | | | (159,994.47) | \$ | | | | | - | S | | S S | |
| 20 Real Time Miscellaneous \$ (11,992,732.56) \$ 13,255,255.64 \$ (12,640,508.75) \$ (14,640,508.75) \$ 14.89 | \$ - | \$ - | | (1,121,352.81) | \$ | - | \$ | (1,826,811.75) | \$ | 1,223,158.90 | \$ | (1,725,005.66) | \$ | |
| 21 Real Time Net Inadvertent Distribution | | \$ 14.00 | | (12.640.509.72) | e | | | (12.607.510.47) | e | 13 255 205 64 | e | (11.002.722.54) | e | |
| 23 Real Time Revenue Neutrality Uplift Amount SUBTOTAL Auction Revenue Rights (ARR) Nation Revenue Rights -FTR Auction Transactions \$ 14,246,626.37 \$ 14,397,722.96 \$ (151,096.59) \$ 1,956.04 Auction Revenue Rights -FTR Auction Transactions \$ 14,246,626.37 \$ 14,397,722.96 \$ (151,096.59) \$ 1,456,240.47) \$ \$ 1,956.04 Auction Revenue Rights -FTR Auction Transactions \$ 14,246,626.37 \$ 14,397,722.96 \$ (151,096.59) \$ (14,302,404.47) \$ 1,956.04 Auction Revenue Rights -FTR Auction Transactions \$ 14,246,626.37 \$ 14,397,722.96 \$ (151,096.59) \$ (14,302,404.47) \$ 1,956.04 Auction Revenue Rights -ARR Stage 2 Distribution \$ 5 (605,336.30) \$ 97,567.73 \$ 97,5 | | | . ! | (12,040,308.73) | , | | | | \$ 9 | | 3 | | 3 | |
| 26 Real Time Uninstructed Deviation Amount SUBTOTAL Auction Revenue Rights (ARR) 39 Auction Revenue Rights - FTR Auction Transactions \$ 14,246,626.57 \$ 14,397,722.96 \$ (13,769,663.19) \$ \$ 266.62 40 Auction Revenue Rights - Monthly ARR Revenue \$ (44,26,985.44) \$ 10,946.29 \$ (14,362,404.47) \$ 1,956.04 41 Auction Revenue Rights - ARR Stage 2 Distribution \$ (605,336.30) \$ 9 \$ (605,336.30) \$ 1,956.04 42 Auction Revenue Rights - ARR Stage 2 Distribution \$ (605,336.30) \$ 9 \$ (605,336.30) \$ 1,956.04 42 Auction Revenue Rights - MR Stage 2 Distribution \$ (605,336.30) \$ 9 \$ (605,336.30) \$ 1,956.04 43 Auction Revenue Rights - ARR Stage 2 Distribution \$ (605,336.30) \$ 9 \$ (605,336.30) \$ 1,956.04 44 Auction Revenue Rights - ARR Stage 2 Distribution \$ (605,336.30) \$ 9 \$ (605,336.30) \$ 1,956.04 45 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 9 (605,336.30) \$ 1,956.04 46 Auction Revenue Rights - ARR Stage 2 Distribution \$ (605,336.30) \$ 1,956.04 47 Day Ahead Congestion Rebate on Carve Out-Grandfathered \$ (512,038.64) \$ 14,604,842.68 \$ (15,118,837.36) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Ψ (/T.T/) | 251.75 | . [| | | - | s | | Š | | s | | s | |
| Auction Revenue Rights (ARR) Auction Revenue Rights (ARR) Auction Revenue Rights - FIR Auction Transactions \$ 14,246,626.37 | | | | | | | | | | | | | | 26 Real Time Uninstructed Deviation Amount |
| 39 Auction Revenue Rights - FTR Auction Transactions \$ 14,246,626,57 \$ 14,307,722.96 \$ (15,109.6.9) \$ 4.00,000.00 \$ | 2 \$ (74.47) | \$ 266.62 | | (12,640,508.73) | \$ | - | S | (13,769,663.19) | \$ | 15,652,522.25 | \$ | (10,757,649.67) | \$ | |
| 40 Auction Revenue Rights - Monthly ARR Revenue 41 Auction Revenue Rights - Monthly Infrashle ARR Revenue 42 Auction Revenue Rights - Monthly Infrashle ARR Revenue 43 SUBTOTAL 44 Auction Revenue Rights - Monthly Infrashle ARR Revenue 45 (512,038.64) 46 S (512,038.64) 47 Auction Revenue Rights - Monthly Infrashle ARR Revenue 48 (512,038.64) 49 Auction Revenue Rights - Monthly Infrashle ARR Revenue 49 Day Ahead Congestion Rebate on Carve Out-Grandfathered 40 S (512,038.64) 41 Auction Revenue Rights - Monthly Infrashle ARR Revenue 42 Auction Revenue Rights - Monthly Infrashle ARR Revenue 43 (512,038.64) 41 Auction Revenue Rights - Monthly Infrashle ARR Revenue 43 (512,038.64) 42 Auction Revenue Rights - Monthly Infrashle ARR Revenue 44 Auction Revenue Rights - Monthly Infrashle ARR Revenue 45 (512,038.64) 45 (512,038.64) 46 (512,038.64) 47 (512,048.64) 48 (605,336.30) 48 (605,336.30) 49 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 41 (605,336.30) 42 (605,336.30) 43 (605,336.30) 49 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 40 (605,336.30) 41 (605,336.30) 41 (605,336.30) 42 (605,336.30) 43 (605,336.30) 44 (605,336.30) 45 (605,336.30) 46 (605,336.30) 47 (605,336.30) 48 (605,336.30) 49 (605,336.30) 40 (605,336.30) | | | بسحب | | | | | (454.007.50) | | 14 207 722 07 | | 1101/ /01 05 | | |
| 41 Auction Revenue Rights - ARR Stage 2 Distribution 42 Auction Revenue Rights - MR Stage 2 Distribution 43 Auction Revenue Rights - MR Stage 2 Distribution 44 Suction Revenue Rights - Monthly Infessible ARR Revenue 5 97,656.73 \$ 97,656.73 \$ 1,956.04 \$ | | | | 1.056.04 | e | | | | \$ 0 | | \$ | | \$ | |
| 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 97,656.73 \$ 97,656.73 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | 1,730.04 | , | | | | 5 5 | 109,402.99 | s | | S | |
| SUBTOTAL | | | | | | | | - | s | | š | 97,656.73 | š | 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue |
| 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered \$ 48,090.32 \$ 70,563.62 \$ (22,464.39) \$ (339.40) \$ Day Ahead Loss Rebate on Carve Out-Grandfathered \$ 10,950.52 \$ 11,289.92 \$ (339.40) \$ Day Ahead Loss Rebate on Option B-Grandfathered \$ Day Ahead Loss Rebate on Option B-Grandfathered \$ 10,950.52 \$ 11,289.92 \$ (339.40) \$ 0 Day Ahead Loss Rebate on Option B-Grandfathered \$ 10,950.52 \$ 11,289.92 \$ (339.40) \$ 0 Day Ahead Loss Rebate on Carve Out Grandfathered \$ 10,950.52 \$ 11,289.92 \$ (339.40) \$ 0 Day Ahead Loss Rebate on Carve Out Grandfathered \$ 0 Day Ahead Loss Rebate on Carve Out Grandfathered \$ 0 Day Ahead Loss Rebate on Carve Out Grandfathered \$ 0 Day Ahead Loss Rebate on Carve Out Grandfathered \$ 0 Day Ahead Loss Rebate on Carve Out Grandfathered \$ 0 Day Ahead Loss Rebate on Option B-Grandfathered \$ 0 Day Ahead Loss Rebate on Op | \$ - | \$ - | | 1,956.04 | \$ | - | \$ | (15,118,837.36) | \$ | 14,604,842.68 | \$ | | \$ | SUBTOTAL |
| 7 Day Ahead Loss Rebate on Carve Out-Grandfathered \$ 10,950.52 \$ 11,289.92 \$ (339.40) | | _ | | | | | | | | B0 5 4 2 1 2 | | 10.05 | | |
| 8 Day Ahead Congestion Rebate on Option B-Grandfathered 9 Day Ahead Loss Rebate on Option B-Grandfathered 18 Real Time Congestion Rebate on Carve Out Grandfathered 8 ISBITOTAL 8 Solution Solut | | | | | | | | | \$ | | S | | \$ | |
| 9 Day Ahead Loss Rebate on Option B-Grandfathered 18 Real Time Loss Rebate on Carve Out Grandfathered 18 Real Time Loss Rebate on Carve Out Grandfathered SUBTOTAL MISO Day 2 Charges (1,120,286) \$ (57,043,332,43) 3,676,213 \$ 268,580,293.52 (3,603,142) \$ (246,532,704,09) - \$ 99,440.6 (1,193,357) \$ (79,190,362,12) 5,200 \$ 559,483,66 | | | | | | | | (5.59.40) | \$ | 11,289.92 | 2 | 10,950.52 | , | |
| 17 Real Time Loss Rebate on Carve Out Grandfathered | | | | | | | | | | | | J | | |
| SUBTOTAL - \$ 59,049.84 - \$ 81,853.54 - \$ (22,803.70) - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | | | | | | | | | | | | J | | 17 Real Time Loss Rebate on Carve Out Grandfathered |
| MISO Day 2 Charges (1,120,286) \$ (57,043,332.43) 3,676,213 \$ 268,580,293.32 (3,603,142) \$ (246,532,704.09) - \$ 99,440.46 (1,193,357) \$ (79,190,362.12) 5,200 \$ 559,483.66 | | | | | | | | | | | | | | 18 Real Time Congestion Rebate on Carve Out Grandfathered |
| | - \$ - | \$ - | | - | - \$ | - | - \$ | (22,803.70) | - S | 81,853.54 | | 59,049.84 | - \$ | |
| x Net Congestion Amount \$ 39,615,079.91 \$ 39,615,079.91 \$ - | \$ (74.47) | \$ 559,483.66 | 5,200 | (79,190,362.12) | (1,193,357) \$ | 99,440.46 | - s | (246,532,704.09) | (3,603,142) \$ | | 3,676,213 \$ | | (1,120,286) \$ | |
| y Net Loss Amount \$ 11,464,034.83 \$ 11,464,034.83 \$ - | | | | | | : 1 | Ş | | | | \$ | | \$ 0 | |
| y Net Loss Amount 3 11,404,054-05 3 11,404,055-05 5 12,004,054-05 5 12 | | | | | | - | " | | | | s | | s | |
| SUBTOTAL - \$ \$ \$ \$ \$ \$ - | - S | \$ - | | - | - \$ | - 1 | - S | - | - S | - 1 | | - 1 | | SUBTOTAL |
| Total MISO Day 2 Charges (1,120,286) \$ (57,143,332.43) 3,676,213 \$ 268,580,293.32 (3,603,142) \$ (246,532,704.09) - \$ 99,440.46 (1,193,357) \$ (79,190,362.12) 5,200 \$ 559,483.66 | · - \$ (74.47 | \$ 559,483.66 | 5,200 | (79,190,362.12) | (1,193,357) \$ | 99,440.46 | - \$ | (246,532,704.09) | (3,603,142) \$ | 268,580,293.32 | 3,676,213 \$ | (57,043,332.43) | (1,120,286) \$ | Total MISO Day 2 Charges |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

| Proceedings | July 2022 | NET INV | OICE | | RE | ΓAIL | | INTE | RSYSTEM - ASSET BASE | ED. | INTE | ERSYSTEM - NON- | | age 7 of 1: D |
|--|--|----------------|-----------------|--------------|----------------|----------------|------------------|--------|----------------------|-----------------|-------|----------------------|------|------------------|
| December Company Com | | | | MWh | | | Revenue | | | | | | | |
| 10.00000000000000000000000000000000000 | | are visit | THE COST | | Cost | | acreadt. | Cost | WII | ALC TOTAL | | COST | Ko | |
| Decomposition Control | 1a Day Ahead Asset Energy | | | 4,015,479 \$ | 260,477,674.71 | | | | (1,075,459) \$ | (64,669,509.24) | | | | |
| 20 | | | | - S | | | | | | | 8,000 | \$ 585,587.75 | - \$ | - |
| Section Column | | | | | | | | | (95,177) \$ | (4,679,403.93) | | | | |
| December Company Com | | | | | | | | e | (1.170.626) 8 | ((0.249.012.17) | 9,000 | \$ - e 505 507 75 | - 3 | |
| Description Comment | | (1,100,400) \$ | (34,413,212.00) | 4,000,400 3 | 204,131,413.17 | (4,070,220) 3 | (229,193,/14.00) | - 3 | - (1,1/0,030) ş | (02,340,213.17) | 0,000 | \$ 303,307.73 | - 3 | - |
| Description of Manage Transport and Service of Servic | | | | | | | | | | | | | | |
| December Company Com | | | | | | | | | | | | | | |
| 25 Real Filter | | \$ | (6,928.60) | \$ | 960.35 | \$ | (7,888.95) | | | | | | | |
| Bar The Exclusion Loans | | | | | | | | | | | | | | |
| 10 Part France History | 22c Real Time Non Asset Loss | 9 | (3.941.304.02) | 9 | | 9 | (3.941.304.02) | | | | | | | |
| Secretary Secr | | , | (3,741,304.02) | , | - | , | (3,741,304.02) | | | | | | | |
| 20 Development | SUBTOTAL | S | (3,948,232.62) | \$ | 960.35 | \$ | (3,949,192.97) | \$ | - \$ | - | | S - | \$ | - |
| 2. Red Tree Visual Forces | Virtual Energy | | | | | | | | | | | | | |
| Second Second Company | | | | | | | | | | | | | | |
| Dec Teach Market Coloration Colorate | | | | | | | | | | | | | | |
| Description March Administration (Scholar) Section | | - 5 | - | - 3 | - | - 5 | - | - 5 | - 3 | - | - | \$ - | - \$ | - |
| Description Section | | 2 | 760,965.07 | 2 | 671,719.58 | 2 | - | \$ 89 | 45.49 | | | \$ 665.40 | | |
| 20 December 100 | 19 Real Time Market Administration (Schedule 17) | š | | s | 58,646.62 | š | - | | | | | s - | | |
| 1. Read Transcholar Alleron Aments \$ (0,300.00) \$ (0,000.00) | | S | 10,560.47 | \$ | | S | - | | 1 | | | ş - | | |
| 5 School & Admin Ablection | | \$ | 112,641.34 | \$ | | s | - | \$ 12, | 52.24 | | | \$ 103.04 | | |
| Section 1.5 | | S | (93,303.21) | \$ | 9,987.01 | S | (19,903.24) | | \$ | (83,386.98) | | \$ - | | |
| December Per | | | 957 420 40 | | 051 503 70 | | (10.002.24) | g 100 | 125.04 | /02 207 000 | | e 760.44 | e | |
| Decoration Dec | | 2 | 857,438.40 | 2 | 851,502.78 | 5 | (19,903.24) | ş 109, | 22.04 | (85,386.98) | | a /08.44 | ý | _ |
| Society Description Society | | | | | | | | | | | | | | |
| 250 Real Files Nova Baser Congession | | | | | | | | | | | | | | |
| 2 Day Association Security | | | | | | | | | | | | | | |
| 15 Red Time Financial Blanced Longuesco 5 Fearacit Terminosiene Right Hospital 5 Fearacit Terminosiene Right Hospital 5 Fearacit Terminosiene Right Hospital 5 Fearacit Terminosiene Right Hospital 6 Fearacit Terminosiene Right Hospital 6 Fearacit Terminosiene Right Hospital 7 Fearacit Terminosiene Right Hospital 7 Fearacit Terminosiene Right Hospital 7 Fearacit Terminosiene Right Hospital 8 Fearacit Terminosiene Right Hospital 8 Fearacit Terminosiene Right Hospital 8 Fearacit Terminosiene Right Hospital 8 Fearacit Terminosiene Right Hospital 8 Fearacit Terminosiene Right Hospital 8 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 9 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminosiene Right Hospital 10 Fearacit Terminos | 22b Real Time Non Asset Congestion | | | | | | | | | | | | | |
| 20 Famerial Transmission Right Houlty Allocation \$ (17,479,904.34) \$ 2,273,04.27 \$ (23,277.07) \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2 Day Ahead Financial Bilateral Transaction Congestion | Ş | (48,026.83) | \$ | 1,906.27 | ş | (49,933.10) | | | | | | | |
| 10 Founcal Transmission Right Variety Monthly Allocation \$ (2,297/07) \$ \$ \$ \$ \$ \$ \$ \$ \$ | | 3 | (17 470 804 33) | 3 | 2 733 024 20 | 9 | (20.212.018.62) | | | | | e e | 9 | |
| 22 Formacial Transmission Registry Purely Allocations \$ \$ \$ \$ \$ \$ \$ \$ \$ | 30 Financial Transmission Rights Monthly Allocation | s | | s | 2,733,024.27 | Š | | | | | | | s | |
| Section Sect | | s | - | \$ | - | s | - | | | | | s - | \$ | - |
| S | | | | | | | | | | | | | | |
| SECOND S | 36 Financial Transmission Rights Full Funding Guarantee Amount | \$ | | \$ | 279,916.93 | \$ | - | | | | | | \$ | - |
| STOTAL | | \$ | (275,855.97) | \$ | - | \$ | (275,855.97) | | | | | \$ - | | |
| Broad Make Winde Payment | | \$ | (17 547 157 20) | 3 | 3 014 947 40 | 5 | (20 562 004 78) | ę | 9 | | | \$ - e | \$ | - |
| 10 Dy Ahead Revenue Sufficiency Guarantee Derindusion \$ 231,491.25 \$ \$ 251,491.25 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | Ÿ | (11,011,101.20) | ý | 5,011,011.15 | Ÿ | (20,302,001.70) | Ÿ | Ÿ | | | Ÿ | Ÿ | |
| 24 Red Time Revenue Sufficiency Guarantee Flave Distribution \$ \$324,800.57 \$ \$ \$ \$ \$ \$ \$ \$ \$ | 10 Day Ahead Revenue Sufficiency Guarantee Distribution | ş | | \$ | 251,491.25 | | | \$ | - | | | | | |
| 25 Red Time Revenue Sufficiency Guarantee Make Whole Payment \$ (708,077.27) \$ \$ (319,072.29) \$ \$ (311,771.49) \$ \$ (3111,771.49) \$ (3111,771 | | s | | | | S | (168,101.66) | | \$ | (268,746.13) | | | | |
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ | | \$ | 524,869.57 | | | \$ | - | | | | | |
| SIBTOTAL | | \$ | (708,077.27) | \$ | - | ş | | | \$ | (319,907.29) | | | | |
| Other Charges | | 9 | (650,435,10) | 9 | 776 360 82 | 9 | | 8 | . 8 | | | ۹ . | \$ | |
| 20 Real Time Miscellaneous \$ (12,707,805) \$ 13,36,126,17 \$ (13,11,771.49) \$ (13,017,142.73) \$ 27,014.70 \$ (13,017,142.73) \$ 227.09 \$ (13,017,142.73) \$ (13, | | ş | (000, 100.10) | ş | 770,000.02 | ş | (122,002.72) | ¥ | ý | (101,195.00) | | * | Ÿ | |
| Seal Time Revenue Neutrality Uplift Amount S 476,854.77 S 1,335,543.29 S (858,688.52) S | 20 Real Time Miscellaneous | \$ | | \$ | | S | | | \$ | (13,017,142.73) | | \$ - | | |
| 26 Real Time Uninstructed Deviation Amount | | \$ | | \$ | | S | | | 1 | | | \$ 227.09 | \$ | (138.24 |
| Sultional Sult | | \$ | 476,854.77 | \$ | 1,335,543.29 | S | (858,688.52) | \$ | - [| | | | | |
| Auction Revenue Rights (ARB) 3 | | | (12.175.442.27) | | 14.052.002.47 | | (14 112 442 00) | e | | (13 017 140 72) | | \$ 227.00 | e | (138.24 |
| 14246,626.37 \$ 14,207,822.96 \$ (151,096.59) | | 2 | (14,1/5,003.3/) | 2 | 14,955,925.16 | 5 | (14,112,443.80) | ý | - 3 | (13,017,142.73) | | g 221.09 | þ | (138.24 |
| 40 Auction Revenue Rights - Monthly ARR Revenue \$ (14,250,985,44) \$ 109,462.99 \$ (14,272,398.25) \$ (88,050.18) \$ (405,336.38) \$ (405,336.38) \$ (312,038.71) \$ 109,462.99 \$ (14,272,398.25) \$ (88,050.18) \$ (88,050.18) \$ (42,272,398.25) \$ (88,050.18) \$ (42,272,398.25) \$ (88,050.18) \$ (42,272,398.25) \$ (42,272,398 | | S | 14,246,626.37 | S | 14,397,722.96 | S | (151,096.59) | | | | | | | |
| 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 97,656.74 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,666.75 \$ 97,677.94 \$ 97,677. | 40 Auction Revenue Rights - Monthly ARR Revenue | \$ | (14,250,985.44) | s | | s | (14,272,398.25) | | \$ | (88,050.18) | | | | |
| SURIOTAL | | \$ | | \$ | - | s | (605,336.38) | | | | | | | |
| Grandfathered Charge Types Say Alexa Congestion Rebate on Carve Out-Grandfathered \$ 48,026.83 \$ 49,933.10 \$ (1,906.27) | | \$ | | \$ | | \$ | - | _ | | | | | | |
| Day Ahead Congestion Relate on Carve Out-Grandfathered | | \$ | (512,038.71) | S | 14,604,842.69 | \$ | (15,028,831.22) | \$ | - \$ | (88,050.18) | | > - | \$ | - |
| 2 Day Ahead Loss Rebate on Carve Out-Grandfathered S 6,928.60 S 7,888.95 S (960.35) Day Ahead Loss Rebate on Option B-Grandfathered Day Ahead Loss Rebate on Option B-Grandfathered S S S S S S S S S | | 8 | 48 026 83 | 9 | 49 933 10 | 9 | (1.906.27) | | | | | | | |
| S Day Ahead Congestion Relate on Option B Grandfathered | | s | | s | | s | | | | | | | | |
| 17 Real Time Loss Rebate on Carve Out Grandfathered \$ \$ \$ \$ \$ \$ \$ \$ \$ | 8 Day Ahead Congestion Rebate on Option B-Grandfathered | | ., | 1 | ., | | () | | | | | | | |
| 18 Real Time Congesition Rebate on Carve Out Grandfathered \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | | | | | | 1 | | | | | |
| SUBTOTAL \$ \$ 54,955.43 \$ \$ 57,822.05 \$ \$ 2,866.62 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | | S | - | | | S | - | | 1 | | | | | |
| MISO Day 2 Charges | | \$ | | | FT 000 0F | \$ | (2.077.72) | | | | | | | |
| x Net Congestion Amount \$ 25,176,879.16 \$ 25,176,879.16 \$ - y Net Loss Amount \$ 13,379,529.86 \$ 13,379,529.86 \$ - z Net Congestion and Loss Energy Offset \$ (38,556,409.02) \$ - \$ - SUBTOTAL - \$ - \$ - \$ - \$ - | | | | | | - S | | | - \$ | (83.242.284.04) | | | \$ | (139.2 |
| y Net Loss Amount \$ 13,379,529.86 \$ 13,379,529.86 \$ - \$ - z Net Congestion and Loss Energy Offset \$ (38,556,409.02) \$ (38,556,409.02) \$ - <th< td=""><td></td><td>(1,100,100) \$</td><td></td><td>1,000,100 \$</td><td></td><td>(4,070,270) \$</td><td>(200,072,759.01)</td><td>S 109,</td><td>- (1,170,030) \$</td><td>(00.00)</td><td>0,000</td><td>J00,J03.20</td><td></td><td>(130.2</td></th<> | | (1,100,100) \$ | | 1,000,100 \$ | | (4,070,270) \$ | (200,072,759.01) | S 109, | - (1,170,030) \$ | (00.00) | 0,000 | J00,J03.20 | | (130.2 |
| Z Net Congestion and Loss Energy Offset \$ (38,556,409.02) \$ (38,556,409.02) \$ (38,556,409.02) SUBTOTAL - S - - S - - S - - S - - | y Net Loss Amount | s | 13,379,529.86 | s | 13,379,529.86 | | | š | - | | | | | |
| | Net Congestion and Loss Energy Offset | \$ | | s | | | | | | | | | | |
| Total MISO Day 2 Charges (1,180,466) \$ (68,334,345.32) 4,068,466 \$ 298,391,674.51 (4,078,296) \$ (283,592,959.61) - \$ 109,225.84 (1,170,636) \$ (83,242,286.06) 8,000 \$ 586,583.28 - \$ (1.20,10.25) \$ (1.20 | | | | | | - S | | - \$ | | | - | ş - | - \$ | |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

Docket No. E002/AA-21-295 True-Up Report Part B, Attachment 10 Page 8 of 13

| August 2022 | NET IN | VOICE | | RET | AIL | | п | NTERSYSTE | EM - ASSET BASEI |) | INTE | RSYSTEM - NON | ASSET B | ASED |
|---|----------------|-------------------|--------------|---|----------------|---|---------------------------------------|------------|------------------|-----------------|----------|-----------------|----------|--------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | | MWh | |
| Day Ahead & Real Time Energy | WI WII | Tect Cost | M W II | Cost | WWII | Revenue | WWII | Cost | WIWII | Revenue | IVI WII | Cost | IVI W II | RCV |
| Day Ahead Asset Energy | (836,512) \$ | (3,403,613.95) | 3,834,955 \$ | 284,914,999.66 | (3,623,479) \$ | (217,823,951.06) | | | (1,047,988) \$ | (70,494,662.55) | | | | |
| Day Ahead Non Asset Energy | (289,152) \$ | | - S | 0.62 | (289,152) \$ | (20,856,414.90) | | | (1,017,200) | (70,151,002.55) | 9,200 \$ | 766,983.25 | _ | s |
| Real Time Asset Energy | (776) \$ | | 71,544 \$ | 6,055,315.53 | 28,338 \$ | 1,176,676.69 | | | (100,658) \$ | (6,347,710.59) | -, | | | * |
| Real Time Non Asset Energy | 1 8 | (147.43) | 1 8 | (147.41) | - S | (0.02) | | | (,) | (0,0.1.)) | - S | _ | _ | s |
| SUBTOTAL | (1,126,438) \$ | | 3,906,500 \$ | 290,970,168.40 | (3,884,293) \$ | (237,503,689.29) | - S | - | (1,148,646) \$ | (76,842,373.14) | 9,200 S | 766,983.25 | - | S |
| Day Ahead & Real Time Energy Loss | (1,120,100) | (20,0.10,0.1100) | 0,000,000 | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (0,000,000) 4 | (201,000,000,125) | * | | (-3-103010) 4 | (10,010,011) | 2,000 0 | . 00,5 00.20 | | |
| Day Ahead Loss | | | | | | | | | | | | | | |
| Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Loss | S | (10,996.72) | s | 943.62 | S | (11,940.34) | | | | | | | | |
| Real Time Loss | | (, , , , , , , , | | | | (,) | | | | | | | | |
| Real Time Non Asset Loss | | | | | | | | | | | | | | |
| Real Time Distribution Losses | S | (3,520,667.46) | s | | S | (3,520,667.46) | | | | | | | | |
| Real Time Financial Bilateral Loss | | (-,,, | | | | (, , , , , , , , , , , , , , , , , , , | | | | | | | | |
| SUBTOTAL | S | (3,531,664.18) | S | 943.62 | S | (3,532,607,80) | S | - | S | - | s | - | | S |
| Virtual Energy | | (1) | | | | () | | | | | | | | Ė |
| Day Ahead Virtual Energy | | | | | | | | | | | | | | |
| Real Time Virtual Energy | | | | | | | | | | | | | | |
| SUBTOTAL | - S | - | - S | | - S | _ | - S | - | - S | - | - S | _ | | S |
| Schedules 16, 17 & 24 | Ÿ | | Ÿ | | Ÿ | | , T | | Ÿ | | Ů | | | Ĺ |
| Day Ahead Market Administration (Schedule 17) | 8 | 561,495.23 | 8 | 551,895.11 | S | - | S | 9.600.12 | | | S | 597.28 | | |
| Real Time Market Administration (Schedule 17) | s | 48,510.28 | s | 49,596.59 | s | - | s | (1,086.31) | | | š | - | | |
| Financial Transmission Rights Administration (Schedule 16) | s | 97,297.00 | s | 97,297.00 | s | - | 1 | (,. ,) | | | š | _ | | |
| Day-Ahead Schedule 24 Allocation Amount | s | 101,770.81 | s | 90,012.88 | s | - | s | 11,757.93 | | | s | 107.36 | | |
| Real -Time Schedule 24 Allocation Amount | 9 | (87,104.36) | 9 | 20,979.25 | ç | | , , , , , , , , , , , , , , , , , , , | -1,757.55 | s | (108,083.61) | Š | 107.30 | | |
| Schedule 24 Admin Allocation | | (07,101.30) | 1 | 20,010.20 | 1 | · | | | ľ | (-30,003.01) | , | | | |
| SUBTOTAL | 9 | 721,968.96 | S | 809,780.83 | 9 | - | s | 20,271.74 | S | (108,083.61) | s | 704.64 | | S |
| Congestion & FTRs | , and a | . 21,700.70 | ş | 302,700.03 | ş | | Ÿ | | Ÿ | (-30,003.01) | Ÿ | 701.01 | | ÷ |
| Day Ahead Congestion | | | | | | | | | | | | | | |
| Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| Real Time Congestion | | | | | | | | | | | | | | |
| Real Time Non Asset Congestion | | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Congestion | \$ | (40,304.37) | s | 10,267.74 | S | (50,572.11) | | | | | | | | |
| Real Time Financial Bilateral Congestion | · · | (10,00 1.07) | | 10,207.71 | * | (30,372.11) | | | | | | | | |
| Financial Transmission Rights Hourly Allocation | \$ | (31,643,701.31) | \$ | 3,081,068.95 | \$ | (34,724,770.26) | | | | | \$ | _ | | s |
| Financial Transmission Rights Monthly Allocation | Š | (676,846.58) | Š | 5,001,000.75 | Š | (676,846.58) | | | | | Ÿ | | | Š |
| Financial Transmission Rights Yearly Allocation | Š | (0.0,010.50) | Š | | Š | (070,010.50) | | | | | \$ | _ | | Š |
| Financial Transmission Rights Transaction | , | - | * | - | * | - | | | | | , | - | | ÷ |
| Financial Transmission Rights Full Funding Guarantee Amount | 9 | (749,904.44) | 9 | | 9 | (749,904.44) | | | | | | | | ç |
| Financial Transmission Guarantee Uplift Amount | ş | 744,017.63 | 9 | 744,017.63 | Š | (/12,201.11) | | | | | 6 | | | , |
| Financial Transmission Rights Monthly Transaction Amount | ş | 777,017.03 | 9 | /44,017.03 | Š | - | | | | | 9 | - | | e |
| SUBTOTAL | S | (32,366,739.07) | S | 3,835,354.32 | S | (36,202,093.39) | s | | S | | S | | | ç |
| RSG & Make Whole Payments | ş | (32,300,733.07) | ş | 5,055,554.52 | ş | (30,202,073.37) | ş | - | ą | - | ş | _ | | Ÿ |
| Day Ahead Revenue Sufficiency Guarantee Distribution | 9 | 209,846.94 | 9 | 209,846.94 | | | 8 | 1 | | | | | | |
| Day Ahead Revenue Sufficiency Make Whole Payment | ş | (144,012.39) | * | 202,040.24 | 9 | (89,519.08) | , | - | 9 | (54,493.31) | | | | |
| Real Time Revenue Sufficiency Guarantee First Pass Distribution | ş | 684,416.26 | 9 | 684,416.26 | * | (02,312.00) | e | | * | (34,473.31) | | | | |
| Real Time Revenue Sufficiency Guarantee Make Whole Payment | ş | (1,256,217.88) | * | 004,410.20 | 9 | (371,546.82) | , | - | 9 | (884,671.06) | | | | |
| Real Time Price Volatility Make Whole Payment | ş | (158,139.46) | 9 | | * | (\$112,320.29) | | | · · | (45,819.17) | | | | |
| SUBTOTAL | 8 | | 8 | 894.263.20 | e | (573,386.19) | s | + | s | (984,983,54) | s | | | S |
| Other Charges | 3 | (004,100.53) | ž | 074,403.20 | ş | (373,360.19) | ş | | 3 | (204,203.34) | 3 | | | ş |
| Real Time Miscellaneous | | (12,783,018.81) | 0 | 13,303,940.21 | | (13,069,816.29) | | | e | (13,017,142.73) | | 87.74 | | |
| Real Time Miscellaneous Real Time Net Inadvertent Distribution | 3 | (12,/83,018.81) | 2 | 13,303,940.21 296,196.74 | \$ | (13,069,816.29) (204,923.37) | | | Þ | (13,017,142.73) | 3 | 87.74 198.49 | | s |
| Real Time Revenue Neutrality Uplift Amount | 3 | 159,335.19 | 3 | 887,182.76 | 3 | (727,847.57) | 9 | | | | 3 | 176.49 | | ٥ |
| Real Time Uninstructed Deviation Amount | , | 139,333.19 | 3 | 00/,102./0 | 3 | (/4/,04/.3/) | , | - | | | | | | |
| Real Time Uninstructed Deviation Amount SUBTOTAL | 9 | (12,532,410.25) | S | 14,487,319.71 | | (14,002,587.23) | 9 | | s | (13,017,142.73) | | 286.23 | | s |
| Auction Revenue Rights (ARR) | 2 | (14,334,410.25) | \$ | 14,487,319./1 | \$ | (14,002,587.23) | þ | - | þ | (13,017,142.73) | 2 | 280.23 | | ۶ |
| Auction Revenue Rights (ARR) Auction Revenue Rights - FTR Auction Transactions | | 14,246,626.37 | 0 | 14,397,722.96 | | (151,096.59) | | | | | | | | |
| Auction Revenue Rights - FTR Auction Transactions Auction Revenue Rights - Monthly ARR Revenue | 2 | (14,246,626.37 | 3 | 14,397,722.96 | \$ | | | | | (43,812.41) | | | | |
| Auction Revenue Rights - Monthly ARR Revenue Auction Revenue Rights - ARR Stage 2 Distribution | 3 | (605,336.65) | 2 | 109,462.99 | \$ | (14,316,636.02) (605,336.65) | | | Þ | (43,812.41) | | | | |
| Auction Revenue Rights - ARR Stage 2 Distribution Auction Revenue Rights - Monthly Infeasible ARR Revenue | 3 | (605,336.65) | 2 | 97,656.73 | \$ | (003,330.65) | | | | | | | | |
| Auction Revenue Rights - Monthly Inteasible ARR Revenue SUBTOTAL | 5 | | S S | 97,656.73 14,604,842.68 | S S | (15,073,069.26) | S | | S | (43,812.41) | s | | | c |
| Grandfathered Charge Types | 3 | (312,036.99) | ž | 14,004,042.08 | ş | (15,075,009.20) | ş | | 3 | (+3,012.41) | 3 | | | ş |
| Day Ahead Congestion Rebate on Carve Out-Grandfathered | e | 40,304.37 | e | 50,572.11 | e | (10.267.74) | | | | | | | | |
| Day Ahead Loss Rebate on Carve Out-Grandfathered | 3 | 10,996.72 | 9 | 11,940.34 | 3 | (10,267.74) | | | | | | | | |
| Day Ahead Congestion Rebate on Option B-Grandfathered | , | 10,990.72 | 3 | 11,240.34 | , | (243.02) | | | | | | | | |
| Day Ahead Loss Rebate on Option B-Grandfathered | 1 | | | | | | | | | | | | | |
| Real Time Loss Rebate on Carve Out Grandfathered | | | | | | | | | | | | | | |
| Real Time Loss Rebate on Carve Out Grandfathered Real Time Congestion Rebate on Carve Out Grandfathered | 1 | | | | | | | | | | | | | |
| Real Time Congestion Rebate on Carve Out Grandfathered SUBTOTAL | - S | 51,301.09 | - S | 62.512.45 | | (11,211.36) | - S | | | | - S | | | c |
| MISO Day 2 Charges | (1,126,438) \$ | | 3,906,500 \$ | 62,512.45 325,665,185.21 | (3,884,293) \$ | (11,211.36) | - \$ - \$ | 20,271.74 | (1,148,646) \$ | (90,996,395.43) | 9,200 \$ | | | Ş S |
| | (1,126,438) \$ | | 5,906,500 \$ | | (3,884,293) \$ | (306,898,644.52) | - 3 | 20,2/1./4 | (1,148,040) \$ | (90,996,395.43) | 9,200 \$ | /6/,9/4.12 | | è |
| Net Congestion Amount | \$ | 42,015,676.22 | \$ | 42,015,676.22 | | | \$ | - | | | | | | |
| Net Loss Amount | \$ | 14,606,352.04 | \$ | 14,606,352.04 | | | Ş | - | | | | | | |
| Net Congestion and Loss Energy Offset | \$ | (56,622,028.26) | \$ | (56,622,028.26) | _ | | _ | | _ | | | | | 0 |
| SUBTOTAL | - \$ | | - \$ | - | - \$ | - | - \$ | | - \$ | - | - \$ | | - | ş |
| Total MISO Day 2 Charges | (1,126,438) \$ | (72,209,583.00) | 3,906,500 \$ | 325,665,185.21 | (3,884,293) \$ | (306,898,644.52) | - ş | 20,271.74 | (1,148,646) \$ | (90,996,395.43) | 9,200 \$ | 767,974.12 | | d |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

| Auction Revenue Rights (ARB) 3 | September 2022 | NET INV | OICE | | RE | TAIL | | | INTERSYST | EM - ASSET BASE | ED | INTERS | SYSTEM - NON | -ASSET I | Page 9 of 13 SASED |
|---|--|--------------|-----------------|--------------|---------------|-------------|-----------------------------------|-----|---------------|-----------------|-----------------|--------|--------------|----------|-----------------------|
| Land December 1985 | Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| 20 Production Law Free 10 20 20 20 20 20 20 20 | | | | | | | | | | | | | | | |
| 20. An Internal Analog | | | | | | | | | | (972,215) \$ | (52,041,061.47) | _ | | | _ |
| 25 Activate Program 190 100 | | | | | | | | | | ((2.500) e | (2.105.207.07) | - Ş | - | - | \$ - |
| ### STATE OF THE PROPERTY OF T | 22a Real Time Non Asset Energy | | | | | | | | | (62,389) \$ | (2,105,207.97) | . 8 | | | s - |
| December | | | | | | (3,293,523) | | - | S - | (1,034,804) \$ | (54,146,269.44) | - S | - | - | \$ - |
| Bill Bill Bill Bill Bill Bill Bill Bil | Day Ahead & Real Time Energy Loss | | | | | | | | | | | | | | |
| Dec | | | | | | | | | | | | | | | |
| Section Sect | | | (12.200.02) | | 742.00 | | 6 (12.042.12) | | | | | | | | |
| Section Sect | | Ş | (13,200.03) | \$ | /43.09 | | \$ (13,943.12) | | | | | | | | |
| B. Common Processing | 22c Real Time Non Asset Loss | | | | | | | | | | | | | | |
| Section | 14 Real Time Distribution Losses | s | (2,792,430.88) | \$ | | | \$ (2,792,430.88) | | | | | | | | |
| Vision V | | | | | | | | | | | | | | | |
| 20 | SUBTOTAL | \$ | (2,805,630.91) | \$ | 743.09 | | \$ (2,806,374.00) | | \$ - | \$ | - | \$ | - | | \$ - |
| 2. Rol Tare Visual Energy | Virtual Energy | | | | | | | | | | | | | | |
| Section | | | | | | | | | | | | | | | |
| Second Section Column Co | | - S | - | - S | - | - | S - | - | S - | - S | - | - S | - | - | S - |
| 12 | Schedules 16, 17 & 24 | | | | | | | | | | | | | | |
| 22 France Transmisser Right Administration \$ (04,1200) \$ (04,1200) \$ \$ (04,1200) \$ \$ (04,1200) \$ \$ (04,1200) \$ \$ (04,1200) \$ \$ (04,1400) \$ | | \$ | | ş | | | \$ - | | | | | \$ | 113.28 | | |
| 15 Dept. Mach Schools & Machine Annount \$ 107,541.02 \$ 93,00.005 \$ 1,00.125 \$ 1,00.1 | | \$ | | s | | | s - | 1 | \$ 14,568.59 | | | \$ | - | l | |
| 18 Ref. Texas Schools 2 Al Marines (Alexans) | | \$ | | S | | | S - | | 8 42.504.44 | | | \$ | - | | |
| S. Scheck P. Adent (Alexano) S. Hallack P. Adent (Alexano) S. Hallack P. Adent (Alexano) S. Hallack P. Adent (Alexano) S. Hallack P. | | \$ | | \$ | | | \$ - \$ (24.014.00) | | \$ 13,504.16 | | /01 503 00 | \$ | | | |
| SETENTIAL | | 3 | (25,418.06) | 5 | 10,179.73 | | φ (24,014.99) | 1 | | \$ | (81,384.80) | 5 | - | l | |
| Decoding FTR Decoding Dec | SUBTOTAL | S | 841,086.43 | s | 760,977.38 | | \$ (24,014.99) | | \$ 185,706.84 | s | (81,582.80) | S | 117.60 | | \$ - |
| Society Soci | Congestion & FTRs | | | | | | | | | | | | | | |
| 18. Red Time Congession | | | | | | | | | | | | | | | |
| 25 Real Function Real Procession | | | | | | | | | | | | | | | |
| 2 Dep Alead Financial Bildered Transcrisor Congression \$ (2,386.60) \$ 2,035.53.2 \$ (44.00.00) \$ (2,305.53.2 | | | | | | | | | | | | | | | |
| 5 Red Time Founced Bilbared Congesion \$ \$ \$ \$ \$ \$ \$ \$ \$ | 2 Day Ahead Financial Bilateral Transaction Congression | 9 | (23.886.69) | 9 | 20 515 32 | | \$ (44.402.01) | | | | | | | | |
| 50 Franced Transmission Right Numbly Absention \$ (7.2410.45) \$ \$ (7.2410.45) \$ \$ \$ \$ \$ \$ \$ \$ \$ | | s | (25,000.05) | s | | | (11,102.01) | | | | | | | | |
| 22 Francial Tensensian Righty Petrol Albectson \$ \$ \$ \$ \$ \$ \$ \$ \$ | | s | (4,461,099.61) | s | 3,139,463.39 | | \$ (7,600,563.00) | | | | | \$ | - | | \$ - |
| 15 Francial Transmission Rights Path Interaction | | \$ | (72,810.45) | \$ | - | | \$ (72,810.45) | | | | | | | | \$ - |
| 5 Francial Transmission Register Self Amount \$ 749,14.99 \$ 749,14.99 \$ \$ 749,14.99 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ | - | \$ | - | | ş - | | | | | S | - | | \$ - |
| 5 | | | 740 (14 00 | | 740 (14.00 | | e | | | | | | | | e |
| Section Sect | 37 Financial Transmission Rights Full Funding Guarantee Amount | 5 | | 3 | /49,014.98 | | \$ (743.057.38) | | | | | \$ | | | 5 - |
| STOTY ALL S | 38 Financial Transmission Rights Monthly Transaction Amount | s | (/45,057.50) | s | - | | \$ (745,057150) \$ - | | | | | s | - | | s - |
| 10 Dy Ahead Revenue Sufficiency Guarantee Distribution \$ \$ \$ \$ \$ \$ \$ \$ \$ | SUBTOTAL | \$ | (4,551,239.15) | S | 3,909,593.69 | | \$ (8,460,832.84) | | S - | \$ | - | \$ | - | | \$ - |
| 11 Dy Abeal Revenue Sufficiency (Juntamer First Pass Distribution \$ 0.779,006.73) \$ 0.565,013.15 \$ 0 | RSG & Make Whole Payments | | | | | | | | | | | | | | |
| 24 Red Time Revenue Sufficiency Guarantee Fine Plass Destribution \$ 356,531.35 \$ 356,531.35 \$ \$ 356,531.35 \$ \$ \$ \$ \$ \$ \$ \$ \$ | | \$ | | ş | 81,361.64 | | | | \$ - | _ | | | | | |
| 25 Red Time Revenue Sufficiency Guarantee Make Whole Payment | | \$ | | e | 25/ 521 25 | | \$ (367,103.06) | | e | ş | (411,923.67) | | | | |
| 43 Red Time Piner Volanity Make Whole Payment \$ (247,002.95) \$ (590,215.25) \$ (66,787.68) \$ (10,146,675.25) \$ (10, | | 5 | | 3 | 330,331.33 | | \$ (485.338.96) | | 5 - | \$ | 58 783 31 | | | | |
| SUBTOTAL S | 43 Real Time Price Volatility Make Whole Payment | s | | s | _ | | | | | Š | | | | | |
| 20 Real Time Miscellaneous \$ (11,48)(21,43) \$ 13,661,119.33 \$ (12,745,06.86) \$ (12,597,234.90) \$ 2,217 \$ (35.67) \$ | SUBTOTAL | S . | (1,014,692.32) | S | 437,892.99 | | \$ (1,042,657.27) | | S - | \$ | (409,928.04) | S | - | | \$ - |
| 21 Red Time Net Inadvertent Distribution \$ 50,047.39 \$ 20,289.99 \$ (21,2275.57) \$ (25,6724.99) \$ 22.17 \$ (35.67.29) \$ (21,277.57) \$ (21,277.57) \$ (21,277.57) \$ (35.67.29) \$ (21,277.57) \$ (21,277.5 | | | | | | | | | | | | | | | |
| 2.8 Real Time Revenue Neutrality Uplift Amount 2.6 Real Time Uninstructed Deviation Amount 3.7 SURFOCAL 3.7 SURFOCAL 3.8 SURFOCAL 3.8 SURFOCAL 3.8 Auction Revenue Rights (ARR) 3.9 Auction Revenue Rights (ARR) 3.9 Auction Revenue Rights - Monthly ARR Revenue 3.0 Surfocal Revenue Rights - Monthly ARR Revenue 4.0 Auction Revenue Rights - Monthly ARR Revenue 5.0 Supplies - Monthly ARR Revenue 6.0 Supplies - Monthly ARR Revenue 7. Surfocal Revenue Rights - Monthly Infeasible ARR Revenue 8.0 Surfocal Revenue Rights - Mont | | \$ | | s | | | | 1 | | \$ | (12,597,234.90) | \$ | | l | |
| 26 Real Time Uninstructed Deviation Amount | 21 Keal Lime Net Inadvertent Distribution | \$ | | ş | 262,890.96 | | | 1 | e | | | \$ | 22.17 | l | \$ (35.63) |
| Surtification Surtificatio | 26 Real Time Uninstructed Deviation Amount | 3 | 550,061.07 | 5 | 1,2/9,209.88 | | a (729,208.81) | 1 | · - | | | | | | |
| Auction Revenue Rights (ARB) 3 | | S | (10,881,242.97) | s | 15,403,280.17 | | \$ (13,687,288.24) | | \$ - | S | (12,597,234.90) | S | 22.17 | | \$ (35.63 |
| 40 Auction Revenue Rights - Monthly ARR Revenue 41 Auction Revenue Rights - ARR Stage 2 Distribution 42 Auction Revenue Rights - ARR Stage 2 Distribution 43 Auction Revenue Rights - ARR Stage 2 Distribution 44 Auction Revenue Rights - ARR Stage 2 Distribution 5 (497)(8741) 5 (497)(| Auction Revenue Rights (ARR) | | | | | | | | | | | | | | |
| 41 Auction Revenue Rights - ARR Stage 2 Distribution 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue 5 240,80185 \$ 241,043.15 \$ (497,087.41) \$ SUBTOTAL Grantifethered Charge Types 6 Day Ahead Long Rebate on Carve Out-Grandfathered 7 Day Ahead Long Rebate on Carve Out-Grandfathered 8 13,200.03 \$ 13,943.12 \$ (743.09) 8 Day Ahead Long Rebate on Option B-Grandfathered 9 Day Ahead Long Rebate on Option B-Grandfathered 9 Day Ahead Long Rebate on Option B-Grandfathered 18 Real Time Congestion Rebate on Carve Out-Grandfathered 18 Real Time Congestion Rebate on Carve Out-Grandfathered 19 Day Ahead Long Rebate on Carve Out-Grandfathered 19 Day Ahead Long Rebate on Carve Out-Grandfathered 10 SUBTOTAL 10 Subtraction Option B-Grandfathered 10 Subtraction Option B-Grandfathered 10 Subtraction Option B-Grandfathered 10 Subtraction Option B-Grandfathered 10 Subtraction Option B-Grandfathered 10 Subtraction Option B-Grandfathered 10 Subtraction Option B-Grandfathered 11 Subtraction Option B-Grandfathered 12 Subtraction Option B-Grandfathered 13 Subtraction Option B-Grandfathered 14 Subtraction Option B-Grandfathered 15 Subtraction Option B-Grandfathered 16 Subtraction Option B-Grandfathered 17 Subtraction Option B-Grandfathered 18 Subtraction Option B-Grandfathered 19 Subtraction Option B-Grandfathered 20 | | \$ | | ş | | | | | | | | | | | |
| 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue \$ 240,801.85 | | \$ | | \$ | 224,363.60 | | | 1 | | \$ | (36,633.65) | | | | |
| SUBTOTAL | | \$ | | ş | 244.042.15 | | | 1 | | | | | | | |
| Grandfathered Charge Types S | | \$ 6 | | \$ e | | | \$ (241.30) \$ (10.841.242.25) | 1 | ç | e | (36,633,65) | e | | | s |
| 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered | | , a | (270,033.09) | 3 | 10,001,042.01 | | y (10,071,242.23) | | Ÿ - | 3 | (30,033.03) | 3 | | | Y |
| S Day Ahead Congestion Rebate on Option B-Grandfathered | 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered | \$ | | ş | | | | | | | | | | | |
| Day Ahead Loss Rebate on Option B-Grandfathered | 7 Day Ahead Loss Rebate on Carve Out-Grandfathered | \$ | 13,200.03 | s | 13,943.12 | | | 1 | | | | | | l | |
| 17 Real Time Loss Rebate on Carve Out Grandfathered \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | | | | | 1 | | | | | | l | |
| 18 Real Time Congestion Rebate on Carve Out Grandfathered \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | | | | e | | | | | | | | |
| SURTOTAL | | \$ 6 | - | | | | 5 - S | | | | | | | | |
| MISO Day 2 Charges | SUBTOTAL | - 8 | 37.086.72 | - S | 58.345 13 | - | \$ (21.258.41) | - | S - | - 8 | - | - 8 | - | - | S - |
| x Net Congestion Amount \$ 12,738,493.81 \$ 12,738,493.81 \$ <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(67,271,648.83)</td><td></td><td>139.77</td><td></td><td>\$ (35.63</td></th<> | | | | | | | | | | | (67,271,648.83) | | 139.77 | | \$ (35.63 |
| Z Net Congestion and Loss Energy Offset \$ (21,717,644.26) | | \$ | | \$ | | | | | \$ - | | | | | | |
| SUBTOTAL - \$ | | \$ | | s | | | | | \$ - | | | | | | |
| | | \$ | (21,717,644.26) | \$ | | | e | 1 | | | | | | | 0 |
| | SUBTOTAL Total MISO Day 2 Charges | (973,820) \$ | (36,969,806.90) | 3,354,508 \$ | | | | | \$ 185,706.84 | (1,034,804) \$ | (67,271,648.83) | - \$ | 139.77 | | \$ /35.62 |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

Docket No. E002/AA-21-295 True-Up Report

| October 2022 | NET I | NVOICE | | RET | AIL | | | INTERSYST | EM - ASSET BASI | ED | INTI | ERSYSTEM - NO | N-ASSET | BASED |
|---|-------------|--------------------------------|--------------|--------------------|----------------|------------------|-----|---------------|-----------------|------------------|------|---------------|---------|-------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | | MWh | |
| Day Ahead & Real Time Energy | MWh | Net Cost | MWh | Cost | MWh | Kevenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Ke |
| Day Ahead Asset Energy | (846,359) | 3,702,483.01 | 3,060,914 \$ | 129,557,928.69 | (2,851,622) \$ | (93,842,621.05) | | | (1,055,650) \$ | (32,012,824.63) | | | | |
| Day Ahead Non Asset Energy | (282,122) | | 3,000,714 \$ | 0.41 | (282,122) \$ | (12,561,148.61) | | | (1,033,030) ş | (32,012,024.03) | | e | | s |
| Real Time Asset Energy | 9,565 | 937,370.02 | 54.535 S | 2.759.179.51 | 43,802 \$ | 976,672.42 | | | (00.772) e | (2.700, 401, 01) | - | , - | - | ۶ |
| | | | | | 45,802 \$ | 9/0,0/2.42 | | | (88,772) \$ | (2,798,481.91) | | | | |
| Real Time Non Asset Energy | 319 | | 319 \$ | 458,048.10 | - 5 | - | | | | | - | \$ - | - | \$ |
| SUBTOTAL | (1,118,596) | (7,463,247.07) | 3,115,768 \$ | 132,775,156.71 | (3,089,942) \$ | (105,427,097.24) | - | \$ - | (1,144,422) \$ | (34,811,306.54) | - | \$ - | - | \$ |
| Day Ahead & Real Time Energy Loss | | | | | | | | | | | | | | |
| Day Ahead Loss | | | | | | | | | | | | | | |
| Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Loss | | (4,126.88) | \$ | 1,172.17 | \$ | (5,299.05) | | | | | | | | |
| c Real Time Loss | | | | | | | | | | | | | | |
| : Real Time Non Asset Loss | | | | | | | | | | | | | | |
| Real Time Distribution Losses | 5 | (1,616,198.25) | \$ | 15,650.46 | \$ | (1,631,848.71) | | | | | | | | |
| Real Time Financial Bilateral Loss | 5 | 8.31 | \$ | 8.31 | | | | | | | | | | |
| SUBTOTAL | 5 | (1,620,316.82) | \$ | 16,830.94 | \$ | (1,637,147.76) | | \$ - | \$ | - | | \$ - | | \$ |
| Virtual Energy | | | | | | | | | | | | | | |
| Day Ahead Virtual Energy | | | | | | | | | | | | | | |
| Real Time Virtual Energy | | | | | | | | | | | | | | |
| SUBTOTAL | - 5 | - | - S | - | - S | - | - | S - | - \$ | - | - | S - | - | S |
| Schedules 16, 17 & 24 | | | | | | | | | | | | | | |
| Day Ahead Market Administration (Schedule 17) | | 542,953.21 | 9 | 463,400.08 | 9 | | | \$ 79,553.13 | | | | \$. | | |
| Real Time Market Administration (Schedule 17) | | 56,164.99 | Š | 50,029.53 | Š | (261.92) | | \$ 6,397.38 | 1 | | | s - | | 1 |
| | 1 | 21,039.77 | ę | 21,039.77 | 9 | (201.72) | | . 0,001.00 | 1 | | | s | | 1 |
| Financial Transmission Rights Administration (Schedule 16) Day-Ahead Schedule 24 Allocation Amount | 1 13 | 96,906.20 | 2 | 82,535.70 | 1 | - | | \$ 14,370.18 | 1 | | | \$ 0.: | 2 | 1 |
| Real -Time Schedule 24 Allocation Amount | 1 13 | 82,788.98) | 3 | 10,268.12 | 9 | (4,698.49) | | g 14,570.18 | | (88,358.61) | | \$ 0 \$ - | - | |
| |] | (84,/88.98) | 5 | 10,208.12 | 5 | (4,098.49) | | | , | (88,008.61) | | · - | | |
| Schedule 24 Admin Allocation SUBTOTAL | | 634,275,19 | | 627.273.20 | _ | (4.960.41) | | \$ 100,320,69 | s | (88,358,61) | | S 0. | | |
| | 1 | 634,275.19 | \$ | 627,273.20 | \$ | (4,960.41) | | a 100,320.69 | \$ | (88,358.61) | | 9 0.: | 4 | \$ |
| Congestion & FTRs | | | | | | | | | | | | | | |
| Day Ahead Congestion | | | | | | | | | | | | | | |
| Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| Real Time Congestion | | | | | | | | | | | | | | |
| Real Time Non Asset Congestion | | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Congestion | 5 | 923.80 | \$ | 14,762.71 | \$ | (13,838.91) | | | | | | | | |
| Real Time Financial Bilateral Congestion | 5 | 86.65 | \$ | 86.65 | | | | | | | | | | |
| Financial Transmission Rights Hourly Allocation | 5 | (2,183,842.20) | \$ | 2,517,273.63 | \$ | (4,701,115.83) | | | | | | \$ - | | \$ |
| Financial Transmission Rights Monthly Allocation | | (200,765.40) | \$ | - | \$ | (200,765.40) | | | | | | | | \$ |
| Financial Transmission Rights Yearly Allocation | | 3 - 1 | S | - | S | | | | | | | S - | | s |
| Financial Transmission Rights Transaction | | | | | | | | | | | | | | |
| Financial Transmission Rights Full Funding Guarantee Amount | 9 | (182,284.97) | S | - | S | (182,284.97) | | | | | | | | s |
| Financial Transmission Guarantee Uplift Amount | | 177,556.08 | Š | 177,556.08 | Š | (,) | | | | | | s . | | |
| Financial Transmission Rights Monthly Transaction Amount | | 2 17,000.00 | Š | 177,000.00 | Š | | | | | | | e e | | 6 |
| SUBTOTAL | | (2,388,326.04) | 9 | 2,709,679.07 | 9 | (5,098,005.11) | | e | 9 | | | ş - | | ç |
| RSG & Make Whole Payments | | (2,300,320.04) | ş | 2,702,072.07 | ş | (3,070,003.11) | | , | ş | | | , | | ş |
| Day Ahead Revenue Sufficiency Guarantee Distribution | | 105,247.84 | e | 105,247.84 | | | | e | | | | | | |
| Day Ahead Revenue Sufficiency Make Whole Payment | | | 2 | 105,247.84 | | (180,568.34) | | ş - | | 440 540 40 | | | | |
| | 1 | (321,128.68) | _ | | Ş | (180,568.34) | | _ | \$ | (140,560.34) | | | | |
| Real Time Revenue Sufficiency Guarantee First Pass Distribution | 1 | 122,490.20 | Ş | 122,490.20 | _ | | | \$ - | | | | | | |
| Real Time Revenue Sufficiency Guarantee Make Whole Payment Real Time Price Volatility Make Whole Payment | | (67,500.22) | \$ | 100.20 | ş | (3,347.83) | | | \$ | (64,252.59) | | | | |
| Real Time Price Volatility Make Whole Payment | 5 | (135,816.23) | \$ | 83.74 | | (\$96,054.51) | | | \$ | (39,845.46) | | | | |
| SUBTOTAL | 9 | (296,707.09) | \$ | 227,921.98 | \$ | (279,970.68) | | \$ - | \$ | (244,658.39) | | \$ - | | \$ |
| Other Charges | | | | | | | | | | | | | | |
| Real Time Miscellaneous | | (12,848,083.13) | Ş | 14,214,827.73 | Ş | (14,045,768.13) | | | \$ | (13,017,142.73) | | ş - | | |
| Real Time Net Inadvertent Distribution | | (251,389.23) | S | 170,902.76 | S | (422,286.99) | | | 1 | | | \$ 3. | 2 | \$ |
| Real Time Revenue Neutrality Uplift Amount | | 897,100.36 | s | 1,479,793.32 | s | (582,692.96) | | S - | 1 | | | | | 1 |
| Real Time Uninstructed Deviation Amount | | | 1. | | | | | | 1 | | | | | 1 |
| SUBTOTAL | | (12,202,372.00) | S | 15,865,523.81 | s | (15,050,748.08) | | S - | S | (13,017,142.73) | | \$ 3.· | 2 | S |
| Auction Revenue Rights (ARR) | | (,,,,) | ý | | Ÿ | (-0,000, 10.00) | | | Ÿ | (-0,0,-12-70) | | | | |
| Auction Revenue Rights - FTR Auction Transactions | | 9,883,261.64 | ę | 10,136,435.26 | ę | (253,173.62) | | | | | | | | |
| Auction Revenue Rights - FTR Auction Transactions Auction Revenue Rights - Monthly ARR Revenue | 1 13 | (9,903,009.97) | ٥ | 224,363.60 | ٩ | (10,089,870.58) | | | e | (37,502.99) | | | | 1 |
| Auction Revenue Rights - Monthly ARR Revenue Auction Revenue Rights - ARR Stage 2 Distribution | 1 13 | (497,086.80) | 3 | 224,303.00 | 3 | (497,086.80) | | | , | (37,302.99) | | | | 1 |
| Auction Revenue Rights - ARR Stage 2 Distribution Auction Revenue Rights - Monthly Infeasible ARR Revenue | 1 13 | 3 (497,086.80) 3 240.801.85 | 3 | 240.801.85 | 9 | (427,080.80) | | | 1 | | | | | 1 |
| Auction Revenue Rights - Monthly Inteasible ARR Revenue SUBTOTAL | 3 | | \$ | | S S | (10,840,131.00) | | 0 | | (37,502.99) | | S - | | |
| | | (2/6,033.28) | Ş | 10,601,600.71 | Ş | (10,840,131.00) | | ş - | \$ | (37,502.99) | | 3 - | | \$ |
| Grandfathered Charge Types | | | | | | | | | | | | | | F |
| Day Ahead Congestion Rebate on Carve Out-Grandfathered | | (923.80) | \$ | 13,838.91 | \$ | (14,762.71) | | | | | | | | 1 |
| Day Ahead Loss Rebate on Carve Out-Grandfathered | | 4,126.88 | \$ | 5,299.05 | \$ | (1,172.17) | | | | | | | | |
| Day Ahead Congestion Rebate on Option B-Grandfathered | | l | | | | | | | 1 | | | | | 1 |
| Day Ahead Loss Rebate on Option B-Grandfathered | | 1 | | | | | | | 1 | | | | | 1 |
| Real Time Loss Rebate on Carve Out Grandfathered | | (8.31) | | | \$ | (8.31) | | | 1 | | | | | 1 |
| Real Time Congestion Rebate on Carve Out Grandfathered | | (86.65) | | | \$ | (86.65) | | | L | | | | | Щ. |
| SUBTOTAL | - 5 | | - \$ | 19,137.96 | - \$ | (16,029.84) | - | \$ - | - \$ | | - | \$ - | | \$ |
| MISO Day 2 Charges | (1,118,596) | | 3,115,768 \$ | 162,843,124.38 | (3,089,942) \$ | (138,354,090.12) | - | \$ 100,320.69 | (1,144,422) \$ | (48,198,969.26) | - | \$ 3. | 4 - | \$ |
| Net Congestion Amount | 15 | 16,454,866.06 | S | 16,454,866.06 | | | | S - | | | | | | Г |
| Net Loss Amount |] | 6,817,704.38 | s | 6,817,704.38 | | | | S - | 1 | | | | | 1 |
| Net Congestion and Loss Energy Offset | 1 | (23,272,570.44) | ę | (23,272,570.44) | | | | | 1 | | | | | 1 |
| SUBTOTAL | | | e | (ac/ya/2ay//1//TT) | e | | | \$ | e | | | s | + | ç |
| Total MISO Day 2 Charges | (1,118,596) | | 3,115,768 \$ | 162.843.124.38 | (3,089,942) \$ | (138 354 090 12) | - | s 100 320 69 | (1,144,422) \$ | (48 198 969 26) | - | Y - | | 9 |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| November 2022 | NET IN | VOICE | | RE | ΓAIL | | I | NTERSYSTI | EM - ASSET BASED | ı | INT | ERSYSTEM - NON | I-ASSET I | Page 11 of 1 BASED |
|---|----------------|---------------------------------|--------------|---------------------------------|----------------|---------------------------------|------|------------|------------------|-----------------|-----|----------------|--------------|-----------------------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | | Cost | MWh | Revenue | MWh | | | Revenue |
| Day Ahead & Real Time Energy | | - 100 | | - | | | | | | | | 5507 | | |
| 1a Day Ahead Asset Energy | (751,708) \$ | 5,586,481.09 | 3,213,952 \$ | 103,058,382.85 | (3,057,191) \$ | (75,191,746.82) | | | (908,469) \$ | (22,280,154.94) | | | | |
| 5a Day Ahead Non Asset Energy | (188,467) \$ | (6,015,290.26) | 21 \$ | 798.58 | (188,488) \$ | (6,016,088.84) | | | | | - | S - | - | \$ - |
| 13a Real Time Asset Energy 22a Real Time Non Asset Energy | (136,821) \$ | (4,309,271.45) | 47,441 \$ | 1,504,716.66 | (52,241) \$ | (3,112,756.97) | | | (132,022) \$ | (2,701,231.14) | | e | | e |
| 22a Real Lime Non Asset Energy SUBTOTAL | (1,076,996) \$ | (4,738,080.62) | 3,261,414 \$ | 104,563,898.09 | (3,297,920) \$ | (84,320,592.63) | - S | | (1,040,491) \$ | (24,981,386.08) | - | S - | - | s - |
| Day Ahead & Real Time Energy Loss | (1,070,220) | (1,730,000.02) | J,201,111 ¥ | 101,303,070.07 | (3,271,720) | (01,020,002.00) | Ÿ | | (1,010,121) | (21,501,500.00) | | ý | | Ÿ |
| 1c Day Ahead Loss | | | | | | | | | | | | | | |
| 5c Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| 3 Day Ahead Financial Bilateral Transaction Loss | \$ | (2,359.55) | \$ | 1,269.97 | \$ | (3,629.52) | | | | | | | | |
| 13c Real Time Loss 22c Real Time Non Asset Loss | | | | | | | | | | | | | | |
| 14 Real Time Distribution Losses | 9 | (1,382,854.66) | 9 | 33,192.54 | 9 | (1,416,047.20) | | | | | | | | |
| 16 Real Time Financial Bilateral Loss | s | (1,002,001.00) | s | - | * | (1,110,017.20) | | | | | | | | |
| SUBTOTAL | \$ | (1,385,214.21) | \$ | 34,462.51 | \$ | (1,419,676.72) | \$ | - | \$ | - | | S - | | \$ - |
| Virtual Energy | | | | | | | | | | | | | | |
| 12 Day Ahead Virtual Energy | | | | | | | | | | | | | | |
| 27 Real Time Virtual Energy SUBTOTAL | | | | | | | e | | | | | e | 1 | e |
| Schedules 16, 17 & 24 | - 3 | - | - 3 | | - 3 | | - 3 | | - \$ | | | 9 | _ | ş - |
| 4 Day Ahead Market Administration (Schedule 17) | S | 676,989.99 | S | 594,578.91 | S | | S | 82,411.08 | | | | \$ | | |
| 19 Real Time Market Administration (Schedule 17) | s | 91,207.09 | s | 78,915.27 | s | (290.25) | \$ | 12,582.07 | | | | S - | | |
| 29 Financial Transmission Rights Administration (Schedule 16) | \$ | 21,607.54 | \$ | 21,607.54 | \$ | · - 1 | | | | | | S - | | |
| 33 Day-Ahead Schedule 24 Allocation Amount | \$ | 103,151.64 | \$ | 90,143.53 | S | - | \$ | 13,008.11 | | | | S - | | |
| 34 Real -Time Schedule 24 Allocation Amount | \$ | (89,557.94) | \$ | 14,063.51 | \$ | (5,044.42) | | | \$ | (98,577.03) | | Ş - | | |
| 35 Schedule 24 Admin Allocation SUBTOTAL | | 803,398.32 | - | 799,308.76 | | (5,334.67) | s | 108,001.26 | | (98,577.03) | | S - | 1 | e |
| SUBTOTAL Congestion & FTRs | \$ | 803,398.32 | 2 | /99,308./6 | 5 | (5,334.67) | \$ | 108,001.26 | Ş | (98,577.03) | | \$ - | | > - |
| 1b Day Ahead Congestion | | | | | | | | | | | | | | |
| 5b Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| 13b Real Time Congestion | | | | | | | | | | | | | | |
| 22b Real Time Non Asset Congestion | | | | | | | | | | | | | | |
| 2 Day Ahead Financial Bilateral Transaction Congestion | \$ | (14,831.27) | \$ | 9,401.52 | \$ | (24,232.79) | | | | | | | | |
| 15 Real Time Financial Bilateral Congestion 28 Financial Transmission Rights Hourly Allocation | \$ | (251,163.01) | \$ | 3,473,249.49 | | (3,724,412.50) | | | | | | e | | |
| 30 Financial Transmission Rights Hourly Allocation 30 Financial Transmission Rights Monthly Allocation | 3 | (251,165.01) | \$ | 3,473,249.49 | \$ | (29,038.67) | | | | | | 5 - | | \$ - |
| 32 Financial Transmission Rights Yearly Allocation | s | (25,050.07) | s | _ | Š | (22,030.07) | | | | | | s - | | s - |
| 31 Financial Transmission Rights Transaction | | | | | | | | | | | | | | |
| 36 Financial Transmission Rights Full Funding Guarantee Amount | \$ | 157,510.41 | \$ | 157,510.41 | \$ | - | | | | | | | | \$ - |
| 37 Financial Transmission Guarantee Uplift Amount | \$ | (155,562.07) | \$ | - | \$ | (155,562.07) | | | | | | \$ - | | |
| 38 Financial Transmission Rights Monthly Transaction Amount | \$ | | \$ | | \$ | - | _ | | | | | \$ - | ļ | \$ - |
| SUBTOTAL RSG & Make Whole Payments | \$ | (293,084.61) | \$ | 3,640,161.42 | \$ | (3,933,246.03) | \$ | - | \$ | - | | \$ - | | \$ - |
| 10 Day Ahead Revenue Sufficiency Guarantee Distribution | S | 132.559.47 | S | 132,559.47 | | | \$ | _ | | | | | | |
| 11 Day Ahead Revenue Sufficiency Make Whole Payment | s | (206,009.56) | | 104,000.11 | s | (33,472.19) | Ÿ | | s | (172,537.37) | | | | |
| 24 Real Time Revenue Sufficiency Guarantee First Pass Distribution | \$ | 424,622.29 | \$ | 424,622.29 | | (,, | s | - | | (, , | | | | |
| 25 Real Time Revenue Sufficiency Guarantee Make Whole Payment | \$ | (600,184.88) | \$ | 34.73 | \$ | (272,966.62) | | | \$ | (327,252.99) | | | | |
| 43 Real Time Price Volatility Make Whole Payment | \$ | (227,617.40) | \$ | 1,852.39 | | (\$157,515.01) | | | \$ | (71,954.78) | | | | |
| SUBTOTAL | \$ | (476,630.08) | \$ | 559,068.88 | Ş | (463,953.82) | Ş | - | \$ | (571,745.14) | | \$ - | | \$ - |
| Other Charges 20 Real Time Miscellaneous | ę | (12,536,231.27) | ę | 12,763,832.54 | ę | (12,702,828.91) | | | ę | (12,597,234.90) | | 9 | | |
| 21 Real Time Net Inadvertent Distribution | s | 186,069.44 | s | 342,057.70 | s | (155,986.49) | | | ľ | (14,20) | | \$ 0.42 | | \$ (2.1) |
| 23 Real Time Revenue Neutrality Uplift Amount | s | (571,997.75) | s | 721,566.16 | s | (1,293,563.91) | s | - | | | | | | . (|
| 26 Real Time Uninstructed Deviation Amount | | | | | | | | | | | | | 1 | |
| SUBTOTAL | \$ | (12,922,159.58) | \$ | 13,827,456.40 | \$ | (14,152,379.31) | \$ | - | \$ | (12,597,234.90) | | \$ 0.42 | | \$ (2.1) |
| Auction Revenue Rights (ARR) | - | 0.002.241.11 | - | 10.127.425.27 | - | (052.472.42) | | | | | | | | |
| 39 Auction Revenue Rights - FTR Auction Transactions 40 Auction Revenue Rights - Monthly ARR Revenue | \$ | 9,883,261.64 (9,903,009.97) | \$ | 10,136,435.26 224,363.60 | \$ | (253,173.62) (10,089,153.63) | | | e | (38,219.94) | | | | |
| 41 Auction Revenue Rights - Montnly ARR Revenue 41 Auction Revenue Rights - ARR Stage 2 Distribution | 3 | (497,086.80) | \$ | 224,303.00 | 3 | (497,086.80) | | | 3 | (30,219.94) | | | | |
| 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue | s | 240,884.14 | s | 240,884.14 | Š | (127,000.00) | | | | | | | | |
| SUBTOTAL | S | (275,950.99) | S | 10,601,683.00 | S | (10,839,414.05) | \$ | <u> </u> | \$ | (38,219.94) | | S - | | \$ - |
| Grandfathered Charge Types | | | | | | | | | | | | | | |
| 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered | \$ | 14,831.27 | \$ | 24,232.79 | \$ | (9,401.52) | | | | | | | | |
| 7 Day Ahead Loss Rebate on Carve Out-Grandfathered 8 Day Ahead Congestion Rebate on Option B-Grandfathered | \$ | 2,359.55 | \$ | 3,629.52 | \$ | (1,269.97) | | | | | | | 1 | |
| 9 Day Ahead Loss Rebate on Option B-Grandfathered | | | | | | | | | | | | | | |
| 17 Real Time Loss Rebate on Carve Out Grandfathered | s | _ | | | s | _ | | | | | | | | |
| 18 Real Time Congestion Rebate on Carve Out Grandfathered | s | - | | | s | - | | | | | | | | |
| SUBTOTAL | - \$ | 17,190.82 | - \$ | 27,862.31 | - \$ | (10,671.49) | - \$ | | - \$ | - | - | \$ - | - | \$ - |
| MISO Day 2 Charges | (1,076,996) \$ | (19,270,530.95) | 3,261,414 \$ | | (3,297,920) \$ | (115,145,268.72) | - \$ | 108,001.26 | (1,040,491) \$ | (38,287,163.09) | - | \$ 0.42 | - | \$ (2.1) |
| x Net Congestion Amount | ş | 14,398,706.83 | \$ | 14,398,706.83 | | | \$ | - 7 | | | | | | |
| y Net Loss Amount z Net Congestion and Loss Energy Offset | S | 7,605,318.11 (22,004,024.94) | S | 7,605,318.11 (22,004,024.94) | | | \$ | - | | | | | 1 | |
| | \$ | (22,004,024.94) | - S | (22,004,024.94) | ę | | - 8 | | - 8 | | | 9 | | s |
| SUBTOTAL | - S | | | | | | | | | | | | | |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

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| December 2022 | NET IN | VOICE | | RE | TAIL | | | INTERSYST | EM - ASSET BASE | D | INTERSY | STEM - NON | -ASSET B | ASED |
|--|--------------|-------------------------------|--------------|-----------------------|-------------|--------------------------------|----------|---------------|-----------------|-----------------|-----------|------------|----------|----------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | | MWh | Revenue | MWh | | | Revenue |
| Posting Account Description Day Ahead & Real Time Energy | MWh | Net Cost | MWh | Cost | MWh | Kevenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Kevenue |
| 1a Day Ahead Asset Energy | (729,433) \$ | (7,117,614.04) | 3,630,502 \$ | 162,660,442.69 | (3,347,654) | (128,671,276.65) | | | (1,012,280) \$ | (41,106,780.08) | | | | |
| 5a Day Ahead Non Asset Energy | (180,384) \$ | (8,204,768.96) | - S | 5,090.16 | (180,384) | (8,209,859.12) | | | () - / - / - / | (, , , | 16,800 \$ | 733,111.00 | - | \$ - |
| 13a Real Time Asset Energy | 78,808 \$ | 1,887,649.41 | 32,352 \$ | 1,546,279.29 | 276,318 | 13,799,799.30 | | | (229,863) \$ | (13,458,429.18) | | | | |
| 22a Real Time Non Asset Energy | (450) \$ | (89,695.88) | - S | - | (450) | | | | | | - \$ | - | - | \$ - |
| SUBTOTAL | (831,458) \$ | (13,524,429.47) | 3,662,854 \$ | 164,211,812.14 | (3,252,169) | (123,171,032.35) | - | \$ - | (1,242,143) \$ | (54,565,209.26) | 16,800 \$ | 733,111.00 | - | \$ - |
| Day Ahead & Real Time Energy Loss | | | | | | | | | | | | | | |
| 1c Day Ahead Loss 5c Day Ahead Non Asset Loss | | | | | | | | | | | | | | |
| 3 Day Ahead Financial Bilateral Transaction Loss | 9 | 5,716.43 | 9 | 7,651.04 | | (1,934.61) | | | | | | | | |
| 13c Real Time Loss | Ť | 3,710.13 | Ť | 7,001.01 | | (1,731.01) | | | | | | | | |
| 22c Real Time Non Asset Loss | | | | | | | | | | | | | | |
| 14 Real Time Distribution Losses | \$ | (2,144,781.20) | \$ | 242,296.32 | | (2,387,077.52) | | | | | | | | |
| 16 Real Time Financial Bilateral Loss | | | | | | | | | | | | | | |
| SUBTOTAL | \$ | (2,139,064.77) | \$ | 249,947.36 | : | (2,389,012.13) | | \$ - | \$ | - | \$ | - | | \$ - |
| Virtual Energy | | | | | | | | | | | | | | |
| 12 Day Ahead Virtual Energy 27 Real Time Virtual Energy | | | | | | | | | | | | | | |
| SUBTOTAL | - S | - | - S | - | - ! | | _ | s - | - S | _ | - S | _ | - | s - |
| Schedules 16, 17 & 24 | | | , | | | | | * | Ť | | , | | | · |
| 4 Day Ahead Market Administration (Schedule 17) | \$ | 569,229.19 | \$ | 497,332.27 | | 3 | | \$ 71,896.92 | | | \$ | 1,169.28 | | |
| 19 Real Time Market Administration (Schedule 17) | \$ | 54,195.25 | \$ | 39,359.10 | | (163.39) | l | \$ 14,999.54 | | | S | - | | |
| 29 Financial Transmission Rights Administration (Schedule 16) | \$ | 19,853.54 | S | 19,853.54 | | - | l | | | | \$ | - | | |
| 33 Day-Ahead Schedule 24 Allocation Amount | \$ | 108,675.75 | \$ | 95,168.22 | | - | l | \$ 13,507.53 | | | S | 225.12 | | |
| 34 Real -Time Schedule 24 Allocation Amount | \$ | (104,275.44) | ş | 11,269.04 | | 192.06 | 1 | | \$ | (115,736.54) | s | - | | |
| 35 Schedule 24 Admin Allocation SUBTOTAL | 9 | 647.678.29 | s | 662,982,17 | | 28.67 | 1 | \$ 100,403,99 | s | (115.736.54) | s | 1.394.40 | | \$. |
| Congestion & FTRs | ş | 047,078.29 | Ş | 002,982.17 | 3 | 28.07 | | \$ 100,405.99 | ş | (115,/30.54) | 3 | 1,394.40 | | , - |
| 1b Day Ahead Congestion | | | | | | | | | | | | | | |
| 5b Day Ahead Non Asset Congestion | | | | | | | | | | | | | | |
| 13b Real Time Congestion | | | | | | | | | | | | | | |
| 22b Real Time Non Asset Congestion | | | | | | | | | | | | | | |
| 2 Day Ahead Financial Bilateral Transaction Congestion | \$ | (19,113.41) | \$ | 21,560.83 | | (40,674.24) | | | | | | | | |
| 15 Real Time Financial Bilateral Congestion | \$ | - | \$ | | | | | | | | _ | | | |
| 28 Financial Transmission Rights Hourly Allocation 30 Financial Transmission Rights Monthly Allocation | \$ | (6,612,732.28) (95,289.88) | \$ | 4,128,632.07 | | (10,741,364.35) (95,289.88) | | | | | ş | - | | \$ - |
| 32 Financial Transmission Rights Yearly Allocation | 3 | (95,289.88) | 3 | - | | (95,289.88) | | | | | e | | | ş - |
| 31 Financial Transmission Rights Transaction | 3 | - | , | - | | , - | | | | | , | - | | , - |
| 36 Financial Transmission Rights Full Funding Guarantee Amount | s | (120,099.63) | s | _ | | (120,099.63) | | | | | | | | S - |
| 37 Financial Transmission Guarantee Uplift Amount | s | 123,032.52 | s | 123,032.52 | | - | | | | | s | - | | |
| 38 Financial Transmission Rights Monthly Transaction Amount | \$ | - | \$ | - | : | - | | | | | \$ | - | | \$ - |
| SUBTOTAL | \$ | (6,724,202.68) | \$ | 4,273,225.42 | | (10,997,428.10) | | \$ - | \$ | - | \$ | - | | \$ - |
| RSG & Make Whole Payments | | | | | | | | - | | | | | | |
| 10 Day Ahead Revenue Sufficiency Guarantee Distribution 11 Day Ahead Revenue Sufficiency Make Whole Payment | \$ | 179,197.28 (121,230.65) | ş | 179,197.28 | l . | (68,120.74) | | \$ - | | (50.400.04) | | | | |
| 24 Real Time Revenue Sufficiency Guarantee First Pass Distribution | 3 | 2,081,269.37 | e | 2,081,269.37 | | (08,120.74) | | e | , | (53,109.91) | | | | |
| 25 Real Time Revenue Sufficiency Guarantee Make Whole Payment | s | (1,946,929.08) | s | 1.37 | l . | (1,280,099.72) | | , | s | (666,830.73) | | | | |
| 43 Real Time Price Volatility Make Whole Payment | Š | (640,622.73) | Š | 34.66 | l l' | (\$525,411.32) | | | š | (115,246.07) | | | | |
| SUBTOTAL | S | (448,315.81) | \$ | 2,260,502.68 | | | | S - | \$ | (835,186.71) | S | - | | S - |
| Other Charges | | | | | | | | | | | | _ | | |
| 20 Real Time Miscellaneous | \$ | (13,811,390.33) | \$ | 13,316,340.41 | | (14,110,588.01) | | | \$ | (13,017,142.73) | \$ | (23.44) | | |
| 21 Real Time Net Inadvertent Distribution | \$ | 606,843.10 | \$ | 913,869.12 | | (307,026.02) | l | _ | | | \$ | 1,842.08 | | \$ (556. |
| 23 Real Time Revenue Neutrality Uplift Amount 26 Real Time Uninstructed Deviation Amount | \$ | (1,961,545.52) | \$ | 2,689,227.81 | ! | (4,650,773.33) | l | > - | | | | | | |
| 26 Real Time Uninstructed Deviation Amount SUBTOTAL | s | (15,166,092.75) | s | 16,919,437.34 | | (19,068,387.36) | | e | S | (13,017,142.73) | S | 1.818.64 | | \$ (556. |
| Auction Revenue Rights (ARR) | 3 | (13,100,092./3) | 3 | 10,717,437.34 | | (17,000,387.30) | <u> </u> | 9 | 3 | (13,017,142.73) | 3 | 1,010.04 | | φ (J36. |
| 39 Auction Revenue Rights - FTR Auction Transactions | 8 | 15,777,513.01 | S | 16,166,095.28 | l l | (388,582.27) | | | | | | | | |
| 40 Auction Revenue Rights - Monthly ARR Revenue | s | (15,782,515.07) | š | 388,578.28 | | (15,995,820.45) | l | | s | (175,272.90) | | | | |
| 41 Auction Revenue Rights - ARR Stage 2 Distribution | s | (683,288.39) | s | | | (683,288.39) | l | | ' | | | | | |
| 42 Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | 89,943.30 | ş | 89,943.30 | : | | | | | | | | | |
| SUBTOTAL | \$ | (598,347.15) | \$ | 16,644,616.86 | | (17,067,691.11) | | \$ - | \$ | (175,272.90) | \$ | - | | \$ - |
| Grandfathered Charge Types | | 10 112 11 | | 40.77.2. | | (21 5 () 22 | | | | | | | | |
| 6 Day Ahead Congestion Rebate on Carve Out-Grandfathered 7 Day Ahead Loss Rebate on Carve Out-Grandfathered | S | 19,113.41 (5,716.43) | \$ | 40,674.24 1,934.61 | | (21,560.83) (7,651.04) | 1 | | | | | | | |
| 8 Day Ahead Congestion Rebate on Option B-Grandfathered | 3 | (3,/10.43) | 3 | 1,734.01 | Į, | (7,051.04) | l | | | | | | | |
| 9 Day Ahead Loss Rebate on Option B-Grandfathered | 1 | | | | | | l | | | | | | | |
| 17 Real Time Loss Rebate on Carve Out Grandfathered | s | - | | | | - | l | | | | | | | |
| 18 Real Time Congestion Rebate on Carve Out Grandfathered | s | - | | | | - | l | | | | | | | |
| SUBTOTAL | - \$ | | - \$ | 42,608.85 | - : | | | \$ - | - \$ | - | - \$ | | - | \$ - |
| MISO Day 2 Charges | (831,458) \$ | (37,939,377.36) | 3,662,854 \$ | 205,265,132.82 | (3,252,169) | (174,596,366.03) | - | \$ 100,403.99 | (1,242,143) \$ | (68,708,548.14) | 16,800 \$ | 736,324.04 | - | \$ (556. |
| x Net Congestion Amount | \$ | 14,805,653.34 | \$ | 14,805,653.34 | | | l | \$ | | | | | | |
| y Net Loss Amount | \$ | 9,177,014.12 | S | 9,177,014.12 | | | l | \$ - | | | | | | |
| z Net Congestion and Loss Energy Offset SUBTOTAL | - 8 | (23,982,667.46) | - S | (23,982,667.46) | | , | 1 | e | - 8 | | | | | e |
| | | | | | | | - | | - 15 | - | | | - | |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

| January - December 2022 | NET INV | OICE | | RET | AIL | | INTERSY | STEM - ASSET BAS | ED | INTERS | SYSTEM - NON | ASSET BAS | 5ED |
|--|-------------------------|--------------------------------|-----------------------|-------------------------------|-----------------|-----------------------------------|------------------|-------------------|------------------|--------|---|-----------|-------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh Cost | MWh | Revenue | MWh | Cost | MWh | Rever |
| Day Ahead & Real Time Energy Day Ahead Asset Energy | (9,917,857) \$ | 50,600,589.37 | 41,016,274 \$ | 2,060,242,077.26 | (38,611,110) \$ | (1,504,840,981.35) | | (12,323,020) \$ | (504,800,506.54) | | | | |
| Day Ahead Non Asset Energy | (2,669,070) \$ | (132,768,247.77) | 3,352 \$ | 240,734.23 | (2,672,422) \$ | (133,008,982.00) | | (12,323,020) \$ | (304,000,300.34) | - s | 2,644,207.11 | - s | |
| Real Time Asset Energy | (139,146) \$ | (3,053,346.01) | 670,107 \$ | 36,571,027.35 | 578,550 \$ | 11,985,922.68 | | (1,387,803) \$ | (51,610,296.04) | | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , | |
| Real Time Non Asset Energy | (171) \$ | (87,488.40) | 2,014 \$ | 156,154.43 | (2,185) \$ | (243,642.83) | | | | - S | - | - \$ | |
| SUBTOTAL | (12,726,244) \$ | (85,308,492.81) | 41,691,746 \$ | 2,097,209,993.27 | (40,707,167) \$ | (1,626,107,683.50) | - \$ - | (13,710,823) \$ | (556,410,802.58) | - \$ | 2,644,207.11 | - \$ | |
| Day Ahead & Real Time Energy Loss | | | | | | | | | | | | | _ |
| Day Ahead Loss Day Ahead Non Asset Loss | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Loss | s | (172,225.98) | s | 39,328.01 | s | (211,553.99) | | | | | | | |
| Real Time Loss | | | | | | ,, | | | | | | | |
| Real Time Non Asset Loss | | | | | | | | | | | | | |
| Real Time Distribution Losses | \$ | (27,829,110.60) | \$ | 291,139.32 | \$ | (28,120,249.92) | | | | | | | |
| Real Time Financial Bilateral Loss SUBTOTAL | | (28,001,336.58) | | 330,467.33 | | (28,331,803.91) | S - | | | | | | |
| Virtual Energy | Ş | (28,001,336.38) | 3 | 330,467.33 | 3 | (28,331,803.91) | 3 - | 3 | - | 3 | | 3 | _ |
| Day Ahead Virtual Energy | | | | | | | | | | | | | _ |
| Real Time Virtual Energy | | | | | | | | | | | | | |
| SUBTOTAL | - \$ | - | - \$ | - | - \$ | - | - \$ - | - \$ | - | - \$ | 8 | - \$ | |
| Schedules 16, 17 & 24 | | | | | | | | | | | | | |
| Day Ahead Market Administration (Schedule 17) | \$ | 7,559,742.65 | \$ | 6,580,196.42 | S | - | \$ 979,546.2 | 3 | | S | 3,156.59 | | |
| Real Time Market Administration (Schedule 17) Financial Transmission Rights Administration (Schedule 16) | \$ | 787,523.97 331,553.99 | \$ | 679,286.80 331,553.99 | S | (715.56) | \$ 108,952.7 | 5 | | S | - | | |
| Day-Ahead Schedule 24 Allocation Amount | \$ | 1,200,279.46 | Š | 1,044,206.37 | 9 | (35.84) | \$ 156,108.9 | 3 | | \$ | 520.80 | | |
| Real -Time Schedule 24 Allocation Amount | Š | (1,106,495.99) | Š | 126,341.47 | š | (35,815.22) | ų 150,100.5 | s | (1,197,022.24) | š | 320.00 | | |
| Schedule 24 Admin Allocation | | | | | | | | 1 | | | | | |
| SUBTOTAL | \$ | 8,772,604.08 | \$ | 8,761,585.05 | \$ | (36,566.62) | \$ 1,244,607.8 | \$ | (1,197,022.24) | \$ | 3,677.39 | \$ | |
| Congestion & FTRs | | | | | | | | | | | | | |
| Day Ahead Congestion Day Ahead Non Asset Congestion | | | | | | | | | | | | | |
| Day Anead Non Asset Congestion Real Time Congestion | | | | | | | | | | | | | |
| Real Time Non Asset Congestion | | | | | | | | | | | | | |
| Day Ahead Financial Bilateral Transaction Congestion | \$ | (273,709.89) | s | 337,543.65 | s | (611,253.54) | | | | | | | _ |
| Real Time Financial Bilateral Congestion | Ş | - | \$ | - | | | | | | | | | |
| Financial Transmission Rights Hourly Allocation | Ş | (122,900,725.98) | \$ | 48,486,151.04 | \$ | (171,386,877.02) | | | | Ş | - | \$ | |
| Financial Transmission Rights Monthly Allocation Financial Transmission Rights Yearly Allocation | \$ | (2,899,316.04) (1,632,060.78) | \$ | - | \$ | (2,899,316.04) (1,632,060.78) | | | | | | \$ | |
| Financial Transmission Rights Yearly Allocation Financial Transmission Rights Transaction | 5 | (1,632,060.78) | 2 | - | 5 | (1,632,060.78) | | | | 5 | - | 5 | |
| Financial Transmission Rights Full Funding Guarantee Amount | s | 1,671,660.61 | s | 1,671,660.61 | s | _ | | | | | | s | |
| Financial Transmission Guarantee Uplift Amount | s | (1,538,776.09) | s | - | s | (1,538,776.09) | | | | s | - | , | |
| Financial Transmission Rights Monthly Transaction Amount | \$ | - 1 | \$ | - | s | - 1 | | | | \$ | - | \$ | |
| SUBTOTAL | \$ | (127,572,928.17) | \$ | 50,495,355.30 | \$ | (178,068,283.47) | ş - | \$ | - | \$ | - | \$ | |
| RSG & Make Whole Payments | | 1 0 10 015 11 | | 4 0 40 0 4 5 4 4 | | | | | | | | | |
| Day Ahead Revenue Sufficiency Guarantee Distribution Day Ahead Revenue Sufficiency Make Whole Payment | 3 | 1,842,815.41 (3,903,557.76) | 2 | 1,842,815.41 | e | (1,981,096.91) | 5 - | s | (1,922,460.85) | | | | |
| Real Time Revenue Sufficiency Guarantee First Pass Distribution | \$ | 7.214.645.51 | s | 7.214.645.51 | , | (1,261,020.21) | s - | , | (1,922,400.63) | | | | |
| Real Time Revenue Sufficiency Guarantee Make Whole Payment | Š | (8,907,512.93) | s | 136.30 | s | (4,983,579.96) | · · | s | (3,924,069.27) | | | | |
| Real Time Price Volatility Make Whole Payment | \$ | (2,769,032.96) | \$ | 1,970.79 | | (\$2,025,027.07) | | \$ | (745,976.68) | | | | |
| SUBTOTAL | \$ | (6,522,642.73) | \$ | 9,059,568.01 | \$ | (8,989,703.94) | ş - | \$ | (6,592,506.80) | \$ | = | \$ | |
| Other Charges | | | | | | | | | | | | | _ |
| Real Time Miscellaneous Real Time Net Inadvertent Distribution | \$ | (86,712,830.89) 986,813.84 | ş | 96,602,556.82 3.620,691.39 | S | (92,990,267.40) (2.633.877.55) | | \$ | (90,325,120.31) | S | 144.38 2.703.47 | | (|
| Real Time Net Inadvertent Distribution Real Time Revenue Neutrality Uplift Amount | 5 | 8,180,334.02 | 5 | 20,886,033.02 | 5 | (2,633,877.55) | s | | | 5 | 2,/03.4/ | 3 | |
| Real Time Uninstructed Deviation Amount | 1 | 0,100,004.02 | ľ | 20,000,033.02 | , | (***,700,022,00) | | | | | | | |
| SUBTOTAL | \$ | (77,545,683.03) | S | 121,109,281.23 | S | (108,329,843.95) | \$ - | \$ | (90,325,120.31) | s | 2,847.85 | \$ | |
| Auction Revenue Rights (ARR) | | | | | | | | | | | | | |
| Auction Revenue Rights - FTR Auction Transactions | Ş | 115,296,100.59 | \$ | 117,581,270.91 | \$ | (2,285,170.32) | | | | | | | |
| Auction Revenue Rights - Monthly ARR Revenue | \$ | (115,528,039.82) | \$ | 2,051,704.57 | \$ | (117,034,292.49) | | \$ | (545,451.90) | | | | |
| Auction Revenue Rights - ARR Stage 2 Distribution Auction Revenue Rights - Monthly Infeasible ARR Revenue | \$ | (4,991,372.80) 1,764,231.80 | 5 | 1,764,473.10 | 5 | (4,991,372.80) (241.30) | | | | | | | |
| SUBTOTAL | 8 | (3,459,080,23) | S | 121.397.448.58 | S | (124.311.076.91) | s - | S | (545.451.90) | s | _ | S | _ |
| Grandfathered Charge Types | * | (0,103,000.20) | 7 | 121,071,110.00 | , | (12,1,011,01,011) | 7 | | (0.10,10.10.0) | | | 7 | • |
| Day Ahead Congestion Rebate on Carve Out-Grandfathered | Ş | 93,345.66 | \$ | 391,033.96 | \$ | (297,688.30) | | | | | | | |
| Day Ahead Loss Rebate on Carve Out-Grandfathered | Ş | 22,925.83 | \$ | 63,284.26 | \$ | (40,358.43) | | | | | | | |
| Day Ahead Congestion Rebate on Option B-Grandfathered | | | | l | | | | | | | | | |
| Day Ahead Loss Rebate on Option B-Grandfathered Real Time Loss Rebate on Carve Out Grandfathered | | l | | | | | | | | | | | |
| Real Time Loss Rebate on Carve Out Grandfathered Real Time Congestion Rebate on Carve Out Grandfathered | 5 | | | l | 5 | | | | | | | | |
| SUBTOTAL | - 5 | 116,271.49 | - 8 | 454,318.22 | - 8 | (338,046.73) | - S - | - s | _ | - S | - | - 8 | _ |
| MISO Day 2 Charges | (12,726,244) \$ | (319,521,287.98) | 41,691,746 \$ | 2,408,818,016.99 | (40,707,167) \$ | (2,074,513,009.03) | - \$ 1,244,607.8 | 9 (13,710,823) \$ | (655,070,903.83) | - S | 2,650,732.35 | - \$ | |
| Net Congestion Amount | \$ | (8,909,536.88) | \$ | (8,909,536.88) | | | \$ - | | | | | | |
| Net Loss Amount | \$ | (849,797.78) | \$ | (849,797.78) | | | \$ - | | | | | | |
| Net Congestion and Loss Energy Offset | \$ | 9,759,334.66 | \$ | 9,759,334.66 | | | | | | | | | |
| SUBTOTAL Total MISO Day 2 Charges | - \$ (12,726,244) \$ | (319,521,287.98) | - \$ 41,691,746 \$ | 2,408,818,016.99 | (40,707,167) \$ | (2,074,513,009.03) | - \$ 1,244,607.8 | 9 (13,710,823) \$ | (655,070,903.83) | - \$ | 2,650,732.35 | - \$ | |

x No longer reported in 1b, 5b, 13b, 22b
y No longer reported in 1c, 5c, 13c, 22c
z No longer used to offset the MISO billed energy amount in 1a, 5a, 13a, 22a

| January 2022 | NET I | NVOICE | | RET | TAIL | | | INTERSYSTE | M - ASSET BASE | D | IN | TERSYSTEM - N | ON-ASSET BAS | ED |
|--|---------|-------------------|------------|---------------|--------------|----------------|-----|--------------|----------------|-----------------|-----|---------------|--------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | | \$ (164,671.79) | \$ | - | \$ | 1,734.42 | | | | \$ (166,406.21) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | | \$ (164,772.45) | \$ | - | Ş | (32,617.85) | | | | \$ (132,154.60) | | | | |
| 3 Day-Ahead Supplemental Reserve | | \$ (9,014.52) | \$ | - | \$ | (5,742.87) | | | | \$ (3,271.65) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | | \$ (45,144.78) | \$ | 20,110.67 | \$ | 72,886.36 | | | | \$ (138,141.81) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | | \$ (190,151.79) | \$ | 52,509.45 | \$ | (242,661.24) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | | \$ (59,636.76) | \$ | 47,851.66 | \$ | (107,488.42) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | | \$ 4,765.14 | \$ | 8,054.57 | \$ | (3,289.43) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | | \$ (28,683.90) | \$ | 4,663.22 | \$ | (33,347.12) | | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (6,474) | \$ 51,469.61 | 39 \$ | (545.44) | (6,513) \$ | 52,015.05 | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 344,304 | \$ 7,140,746.06 | 771,151 \$ | 14,519,174.61 | (426,847) \$ | (7,378,428.55) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | | \$ (1,922,661.82) | \$ | 16,364.45 | \$ | (1,943,500.26) | | \$ 4,473.99 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | | \$ 145,077.50 | \$ | 145,077.50 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | | \$ 102,882.19 | s | 102,882.19 | \$ | - | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | | \$ 19,154.78 | s | 19,154.78 | \$ | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | | \$ 17,456.36 | \$ | 36,001.96 | \$ | (18,545.60) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | | \$ 46,932.35 | \$ | 25,614.25 | \$ | - | | \$ 21,318.10 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | | s - | S | | s | - | | | | S - | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | | \$ 271.70 | S | 212.24 | \$ | - | | | | \$ 59.46 | | | | |
| MISO ASM CHARGES | 337,830 | \$ 4,944,017.88 | 771,190 \$ | 14,997,126.11 | (433,360) \$ | (9,638,985.51) | - | \$ 25,792.09 | - | \$ (439,914.81) | - | ş - | - | \$ |
| x Net Congestion Amount | | \$ 788,846.39 | \$ | 788,846.39 | | | | \$ - | | | | | | |
| y Net Loss Amount | | \$ 130,433.58 | \$ | 130,433.58 | | | | \$ - | | | | | | |
| z Net Congestion and Loss Energy Offset | | \$ (919,279.97) | s | (919,279.97) | | | | | | 1 | l | | l | |
| SUBTOTAL | - | \$ - | - S | | - \$ | - | - | \$ - | | S - | - | S - | - | \$ |
| Total MISO ASM CHARGES | 337,830 | \$ 4,944,017.88 | 771,190 \$ | 14,997,126.11 | (433,360) \$ | (9,638,985.51) | - | \$ 25,792.09 | - | \$ (439,914.81) | - | S - | - | \$ |

x No longer reported in 7b, 8b
y No longer reported in 7c, 8c
z No longer used to offset the MISO billed energy amount in 7a, 8a

| February 2022 | NET I | NVOICE | | RET | 'AIL | | | INTERSYSTE | M - ASSET BASE | D | INTERSYSTEM | - NON-ASSET BAS | ED Page 2 of 13 |
|---|---------|-----------------------------------|------------|--------------|--------------|----------------|-------|--------------|----------------|-----------------|-------------|-----------------|-----------------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh Cost | MWh | Revenue |
| Procurement Charges | M WII | Net Cost | MWII | Cost | M W II | Revenue | NIWII | Cost | M WII | Revenue | MWII Cost | MWII | Revenue |
| 1 Day-Ahead Regulation Amount | | \$ (138,495.37) | e | | e | (50,426.88) | | | | \$ (88,068.49) | | | |
| 2 Day-Ahead Spinning Reserve Amount | | \$ (192,760.35) | 9 | - | 9 | (18,085.99) | | | | \$ (174,674.36) | | | |
| 3 Day-Ahead Supplemental Reserve | | \$ (192,760.33) \$ (19,120.98) | , | - | 9 | (12,707.99) | | | | \$ (6,412.99) | | | |
| 4 Day-Ahead Short Term Reserve Amount | | \$ (60,430.61) | , | 50.064.69 | 9 | (63,125.91) | | | | \$ (47,369.39) | | | |
| 5 Real-Time Regulation Amount (See Note 1) | | \$ (63,504.98) | 9 | 45,242.05 | 9 | (108,747.03) | | | | 9 (47,309.39) | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | | \$ (52,661.24) | , | 38,117.71 | 9 | (90,778.95) | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | | \$ (32,001.24) \$ 2,951.20 | 9 | 3,849,43 | 9 | (898.23) | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | | \$ 2,951.20 \$ 2,988.70 | 3 | 6,085.33 | 3 | (3.096.63) | | | | | | | |
| . , | | \$ 2,700.70 | ş | 0,063.33 | ş | (3,090.03) | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (1,597) | \$ 11,216.83 | 23 \$ | (116.63) | (1,621) \$ | 11,333.46 | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 46,309 | \$ 722,127.94 | 447,635 \$ | 8,271,724.72 | (401,326) \$ | (7,549,596.78) | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | | \$ 7,020.31 | \$ | 11,101.76 | Ş | (11,848.23) | | \$ 7,766.78 | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | | \$ 145,134.02 | \$ | 145,134.02 | \$ | - | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | | \$ 104,423.49 | S | 104,423.49 | \$ | - | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | | \$ 15,029.57 | \$ | 15,029.57 | \$ | - | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | | \$ 76,728.95 | \$ | 139,437.56 | \$ | (62,708.61) | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | | \$ 42,037.33 | S | 19,367.80 | \$ | - | | \$ 22,669.53 | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | | \$ 4,137.11 | s | 4,137.11 | \$ | - | | | | S - | | | |
| 15 Real Time Short Term Reserve Deployment Failure | | s - | s | | \$ | - | | | | S - | | | |
| MISO ASM CHARGES | 44,712 | \$ 606,821.92 | 447,658 \$ | 8,853,598.61 | (402,947) \$ | (7,960,687.77) | - | \$ 30,436.31 | - | \$ (316,525.23) | - \$ - | - | \$ - |
| x Net Congestion Amount | | \$ (119,931.61) | S | (119,931.61) | | | • | S - | | | | | |
| v Net Loss Amount | | \$ 40,093.71 | s | 40,093.71 | | | | S - | | | | | |
| Net Congestion and Loss Energy Offset | | \$ 79,837.90 | s | 79,837.90 | | | | - | | | | | |
| SUBTOTAL | - | S - | - S | - | - S | - | - | S - | - | S - | - S - | - | S - |
| Total MISO ASM CHARGES | 44,712 | \$ 606,821.92 | 447,658 \$ | 8,853,598.61 | (402,947) \$ | (7,960,687.77) | - | \$ 30,436.31 | - | \$ (316,525.23) | - \$ - | _ | \$ - |

- x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| March 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTE | M - ASSET BAS | ED | INTER | SYSTEM - N | ON-ASSET BAS | ED |
|--|-----------|--------------|------------|--------------|--------------|----------------|-----|--------------|---------------|---|-------|------------|--------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (148,111.43) | S | - | \$ | (93,703.31) | | | | \$ (54,408.12) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | S | (208,493.43) | \$ | - | \$ | (89,018.86) | | | | \$ (119,474.57) | | | | |
| 3 Day-Ahead Supplemental Reserve | S | (28,793.69) | s | - | \$ | (11,517.78) | | | | \$ (17,275.91) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | S | (77,469.70) | S | 21,684.41 | \$ | (53,858.40) | | | | \$ (45,295.71) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | S | (36,658.24) | s | 48,264.63 | \$ | (84,922.87) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | S | (52,177.28) | S | 39,525.56 | \$ | (91,702.84) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | S | 1,599.39 | S | 2,114.26 | \$ | (514.87) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | S | (2,065.95) | s | 4,532.04 | \$ | (6,597.99) | | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (606) \$ | 27,113.24 | 93 \$ | (585.47) | (699) \$ | 27,698.71 | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 30,072 \$ | 3,021,489.48 | 391,968 \$ | 7,108,395.84 | (361,896) \$ | (4,086,906.36) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | S | 13,224.60 | ş | 12,034.14 | \$ | (7,242.93) | | \$ 8,433.39 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 156,330.53 | S | 156,330.53 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | S | 154,236.36 | S | 154,236.36 | S | _ | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | S | 10,618.75 | S | 10,618.75 | s | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | S | 47,025.85 | S | 90,264.91 | S | (43,239.06) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 45,880,87 | S | 34,837.27 | S | - | | \$ 11,043.60 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | - | s | 440.23 | s | _ | | | | \$ (440,23) | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | I s | - | s | - | s | - | | | 1 | s (************************************ | | | | |
| MISO ASM CHARGES | 29,466 \$ | 2,923,749.35 | 392,061 \$ | 7,682,693.46 | (362,595) \$ | (4,541,526.56) | - | \$ 19,476.99 | - | \$ (236,894.54) | - S | - | - | \$ |
| Net Congestion Amount | S | (244,425.15) | S | (244,425.15) | | | | S - | 1 | | | | | |
| Net Loss Amount | s | (38,366.21) | s | (38,366.21) | | | | s - | 1 | | | | | |
| Net Congestion and Loss Energy Offset | I s | 282,791.36 | s | 282,791,36 | | | | 1 | I | | | | | |
| SUBTOTAL | - 8 | - | - S | - | - S | - | _ | S - | - | s - | - S | - | - | S - |
| Total MISO ASM CHARGES | 29.466 S | 2,923,749.35 | 392.061 S | 7.682.693.46 | (362,595) \$ | (4.541.526.56) | - | \$ 19,476,99 | | \$ (236.894.54) | - S | - | - | S |

- x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| April 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTE | M - ASSET BASI | ED | INTE | ERSYSTEM - N | NON-ASSET BAS | ED |
|--|------------|--------------|------------|--------------|--------------|----------------|-----|----------------|----------------|-----------------|------|--------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (248,040.09) | S | - | \$ | (144,491.03) | | | | \$ (103,549.06) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ | (369,817.64) | \$ | - | \$ | 66,540.05 | | | | \$ (436,357.69) | | | | |
| 3 Day-Ahead Supplemental Reserve | \$ | (30,446.14) | \$ | - | \$ | (17,875.81) | | | | \$ (12,570.33) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | s | (132,586.95) | s | 0.41 | \$ | 30,978.00 | | | | \$ (163,565.36) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | \$ | (27,791.44) | \$ | 99,461.74 | \$ | (127,253.18) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | \$ | (230,742.82) | \$ | 91,361.28 | \$ | (322,104.10) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | s | 4,860.88 | s | 5,254.98 | \$ | (394.10) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | \$ | (19,225.54) | \$ | 10,161.75 | \$ | (29,387.29) | | | | | | | | |
| Resource Energy Charges | | | | | | , | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (5,167) \$ | 85,273.13 | 58 S | (1,161.41) | (5,225) \$ | 86,434.54 | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | ` ` ` | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 93,984 \$ | 1,490,018.60 | 424,942 \$ | 4,309,093.09 | (330,959) \$ | (2,819,074.49) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | \$ | (18,847.42) | \$ | 22,669.02 | \$ | (28,870.72) | | \$ (12,645.72) | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 224,754.00 | S | 224,754.00 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | s | 231,564.74 | s | 231,564.74 | \$ | - | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | s | 22,856.56 | \$ | 22,856.56 | \$ | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | s | 144,746.18 | s | 145,334.29 | \$ | (588.11) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 37,534.66 | S | 13,982.44 | \$ | - | | \$ 23,552.22 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | - | s | - | \$ | - | | | | S - | | | 1 | 1 |
| 15 Real Time Short Term Reserve Deployment Failure | s | 7,028.70 | s | 984.90 | s | - | | | l | \$ 6,043.80 | | | | |
| MISO ASM CHARGES | 88,816 \$ | 1,171,139.41 | 425,000 \$ | 5,176,317.79 | (336,184) \$ | (3,306,086.24) | - | \$ 10,906.50 | - | \$ (709,998.64) | - \$ | - | - | \$ |
| x Net Congestion Amount | S | 562,216.26 | S | 562,216.26 | | | | \$ - | | | | | | |
| Net Loss Amount | s | 214,348.89 | \$ | 214,348.89 | | | | S - | 1 | | | | 1 | 1 |
| Net Congestion and Loss Energy Offset | s | (776,565.15) | \$ | (776,565.15) | | | | | | | | | 1 | 1 |
| SUBTOTAL | - S | | - S | - 1 | - \$ | - | - | \$ - | - | S - | - S | - | - | \$ |
| Total MISO ASM CHARGES | 88,816 \$ | 1,171,139.41 | 425,000 \$ | 5,176,317.79 | (336,184) \$ | (3,306,086.24) | - | \$ 10,906.50 | - | \$ (709,998.64) | - S | - | - | S |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| May 2022 | NET IN | VOICE | | RET | TAIL | | | INTERSYSTE | M - ASSET BASI | ED | INTE | RSYSTEM - N | NON-ASSET BAS | ED |
|--|------------|----------------|------------|----------------|--------------|-----------------|-----|----------------|----------------|-----------------|------|-------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (270,816.39) | \$ | - | \$ | (81,827.54) | | | | \$ (188,988.85) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | S | (343,047.30) | \$ | - | \$ | 16,986.08 | | | | \$ (360,033.38) | | | | |
| 3 Day-Ahead Supplemental Reserve | S | (43,170.88) | \$ | - | \$ | (2,593.05) | | | | \$ (40,577.83) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | S | (67,574.84) | \$ | 0.49 | \$ | 14,983.65 | | | | \$ (82,558.98) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | S | (85,259.62) | \$ | 133,583.10 | \$ | (218,842.72) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | S | (141,338.91) | \$ | 82,001.30 | \$ | (223,340.21) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | S | (6,545.99) | \$ | 21,053.95 | \$ | (27,599.94) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | S | (8,097.84) | \$ | 4,290.30 | \$ | (12,388.14) | | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (3,720) \$ | 128,285.38 | 117 \$ | (2,777.19) | (3,837) \$ | 131,062.57 | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 214,696 \$ | 488,497.91 | 516,277 \$ | 11,713,658.52 | (301,581) \$ | (11,225,160.61) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | S | (30,228.85) | \$ | 45,111.63 | \$ | (53,092.69) | | \$ (22,247.79) | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 241,752.01 | S | 241,752.01 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | S | 232,232.45 | S | 232,232.45 | s | - | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | s | 17,828.01 | s | 17,828.01 | s | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | S | 53,340.59 | S | 53,549.66 | \$ | (209.07) | | | | | | | | |
| enalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 35,864,85 | S | 20,677.28 | S | - | | \$ 15,187.57 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | - | s | - | s | _ | | | | S - | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | 23.12 | s | 23.12 | s | _ | | | | s - | | | | |
| MISO ASM CHARGES | 210,976 | | 516,394 \$ | 12,562,984.63 | (305,418) \$ | (11,682,021.67) | - | \$ (7,060.22) | - | \$ (672,159.04) | - S | - | - | \$ |
| Net Congestion Amount | S | (3,770,861.91) | S | (3,770,861.91) | | | | S - | | | | | | |
| Net Loss Amount | s | (427,757.52) | s | (427,757.52) | | | | s - | 1 | | | | | |
| Net Congestion and Loss Energy Offset | s | 4,198,619.43 | s | 4,198,619.43 | | | | 1 | l | | | | | |
| SUBTOTAL | - S | - | - S | .,, | - S | _ | _ | S - | - | S - | - S | _ | _ | S - |
| Total MISO ASM CHARGES | 210.976 S | 201.743.70 | 516.394 \$ | 12.562.984.63 | (305,418) \$ | (11.682.021.67) | - | \$ (7.060.22) | | S (672.159.04) | - S | | - | S |

- x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| June 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTEM | A - ASSET BASI | ED | INTE | RSYSTEM - N | NON-ASSET BAS | ED |
|--|------------|----------------|------------|----------------|--------------|-----------------|-----|----------------|----------------|-----------------|------|-------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (387,629.86) | \$ | - | \$ | (71,560.74) | | | | \$ (316,069.12) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ | (363,273.44) | \$ | - | \$ | (61,754.38) | | | | \$ (301,519.06) | | | | |
| 3 Day-Ahead Supplemental Reserve | s | (54,393.60) | \$ | - | \$ | (9,130.79) | | | | \$ (45,262.81) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | s | (79,805.32) | \$ | 0.66 | S | (3,707.04) | | | | \$ (76,098.94) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | s | (128,522.22) | \$ | 176,629.84 | \$ | (305,152.06) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | s | (92,491.91) | \$ | 65,316.03 | S | (157,807.94) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | s | (6,035.22) | \$ | 7,955.49 | S | (13,990.71) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | \$ | (849.36) | \$ | 2,319.22 | \$ | (3,168.58) | | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | , | | | |
| 7a Real Time Excessive Energy Amount | (2,256) \$ | (16,543.91) | 68 S | (1,351.16) | (2,323) \$ | (15,192.75) | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | , , , , | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 250,041 \$ | 6,449,303.01 | 600,096 \$ | 19,292,316.89 | (350,055) \$ | (12,843,013.88) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | s | (14,138.33) | \$ | 62,135.26 | s | (49,467.27) | | \$ (26,806.32) | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 173,210.40 | S | 173,210.40 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | s | 179,382.02 | S | 179,382.02 | S | - | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | s | 45,537.08 | s | 45,537.08 | s | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | s | 84,640.74 | S | 85,130.34 | s | (489.60) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 90,976.31 | S | 55,779.61 | S | - | | \$ 35,196.70 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | - | s | - | s | _ | | | | s - | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | 18.75 | s | - | s | _ | | | | \$ 18.75 | | | | |
| MISO ASM CHARGES | 247,785 \$ | 5,879,385.14 | 600,164 \$ | 20,144,361.68 | (352,378) \$ | (13,534,435.74) | - | \$ 8,390.38 | - | | - S | - | - | \$ |
| Net Congestion Amount | S | (1,317,934.47) | S | (1,317,934.47) | | | | S - | | | | | | |
| Net Loss Amount | S | 26,644.58 | s | 26,644.58 | | | | \$ - | | | | | | |
| Net Congestion and Loss Energy Offset | s | 1,291,289.89 | s | 1,291,289.89 | | | | 1 | | | | | | |
| SUBTOTAL | - S | - | - S | ,,= | - S | - | _ | S - | - | S - | - S | _ | - | S - |
| Total MISO ASM CHARGES | 247,785 \$ | 5,879,385.14 | 600.164 \$ | 20,144,361.68 | (352,378) \$ | (13,534,435.74) | - | \$ 8,390,38 | _ | \$ (738,931.18) | - S | - | - | S |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| July 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTE | M - ASSET BAS | ED | INTE | RSYSTEM - N | NON-ASSET BAS | ED |
|--|------------|----------------|------------|----------------|--------------|-----------------|-----|---------------|---------------|-----------------|------|-------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (385,722.15) | \$ | - | \$ | (92,831.27) | | | | \$ (292,890.88) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ | (125,315.68) | \$ | - | \$ | 7,740.74 | | | | \$ (133,056.42) | | | | |
| 3 Day-Ahead Supplemental Reserve | s | (95,667.64) | \$ | - | \$ | (70,403.19) | | | | \$ (25,264.45) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | s | (34,939.41) | \$ | 0.25 | \$ | (18,405.53) | | | | \$ (16,534.13) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | s | (97,816.95) | \$ | 283,051.02 | \$ | (380,867.97) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | \$ | (74,668.16) | \$ | 152,684.62 | \$ | (227,352.78) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | \$ | 105,789.17 | \$ | 128,299.88 | S | (22,510.71) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | S | 1,197.56 | Ş | 5,647.98 | \$ | (4,450.42) | | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (3,634) \$ | 15,118.64 | 50 \$ | (651.78) | (3,684) \$ | 15,770.42 | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 185,719 \$ | 10,120,815.97 | 514,779 \$ | 25,490,707.85 | (329,059) \$ | (15,369,891.88) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | S | 123,182.49 | \$ | 91,769.09 | \$ | (51,686.38) | | \$ 83,099.78 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | \$ | 179,333.48 | \$ | 179,333.48 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | S | 61,170.38 | S | 61,170.38 | S | - | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | \$ | 158,383.18 | \$ | 158,383.18 | \$ | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | \$ | 58,735.45 | \$ | 59,094.41 | S | (358.96) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 83,037.63 | S | 24,353.27 | \$ | - | | \$ 58,684.36 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | 3,929.16 | s | 3,929.16 | s | - | | | | S - | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | - | s | - | s | - | | 1 | | S - | | | | |
| MISO ASM CHARGES | 182,085 \$ | 10,096,563.12 | 514,828 \$ | 26,637,772.79 | (332,743) \$ | (16,215,247.93) | - | \$ 141,784.14 | - | \$ (467,745.88) | - \$ | - | - | \$ |
| Net Congestion Amount | S | (1,049,875.29) | S | (1,049,875.29) | | | • | S - | | | | | | |
| Net Loss Amount | s | (475,919.80) | s | (475,919.80) | | | | \$ - | | | | | | |
| Net Congestion and Loss Energy Offset | S | 1,525,795.09 | S | 1,525,795.09 | | | | 1 | | | | | | |
| SUBTOTAL | - S | - | - S | - | - S | - | - | S - | - | S - | - S | - | - | s - |
| Total MISO ASM CHARGES | 182.085 S | 10.096.563.12 | 514.828 \$ | 26,637,772.79 | (332,743) \$ | (16.215.247.93) | - | S 141.784.14 | | \$ (467,745,88) | - S | - | - | S |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| August 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTEM | M - ASSET BASE | :D | INTE | RSYSTEM - N | NON-ASSET BAS | ED |
|--|------------|----------------|------------|----------------|--------------|-----------------|-----|--------------|----------------|-----------------|------|-------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (253,746.35) | \$ | - | \$ | 5,396.22 | | | | \$ (259,142.57) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ | (155,482.31) | ş | - | \$ | 94,117.25 | | | | \$ (249,599.56) | | | | |
| 3 Day-Ahead Supplemental Reserve | \$ | (39,161.50) | ş | - | \$ | (57,511.83) | | | | \$ 18,350.33 | | | | |
| 4 Day-Ahead Short Term Reserve Amount | s | (24,990.47) | S | 0.71 | S | (10,383.25) | | | | \$ (14,607.93) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | \$ | (225,143.66) | ş | 138,033.17 | \$ | (363,176.83) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | \$ | (102,140.69) | s | 139,781.24 | \$ | (241,921.93) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | s | 76,077.64 | S | 96,942.33 | S | (20,864.69) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | \$ | (184.81) | ş | 5,443.34 | \$ | (5,628.15) | | | | | | | | |
| Resource Energy Charges | | | | | | , | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (1,362) \$ | (42,689.47) | 222 \$ | (1,871.11) | (1,584) \$ | (40,818.36) | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | ` ' | | , , , , , | `` | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 144,415 \$ | 7,408,023.66 | 481,741 \$ | 25,831,273.91 | (337,326) \$ | (18,423,250.25) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | \$ | (13,172.62) | ş | 29,157.66 | \$ | (49,573.47) | | \$ 7,243.19 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 162,246.14 | S | 162,246.14 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | s | 151,469.96 | S | 151,469.96 | s | - | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | s | 5,635.85 | S | 5,635.85 | \$ | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | s | 16,760.08 | S | 17,038.86 | S | (278.78) | | | | | | | | |
| Penalty Charges | | | , | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 99,463.36 | S | 37,834.74 | S | - | | \$ 61,628.62 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | 211,246.65 | s | 159,735.64 | s | _ | | , | | \$ 51,511.01 | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | - | s | - | s | _ | | | | S - | | | | |
| MISO ASM CHARGES | 143,053 \$ | 7,274,211.46 | 481,963 \$ | 26,772,722.44 | (338,911) \$ | (19,113,894.07) | - | \$ 68,871.81 | - | \$ (453,488.72) | - \$ | - | - | \$ |
| Net Congestion Amount | S | (1,218,423.75) | S | (1,218,423.75) | | | | S - | | | | | | |
| Net Loss Amount | s | (313,577.95) | s | (313,577.95) | | | | \$ - | | | | | | |
| Net Congestion and Loss Energy Offset | s | 1,532,001.70 | S | 1,532,001.70 | | | | | | | | | | |
| SUBTOTAL | - S | | - S | - / | - S | - | - | S - | - | S - | - S | - | - | \$ |
| Total MISO ASM CHARGES | 143.053 \$ | 7,274,211.46 | 481,963 S | 26,772,722.44 | (338,911) \$ | (19,113,894.07) | - | \$ 68.871.81 | - | \$ (453,488,72) | - S | - | - | S |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| September 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTE | M - ASSET BASI | ED | INTER | SYSTEM - N | NON-ASSET BAS | ED |
|--|------------|--------------|------------|---------------|--------------|-----------------|-----|--------------|----------------|-----------------|-------|------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (165,160.75) | S | - | \$ | 12,133.91 | | | | \$ (177,294.66) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ | (141,448.31) | \$ | - | \$ | (84,769.61) | | | | \$ (56,678.70) | | | | |
| 3 Day-Ahead Supplemental Reserve | \$ | (23,017.01) | \$ | - | \$ | (17,265.92) | | | | \$ (5,751.09) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | s | (20,544.25) | \$ | 0.62 | s | 2,136.72 | | | | \$ (22,681.59) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | \$ | (167,325.65) | \$ | 71,279.19 | \$ | (238,604.84) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | s | (10,003.08) | S | 53,858.31 | \$ | (63,861.39) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | s | 5,741.16 | \$ | 8,622.99 | s | (2,881.83) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | \$ | 1,861.69 | \$ | 3,636.99 | \$ | (1,775.30) | | | | | | | | |
| Resource Energy Charges | | | | | | , | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (2,074) S | (58,986.13) | 37 S | 68.29 | (2,110) \$ | (59,054.42) | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | , , , , | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 207,155 \$ | 9,564,632.50 | 482,341 \$ | 19,821,631.67 | (275,187) \$ | (10,256,999.17) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | \$ | 16,716.55 | \$ | 45,367.96 | \$ | (37,999.71) | | \$ 9,348.30 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 167,417.21 | S | 167,417.21 | \$ | - | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | s | 84,635.27 | S | 84,635.27 | s | - | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | s | 29,732.70 | \$ | 29,732.70 | \$ | - | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | s | 53,152.26 | \$ | 53,718.35 | S | (566.09) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 73,971.85 | S | 30,824.05 | \$ | - | | \$ 43,147.80 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | - | s | - | s | - | | | | s - | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | 82.94 | s | 76.47 | s | - | | 1 | | \$ 6.47 | | | | |
| MISO ASM CHARGES | 205,081 \$ | 9,411,458.95 | 482,378 \$ | 20,370,870.07 | (277,297) \$ | (10,749,507.65) | - | \$ 52,496.10 | - | \$ (262,399.57) | - \$ | - | - | \$ |
| Net Congestion Amount | \$ | (129,250.24) | \$ | (129,250.24) | | | | \$ - | | | | | | |
| Net Loss Amount | s | (68,544.08) | \$ | (68,544.08) | | | | \$ - | | | | | | |
| Net Congestion and Loss Energy Offset | s | 197,794.32 | s | 197,794.32 | | | | 1 | | | | | | |
| SUBTOTAL | - S | - | - S | - | - \$ | - | - | \$ - | - | S - | - S | - | - | \$ - |
| Total MISO ASM CHARGES | 205,081 \$ | 9,411,458.95 | 482,378 \$ | 20,370,870.07 | (277,297) \$ | (10,749,507.65) | - | \$ 52,496.10 | - | \$ (262,399.57) | - S | - | - | \$ - |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295 True-up Report Part B, Attachment 11 Page 10 of 13

| October 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTE | M - ASSET BAS | ED | INTE | RSYSTEM - N | NON-ASSET BAS | ED |
|--|------------|--------------|------------|---------------|--------------|----------------|-----|--------------|---------------|-----------------|------|-------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (169,858.02) | \$ | - | \$ | (72,803.17) | | | | \$ (97,054.85) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | S | (155,734.38) | ş | - | \$ | (50,830.73) | | | | \$ (104,903.65) | | | | |
| 3 Day-Ahead Supplemental Reserve | S | (15,467.08) | \$ | - | \$ | (6,466.49) | | | | \$ (9,000.59) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | S | (22,217.22) | S | 0.44 | \$ | (7,936.35) | | | | \$ (14,281.31) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | S | (40,046.19) | \$ | 96,775.26 | \$ | (136,821.45) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | S | (12,359.17) | S | 93,144.62 | \$ | (105,503.79) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | S | 2,601.55 | s | 2,955.43 | \$ | (353.88) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | S | 3,268.49 | \$ | 4,943.20 | \$ | (1,674.71) | | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (5,925) \$ | 119,747.19 | 39 \$ | 91,671.89 | (5,963) \$ | 28,075.30 | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 232,601 \$ | 6,900,860.11 | 502,040 \$ | 14,672,973.87 | (269,439) \$ | (7,772,113.76) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | S | 13,454.16 | \$ | 21,002.55 | \$ | (15,022.77) | | \$ 7,474.38 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 168,580.43 | S | 168,647.61 | \$ | (67.18) | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | S | 178,758.16 | S | 179,561.87 | S | (803.71) | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | S | 22,145.93 | s | 22,635.21 | s | (489.28) | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | S | 26,523.16 | S | 27,133.67 | \$ | (610.51) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 61,455.34 | S | 38,360.58 | S | (41.41) | | \$ 23,136.17 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | l s | - , | s | | s | | | | I | s - | 1 | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | 5.852.90 | s | 4.189.63 | s | - | | | 1 | \$ 1,663,27 | | | | |
| MISO ASM CHARGES | 226,676 \$ | | 502,078 \$ | 15,423,995.83 | (275,402) \$ | (8,143,463.89) | - | \$ 30,610.55 | - | \$ (223,577.13) | - S | - | - | S |
| Net Congestion Amount | S | (337,782.81) | S | (337,782.81) | | | | S - | 1 | | | | | |
| Net Loss Amount | s | 53,067.95 | s | 53,067.95 | | | | s - | 1 | | | | | |
| Net Congestion and Loss Energy Offset | l s | 284.714.86 | s | 284,714.86 | | | | | I | | 1 | | | |
| SUBTOTAL | - S | - | - S | - 1,121100 | - S | - | _ | s - | - | S - | - S | - | - | S |
| Total MISO ASM CHARGES | 226.676 S | 7.087.565.36 | 502.078 \$ | 15,423,995,83 | (275,402) \$ | (8.143.463.89) | - | \$ 30,610,55 | | \$ (223,577.13) | - S | | - | S |

- x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| November 2022 | NET IN | VOICE | | RET | AIL | | | INTERSYSTE | M - ASSET BASI | ED | INTE | RSYSTEM - N | NON-ASSET BAS | ED |
|--|------------|--------------|------------|---------------|--------------|----------------|-----|---------------|----------------|-----------------|------|-------------|---------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (152,308.53) | \$ | - | \$ | (79,693.67) | | | | \$ (72,614.86) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ | (290,932.16) | \$ | - | \$ | (48,896.01) | | | | \$ (242,036.15) | | | | |
| 3 Day-Ahead Supplemental Reserve | s | (15,535.56) | \$ | - | \$ | (10,115.48) | | | | \$ (5,420.08) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | s | (57,263.97) | \$ | 0.54 | \$ | 13,738.16 | | | | \$ (71,002.67) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | \$ | (71,418.55) | \$ | 34,193.67 | \$ | (105,612.22) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | s | (84,335.71) | \$ | 68,054.82 | \$ | (152,390.53) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | s | 13,463.47 | \$ | 16,461.74 | \$ | (2,998.27) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | \$ | (3,642.98) | \$ | 22,766.87 | \$ | (26,409.85) | | | | | | | | |
| Resource Energy Charges | | | | | | , | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (1,639) \$ | 17,855.08 | 1,394 \$ | 20,317.55 | (3,033) \$ | (2,462.47) | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 257,360 \$ | 5,644,725.13 | 576,299 \$ | 12,606,671.52 | (318,939) \$ | (6,961,946.39) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | \$ | (6,290.68) | \$ | 8,567.09 | \$ | (12,235.98) | | \$ (2,621.79) | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 158,879.29 | \$ | 158,860.49 | \$ | 18.80 | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | s | 224,083.74 | S | 226,910.95 | s | (2,827.21) | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | s | 7,150.09 | \$ | 7,676.74 | \$ | (526.65) | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | s | 80,409.22 | \$ | 82,291.30 | \$ | (1,882.08) | | | | | | | | |
| Penalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | \$ | 37,749.09 | S | 24,968.85 | \$ | (569.50) | | \$ 13,349.74 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | 125.90 | s | 125.90 | \$ | - | | | | S - | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | 1,910.03 | s | 1,765.72 | \$ | - | | | | \$ 144.31 | | | | |
| MISO ASM CHARGES | 255,721 \$ | 5,504,622.90 | 577,692 \$ | 13,279,633.75 | (321,971) \$ | (7,394,809.35) | - | \$ 10,727.95 | - | \$ (390,929.45) | - Ş | - | - | \$ |
| Net Congestion Amount | S | (939,845.33) | S | (939,845.33) | | | | \$ - | | | | | | |
| Net Loss Amount | s | (92,186.09) | \$ | (92,186.09) | | | | \$ - | | | | | | |
| Net Congestion and Loss Energy Offset | s | 1,032,031.42 | \$ | 1,032,031.42 | | | | | | | | | | |
| SUBTOTAL | - S | - | - \$ | - | - \$ | - | - | \$ - | | S - | - S | - | - | \$ |
| Total MISO ASM CHARGES | 255,721 \$ | 5,504,622.90 | 577,692 \$ | 13,279,633.75 | (321,971) \$ | (7,394,809.35) | - | \$ 10,727,95 | - | \$ (390,929.45) | - S | - | - | S |

x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| December 2022 | NET INV | OICE | | RET | AIL | | | INTERSYSTE | M - ASSET BASE | :D | INTER | SYSTEM - N | ON-ASSET BAS | ED |
|--|--------------|-----------------|------------|----------------|--------------|-----------------|-----|--------------|----------------|-------------------|-------|------------|--------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | S | (249,550.24) | \$ | - | \$ | 287,146.11 | | | | \$ (536,696.35) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | \$ | (257,324.17) | \$ | - | \$ | 1,015,675.83 | | | | \$ (1,273,000.00) | | | | |
| 3 Day-Ahead Supplemental Reserve | s | (99,883.02) | \$ | - | \$ | (3,025.52) | | | | \$ (96,857.50) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | S | (272,405.85) | \$ | 9.25 | \$ | 705,871.18 | | | | \$ (978,286.28) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | \$ | (576,602.84) | \$ | 102,280.84 | \$ | (678,883.68) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | s | (1,379,113.30) | \$ | 284,299.76 | \$ | (1,663,413.06) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | \$ | 135,299.24 | \$ | 866,552.45 | \$ | (731,253.21) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | \$ | (629,124.22) | \$ | 147,781.42 | \$ | (776,905.64) | | | | | | | | |
| desource Energy Charges | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (1,447) \$ | (10,754.75) | 370 \$ | (307.65) | (1,816) \$ | (10,447.10) | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | (217,245) \$ | (10,707,366.47) | 395,850 \$ | 17,518,308.71 | (613,096) \$ | (28,225,675.18) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | Ş | 39,991.15 | \$ | 107,069.73 | \$ | (118,012.63) | | \$ 50,934.05 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | S | 171,280.59 | S | 171,293.56 | \$ | (12.97) | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | S | 183,323.99 | \$ | 183,979.30 | \$ | (655.31) | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | S | (9,191.33) | \$ | 5,029.48 | \$ | (14,220.81) | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | S | 657,892.39 | \$ | 751,426.23 | \$ | (93,533.84) | | | | | | | | |
| enalty Charges | | | | | , | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 284,716.90 | S | 236,574.79 | \$ | (47.17) | | \$ 48,189.28 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | s | 83,197.61 | s | 59,086.06 | s | - " | | | | \$ 24,111.55 | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | s | 2,440.50 | s | | s | - | | | l | \$ 2,440.50 | | | l | |
| MISO ASM CHARGES | (218,692) \$ | (12,633,173.82) | 396,220 \$ | 20,433,383.93 | (614,912) \$ | (30,307,393.00) | - | \$ 99,123.33 | - | \$ (2,858,288.08) | - S | - | - | \$ |
| Net Congestion Amount | S | (1,132,268.97) | S | (1,132,268.97) | | | | S - | | | | · | | |
| Net Loss Amount | s | 101,965.16 | s | 101,965.16 | | | | S - | | | | | | |
| Net Congestion and Loss Energy Offset | s | 1.030.303.81 | s | 1.030.303.81 | | | | - | 1 | | | | | |
| SUBTOTAL | - S | - | - S | - | - S | - | - | S - | - | S - | - S | - | - | S |
| Total MISO ASM CHARGES | (218.692) S | (12,633,173.82) | 396,220 S | 20,433,383.93 | (614,912) \$ | (30,307,393.00) | _ | \$ 99,123,33 | _ | S (2.858.288.08) | - S | | | 9 |

x No longer reported in 7b, 8b
y No longer reported in 7c, 8c
z No longer used to offset the MISO billed energy amount in 7a, 8a

Docket No. E002/AA-21-295 True-up Report Part B, Attachment 11 Page 13 of 13

| January - December 2022 | NET INV | OICE | | RET | AIL | | | INTERSYSTEM | I - ASSET BASE | ED | INTERS | YSTEM - N | ON-ASSET BAS | ED |
|--|--------------|----------------|--------------|----------------|----------------|------------------|-----|---------------|----------------|-------------------|--------|-----------|--------------|---------|
| Posting Account Description | MWh | Net Cost | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue | MWh | Cost | MWh | Revenue |
| Procurement Charges | | | | | | | | | | | | | | |
| 1 Day-Ahead Regulation Amount | \$ | (2,734,110.97) | \$ | - | \$ | (380,926.95) | | | | \$ (2,353,184.02) | | | | |
| 2 Day-Ahead Spinning Reserve Amount | S | (2,768,401.62) | \$ | - | \$ | 815,086.52 | | | | \$ (3,583,488.14) | | | | |
| 3 Day-Ahead Supplemental Reserve | S | (473,671.62) | \$ | - | \$ | (224,356.72) | | | | \$ (249,314.90) | | | | |
| 4 Day-Ahead Short Term Reserve Amount | \$ | (895,373.37) | \$ | 91,873.14 | \$ | 683,177.59 | | | | \$ (1,670,424.10) | | | | |
| 5 Real-Time Regulation Amount (See Note 1) | S | (1,710,242.13) | \$ | 1,281,303.96 | \$ | (2,991,546.09) | | | | | | | | |
| 6 Real-Time Spinning Reserve Amount (See Note 1) | \$ | (2,291,669.03) | \$ | 1,155,996.91 | \$ | (3,447,665.94) | | | | | | | | |
| 7 Real-Time Supplemental Reserve Amount. (See Note 1) | \$ | 340,567.63 | \$ | 1,168,117.50 | \$ | (827,549.87) | | | | | | | | |
| 8 Real-Time Short Term Reserve Amount. (See Note 1) | S | (682,558.16) | \$ | 222,271.66 | \$ | (904,829.82) | | | | | | | | |
| Resource Energy Charges | | | | | | | | | | | | | | |
| 7a Real Time Excessive Energy Amount | (35,901) \$ | 327,104.84 | 2,508 \$ | 102,689.89 | (38,408) \$ | 224,414.95 | | | | | | | | |
| 7b Real Time Excessive Energy Congestion | | | | | | | | | | | | | | |
| 7c Real Time Excessive Energy Loss | | | | | | | | | | | | | | |
| 8a Real Time Non Excessive Energy Amount | 1,789,410 \$ | 48,243,873.90 | 6,105,119 \$ | 181,155,931.20 | (4,315,709) \$ | (132,912,057.30) | | | | | | | | |
| 8b Real Time Non Excessive Energy Congestion | | | | | | | | | | | | | | |
| 8c Real Time Non Excessive Energy Loss | | | | | | | | | | | | | | |
| 9 Real Time Net Regulation Adjustment Amount | \$ | (1,791,750.46) | \$ | 472,350.34 | \$ | (2,378,553.04) | | \$ 114,452.24 | | | | | | |
| Cost Distribution Charges | | | | | | | | | | | | | | |
| 10 Real Time Regulation Reserve Cost Distribution Amount | \$ | 2,093,995.60 | \$ | 2,094,056.95 | \$ | (61.35) | | | | | | | | |
| 11 Real Time Spinning Reserve Cost Distribution | s | 1,888,162.75 | S | 1,892,448.98 | s | (4,286.23) | | | | | | | | |
| 12 Real Time Supplemental Reserve Cost Distribution | \$ | 344,881.17 | \$ | 360,117.91 | \$ | (15,236.74) | | | | | | | | |
| 13 Real Time Short Term Reserve Cost Distribution | \$ | 1,317,411.23 | \$ | 1,540,421.54 | \$ | (223,010.31) | | | | | | | | |
| enalty Charges | | | | | | | | | | | | | | |
| 13 Real Time Excessive/Deficient Energy Deployment | S | 939,620.54 | S | 563,174.93 | \$ | (658.08) | | \$ 377,103.69 | | | | | | |
| 14 Real Time Contingency Reserve Deployment Failure | S | 302,636.43 | s | 227,454.10 | \$ | - | | | | \$ 75,182.33 | | | | |
| 15 Real Time Short Term Reserve Deployment Failure | S | 17,628.64 | s | 7,252.08 | \$ | - | | | | \$ 10,376.56 | | | | |
| MISO ASM CHARGES | 1,753,510 \$ | 42,468,105.37 | 6,107,627 \$ | 192,335,461.09 | (4,354,117) \$ | (142,588,059.38) | - | \$ 491,555.93 | - | \$ (7,770,852.27) | - \$ | - | - | \$ |
| Net Congestion Amount | S | (8,909,536.88) | S | (8,909,536.88) | | | • | S - | • | | | | • | |
| Net Loss Amount | S | (849,797.78) | s | (849,797.78) | | | | \$ - | | | | | | |
| Net Congestion and Loss Energy Offset | S | 9,759,334.66 | s | 9,759,334.66 | | | | - | | | | | | |
| SUBTOTAL | - S | - | - S | | - S | - | - | S - | - | S - | - S | - | - | S |
| Total MISO ASM CHARGES | 1,753,510 \$ | 42,468,105.37 | 6,107,627 \$ | 192.335.461.09 | (4,354,117) \$ | (142.588.059.38) | - | \$ 491,555.93 | - | \$ (7,770,852.27) | - S | - | - | S |

- x No longer reported in 7b, 8b
 y No longer reported in 7c, 8c
 z No longer used to offset the MISO billed energy amount in 7a, 8a

| Date | ASM Market Run Cost | | ASM Market Savings | Savings % | Cont Reserve Depl Failure Charge | Excessive/D eficient Energy Charge | Net Regulation Adjust Charge | DA Admin | RT Admin | ASM Admin (10.00%) | Net Savings |
|-----------|------------------------|-----------|-----------------------|-----------|--|---|---------------------------------------|----------|----------|-----------------------|-------------|
| 1/1/2022 | 2,146,670 | 2,164,360 | 17,690 | 0.82% | 0 | 369 | -14 | 7,634 | 1,110 | 874 | 16,461 |
| 1/2/2022 | 2,999,790 | 3,007,470 | 7,680 | 0.26% | 0 | 914 | 1,046 | 9,281 | 1,756 | 1,104 | 4,616 |
| 1/3/2022 | 2,195,160 | 2,204,580 | 9,420 | 0.43% | 0 | 2,853 | 316 | 7,349 | 1,529 | 888 | 5,363 |
| 1/4/2022 | 1,388,770 | 1,387,380 | -1,390 | -0.10% | 0 | 475 | 280 | 5,781 | 1,599 | 738 | (2,883) |
| 1/5/2022 | 1,602,190 | 1,620,760 | 18,570 | 1.15% | 0 | 594 | 137 | 5,793 | 631 | 642 | 17,196 |
| 1/6/2022 | 3,684,260 | 3,688,690 | 4,430 | 0.12% | 0 | 2,817 | 344 | 8,887 | 1,818 | 1,071 | 198 |
| 1/7/2022 | 3,615,990 | 3,619,690 | 3,700 | 0.10% | 0 | 1,316 | -1,268 | 9,799 | 2,199 | 1,200 | 2,452 |
| 1/8/2022 | 1,644,330 | 1,645,740 | 1,410 | 0.09% | 0 | 71 | 196 | 6,678 | 693 | 737 | 406 |
| 1/9/2022 | 2,226,770 | 2,230,380 | 3,610 | 0.16% | 0 | 3,361 | 142 | 7,750 | 259 | 801 | (693) |
| 1/10/2022 | 3,467,810 | 3,464,490 | -3,320 | -0.10% | 0 | 1,013 | 1,664 | 10,527 | 364 | 1,089 | (7,086) |
| 1/11/2022 | 2,140,840 | 2,140,530 | -310 | -0.01% | 0 | 370 | -328 | 7,349 | 622 | 797 | (1,149) |
| 1/12/2022 | 2,582,450 | 2,585,490 | 3,040 | 0.12% | 0 | 512 | -211 | 8,802 | 810 | 961 | 1,778 |
| 1/13/2022 | 2,532,370 | 2,534,000 | 1,630 | 0.06% | 0 | 1,175 | 444 | 8,769 | 329 | 910 | (898) |
| 1/14/2022 | 2,468,430 | 2,471,630 | 3,200 | 0.13% | 0 | 442 | 973 | 8,301 | 147 | 845 | 941 |
| 1/15/2022 | 2,470,440 | 2,474,670 | 4,230 | 0.17% | 0 | 1,250 | 121 | 8,452 | 465 | 892 | 1,968 |
| 1/16/2022 | 1,279,030 | 1,296,460 | 17,430 | 1.34% | 0 | 218 | 127 | 6,046 | 607 | 665 | 16,419 |
| 1/17/2022 | 3,015,520 | 3,015,040 | -480 | -0.02% | 0 | 1,507 | 1,972 | 9,282 | 581 | 986 | (4,946) |
| 1/18/2022 | 2,024,800 | 2,025,270 | 470 | 0.02% | 0 | 518 | -1,271 | 7,287 | 1,627 | 891 | 331 |
| 1/19/2022 | 2,035,850 | 2,036,210 | 360 | 0.02% | 0 | 413 | 23 | 6,832 | 640 | 747 | (823) |
| 1/20/2022 | 4,192,790 | 4,195,350 | 2,560 | 0.06% | 0 | 1,204 | 195 | 10,751 | 954 | 1,170 | (10) |
| 1/21/2022 | 1,901,800 | 1,902,770 | 970 | 0.05% | 0 | 1,745 | 8 | 7,520 | 840 | 836 | (1,619) |
| 1/22/2022 | 2,700,750 | 2,703,450 | 2,700 | 0.10% | 0 | 1,560 | -975 | 9,001 | 1,241 | 1,024 | 1,091 |
| 1/23/2022 | 2,695,860 | 2,696,550 | 690 | 0.03% | 0 | 2,244 | 376 | 9,276 | 785 | 1,006 | (2,937) |
| 1/24/2022 | 2,374,730 | 2,375,640 | 910 | 0.04% | 0 | 715 | -93 | 7,534 | 525 | 806 | (518) |
| 1/25/2022 | 3,368,020 | 3,370,930 | 2,910 | 0.09% | 0 | 181 | 675 | 9,335 | 769 | 1,010 | 1,043 |
| 1/26/2022 | 2,429,900 | 2,429,650 | -250 | -0.01% | 0 | 1,305 | -21 | 7,229 | 818 | 805 | (2,338) |
| 1/27/2022 | 1,974,680 | 1,975,130 | 450 | 0.02% | 0 | 679 | 242 | 6,223 | 293 | 652 | (1,122) |
| 1/28/2022 | 3,763,770 | 3,764,910 | 1,140 | 0.03% | 0 | 1,794 | 485 | 10,830 | 795 | 1,163 | (2,302) |
| 1/29/2022 | 1,661,500 | 1,661,160 | -340 | -0.02% | 0 | 610 | 231 | 6,823 | 262 | 709 | (1,890) |
| 1/30/2022 | 2,899,120 | 2,904,310 | 5,190 | 0.18% | 0 | 2,944 | 342 | 8,878 | 683 | 956 | 948 |
| 1/31/2022 | 1,872,150 | 1,893,710 | 21,560 | 1.14% | 0 | 4,033 | 7,210 | 7,262 | 1,114 | 838 | 9,480 |
| 2/1/2022 | 1,758,030 | 1,769,630 | 11,600 | 0.66% | 0 | 980 | 7 | 4,906 | 667 | 557 | 10,056 |
| 2/2/2022 | 1,668,430 | 1,692,400 | 23,970 | 1.42% | 0 | 850 | -15 | 4,873 | 16 | 489 | 22,646 |
| 2/3/2022 | 1,694,490 | 1,722,340 | 27,850 | 1.62% | 0 | 6 | -18 | 4,891 | 53 | 494 | 27,368 |
| 2/4/2022 | 3,001,710 | 3,005,850 | 4,140 | 0.14% | 0 | 1,462 | -503 | 6,440 | 722 | 716 | 2,465 |
| 2/5/2022 | 1,956,490 | 1,974,380 | 17,890 | 0.91% | 0 | 158 | 13 | 4,863 | 169 | 503 | 17,216 |
| 2/6/2022 | 1,618,680 | 1,621,380 | 2,700 | 0.17% | 0 | 1,272 | 574 | 4,278 | 41 | 432 | 422 |
| 2/7/2022 | 3,386,560 | 3,410,940 | 24,380 | 0.71% | 0 | 4,743 | -429 | 6,669 | 251 | 692 | 19,374 |

| | | | | | Cont Reserve | Excessive/D eficient | Net Regulation | | | | |
|-----------|------------|---------------|------------|--------|--------------|----------------------|-------------------|----------|----------|-----------|-------------|
| | ASM Market | Self Schedule | ASM Market | | Depl Failure | Energy | Adjust | | | ASM Admin | |
| Date | Run Cost | Run Cost | Savings | | Charge | Charge | Charge | DA Admin | RT Admin | (10.00%) | Net Savings |
| 2/8/2022 | | 1,049,190 | 12,070 | 1.15% | 0 | | | - , - | 46 | | • |
| 2/9/2022 | | 1,056,220 | 12,910 | 1.22% | 0 | | 24 | | 118 | | 12,475 |
| 2/10/2022 | | 1,577,910 | 7,940 | 0.50% | 0 | , | 41 | 3,847 | 218 | | , |
| 2/11/2022 | | 759,850 | 17,480 | 2.30% | 0 | | -50 | | 72 | | 17,205 |
| 2/12/2022 | | 3,170,110 | 13,410 | 0.42% | 0 | | 491 | 6,320 | 1,168 | 749 | 11,258 |
| 2/13/2022 | , , | 2,881,440 | 11,400 | 0.40% | 0 | -, | -392 | | 737 | 728 | · · |
| 2/14/2022 | | 3,012,820 | 300 | 0.01% | 0 | | 709 | | 739 | 730 | (1,863) |
| 2/15/2022 | | 2,176,110 | 4,630 | 0.21% | 0 | | -516 | | 150 | 549 | 3,387 |
| 2/16/2022 | | 1,678,140 | -19,100 | -1.14% | 0 | | -9 | · · | 299 | 481 | (19,655) |
| 2/17/2022 | 2,727,550 | 2,702,890 | -24,660 | -0.91% | 0 | 1,474 | 1,165 | 6,021 | 173 | 619 | (27,919) |
| 2/18/2022 | 1,395,150 | 1,371,900 | -23,250 | -1.69% | 0 | | 585 | | 78 | 427 | (24,437) |
| 2/19/2022 | 1,429,330 | 1,436,570 | 7,240 | 0.50% | 0 | 1,197 | -505 | | 304 | 450 | 6,098 |
| 2/20/2022 | • | 796,240 | 11,480 | 1.44% | 0 | 132 | 295 | | 113 | 329 | 10,725 |
| 2/21/2022 | 1,452,660 | 1,450,500 | -2,160 | -0.15% | 0 | 155 | 641 | 3,936 | 358 | 429 | (3,386) |
| 2/22/2022 | 2,106,930 | 2,106,600 | -330 | -0.02% | 0 | 39 | 1,732 | 5,085 | 195 | 528 | |
| 2/23/2022 | 3,489,850 | 3,489,580 | -270 | -0.01% | 0 | 1,502 | 3,172 | 6,735 | 220 | 696 | (5,640) |
| 2/24/2022 | 3,893,710 | 3,897,630 | 3,920 | 0.10% | 0 | 616 | 1,371 | 7,415 | 331 | 775 | 1,158 |
| 2/25/2022 | 3,591,250 | 3,593,230 | 1,980 | 0.06% | 0 | 871 | 1,344 | 6,786 | 169 | 695 | (931) |
| 2/26/2022 | 1,096,940 | 1,101,380 | 4,440 | 0.40% | 0 | 169 | 168 | 3,768 | 98 | 387 | 3,717 |
| 2/27/2022 | 2,225,410 | 2,228,170 | 2,760 | 0.12% | 0 | 523 | 2,817 | 5,218 | 326 | 554 | (1,135) |
| 2/28/2022 | 1,532,220 | 1,535,160 | 2,940 | 0.19% | 0 | 1,938 | 184 | 4,214 | 39 | 425 | 393 |
| 3/1/2022 | 2,838,660 | 2,845,650 | 6,990 | 0.25% | 0 | 54 | 154 | 10,186 | 235 | 1,042 | 5,740 |
| 3/2/2022 | 2,229,980 | 2,230,500 | 520 | 0.02% | 0 | 3,172 | 2,964 | 9,067 | 136 | 920 | (6,536) |
| 3/3/2022 | 2,448,580 | 2,454,130 | 5,550 | 0.23% | 0 | 162 | -177 | 9,137 | 485 | 962 | 4,603 |
| 3/4/2022 | 1,179,940 | 1,199,350 | 19,410 | 1.62% | 0 | 970 | -109 | 6,441 | 205 | 665 | 17,884 |
| 3/5/2022 | 956,380 | 972,270 | 15,890 | 1.63% | 0 | 914 | -258 | 5,924 | 102 | 603 | 14,631 |
| 3/6/2022 | 777,270 | 799,590 | 22,320 | 2.79% | 0 | 0 | 71 | 5,326 | 56 | 538 | 21,710 |
| 3/7/2022 | 1,520,960 | 1,534,410 | 13,450 | 0.88% | 0 | 1,126 | 13 | 6,860 | 436 | 730 | 11,582 |
| 3/8/2022 | 980,560 | 1,002,720 | 22,160 | 2.21% | 0 | 418 | 552 | 5,613 | 655 | 627 | 20,563 |
| 3/9/2022 | 1,289,150 | 1,311,460 | 22,310 | 1.70% | 0 | 517 | 8 | 6,565 | 976 | 754 | 21,031 |
| 3/10/2022 | 2,297,340 | 2,299,040 | 1,700 | 0.07% | 0 | 1,266 | 438 | | 620 | 901 | (905) |
| 3/11/2022 | | 744,340 | 17,910 | 2.41% | 0 | | 125 | 5,077 | 175 | 525 | 17,031 |
| 3/12/2022 | | 1,874,870 | 17,860 | 0.95% | 0 | | 265 | | 298 | | |
| 3/13/2022 | | 1,710,010 | 9,980 | 0.58% | 0 | | -539 | | 187 | 758 | |
| 3/14/2022 | 1,914,190 | 1,919,220 | 5,030 | 0.26% | 0 | | -93 | 7,927 | 500 | 843 | 3,797 |
| 3/15/2022 | 1,631,060 | 1,643,950 | 12,890 | 0.78% | 0 | | 74 | | 125 | 729 | 11,989 |
| 3/16/2022 | | 764,680 | 18,530 | 2.42% | 0 | | 156 | | -11 | 515 | |
| 3/17/2022 | 1,240,760 | 1,264,410 | 23,650 | 1.87% | 0 | 54 | -795 | | 77 | 630 | |

| | | | | | Cont Reserve | Excessive/D eficient | Net Regulation | | | | |
|-----------|------------|---------------|------------|--------|--------------|----------------------|-------------------|----------|----------|-----------|-------------|
| | ASM Market | Self Schedule | ASM Market | | Depl Failure | Energy | Adjust | | | ASM Admin | |
| Date | Run Cost | Run Cost | Savings | | Charge | Charge | Charge | DA Admin | RT Admin | (10.00%) | Net Savings |
| 3/18/2022 | | 1,075,110 | 16,370 | 1.52% | 0 | | 12 | , | 131 | 600 | · · |
| 3/19/2022 | | 1,710,440 | 5,340 | 0.31% | 0 | 326 | | | 223 | | 4,533 |
| 3/20/2022 | | 950,150 | 15,390 | 1.62% | 0 | 2 | | , | 32 | | 14,777 |
| 3/21/2022 | 820,390 | 843,150 | 22,760 | 2.70% | 0 | 243 | 820 | 5,463 | 113 | 558 | 21,140 |
| 3/22/2022 | 748,270 | 768,250 | 19,980 | 2.60% | 0 | 4 | 85 | | 309 | 462 | |
| 3/23/2022 | , | 828,850 | 20,150 | 2.43% | 0 | 6 | 5 | | 208 | 588 | , |
| 3/24/2022 | 1,336,180 | 1,361,220 | 25,040 | 1.84% | 0 | 271 | 20 | 6,707 | 519 | 723 | |
| 3/25/2022 | 580,940 | 611,000 | 30,060 | 4.92% | 0 | 0 | 0 | | -141 | 478 | |
| 3/26/2022 | 759,410 | 782,660 | 23,250 | 2.97% | 0 | 103 | 0 | 5,123 | 229 | 535 | , |
| 3/27/2022 | 2,218,120 | 2,234,320 | 16,200 | 0.73% | 0 | 1,808 | -305 | 7,888 | 215 | 810 | 13,886 |
| 3/28/2022 | 1,698,950 | 1,714,970 | 16,020 | 0.93% | 0 | 3,083 | 233 | 7,497 | 190 | 769 | 11,935 |
| 3/29/2022 | 1,345,740 | 1,359,560 | 13,820 | 1.02% | 0 | 121 | 41 | 6,748 | 190 | 694 | 12,964 |
| 3/30/2022 | 1,272,210 | 1,284,050 | 11,840 | 0.92% | 0 | 161 | -240 | 6,285 | 131 | 642 | 11,277 |
| 3/31/2022 | 1,684,480 | 1,705,930 | 21,450 | 1.26% | 0 | 1,837 | -494 | 6,908 | 239 | 715 | 19,392 |
| 4/1/2022 | 2,196,240 | 2,203,380 | 7,140 | 0.32% | 0 | 4,534 | -3,640 | 8,129 | 243 | 837 | 5,409 |
| 4/2/2022 | 2,072,830 | 2,082,290 | 9,460 | 0.45% | 0 | 508 | -971 | 7,811 | 264 | 807 | 9,115 |
| 4/3/2022 | 1,596,580 | 1,601,140 | 4,560 | 0.28% | 0 | 410 | -189 | 6,830 | 199 | 703 | 3,636 |
| 4/4/2022 | 2,070,000 | 2,077,400 | 7,400 | 0.36% | 0 | 3,420 | 366 | 7,552 | 286 | 784 | 2,831 |
| 4/5/2022 | 791,470 | 799,920 | 8,450 | 1.06% | 0 | 399 | -34 | 5,156 | -4 | 515 | 7,570 |
| 4/6/2022 | 715,720 | 723,810 | 8,090 | 1.12% | 0 | 1,388 | -1,687 | 5,222 | -43 | 518 | 7,872 |
| 4/7/2022 | 896,230 | 883,590 | -12,640 | -1.43% | 0 | 22 | -92 | 5,484 | 87 | 557 | (13,127) |
| 4/8/2022 | 1,018,070 | 1,007,010 | -11,060 | -1.10% | 0 | 77 | 157 | 5,497 | 81 | 558 | (11,852) |
| 4/9/2022 | 1,326,440 | 1,350,170 | 23,730 | 1.76% | 0 | 611 | -74 | 5,917 | 34 | 595 | 22,597 |
| 4/10/2022 | 584,210 | 623,050 | 38,840 | 6.23% | 0 | 0 | 0 | 4,767 | -113 | 465 | 38,375 |
| 4/11/2022 | 2,731,710 | 2,750,710 | 19,000 | 0.69% | 0 | 4,621 | -5,970 | 7,949 | 351 | 830 | 19,519 |
| 4/12/2022 | 819,280 | 862,980 | 43,700 | 5.06% | 0 | 0 | 0 | 5,083 | -58 | 503 | 43,197 |
| 4/13/2022 | 904,040 | 920,040 | 16,000 | 1.74% | 0 | 2,098 | 617 | 5,432 | 4 | 544 | 12,741 |
| 4/14/2022 | 1,225,380 | 1,240,870 | 15,490 | 1.25% | 0 | 15 | -18 | 5,933 | 5 | 594 | 14,899 |
| 4/15/2022 | 1,210,650 | 1,218,190 | 7,540 | 0.62% | 0 | 38 | 0 | 5,662 | -51 | 561 | 6,941 |
| 4/16/2022 | 1,418,480 | 1,429,240 | 10,760 | 0.75% | 0 | 826 | 91 | 5,865 | 31 | 590 | 9,254 |
| 4/17/2022 | 1,271,270 | 1,284,450 | 13,180 | 1.03% | 0 | 743 | -177 | 5,775 | 2 | 578 | 12,036 |
| 4/18/2022 | 988,020 | 1,005,730 | 17,710 | 1.76% | 0 | 4,201 | 1,200 | 5,500 | 142 | 564 | 11,745 |
| 4/19/2022 | | 2,279,160 | 30,760 | 1.35% | 0 | 1,373 | -937 | 6,876 | 366 | | |
| 4/20/2022 | | 1,408,090 | 11,710 | 0.83% | 0 | 463 | -1,871 | 5,905 | 30 | 594 | |
| 4/21/2022 | | 2,785,780 | 8,730 | 0.31% | 0 | 3,725 | -587 | 8,020 | 323 | 834 | 4,758 |
| 4/22/2022 | | 685,360 | 11,650 | 1.70% | 0 | 34 | 154 | | -52 | 502 | |
| 4/23/2022 | | 631,460 | 47,980 | 7.60% | 0 | 0 | 0 | , | -189 | 459 | 47,521 |
| 4/24/2022 | | 629,550 | 54,150 | 8.60% | 0 | 0 | 0 | | -176 | 460 | |

| Date | ASM Market Run Cost | Self Schedule Run Cost | ASM Market Savings | Savings % | Cont Reserve Depl Failure Charge | Excessive/D eficient Energy Charge | Net Regulation Adjust Charge | DA Admin | RT Admin | ASM Admin (10.00%) | Net Savings |
|-----------|------------------------|---------------------------|-----------------------|-----------|--|---|---------------------------------------|----------|----------|-----------------------|-------------|
| 4/25/2022 | | 1,826,570 | 14,650 | | | • | -1,327 | | 201 | , | |
| 4/26/2022 | | 3,052,120 | 22,500 | 0.74% | | | | 8,713 | 548 | | <i>'</i> |
| 4/27/2022 | | 933,060 | 13,350 | 1.43% | | | | 5,102 | -14 | | |
| 4/28/2022 | | 1,307,340 | 20,650 | 1.58% | 0 | | | 5,878 | 208 | | |
| 4/29/2022 | | 686,590 | 43,020 | 6.27% | 0 | | | 4,779 | -201 | 458 | |
| 4/30/2022 | | 713,010 | 51,740 | 7.26% | 0 | | | 4,785 | -149 | | |
| 5/1/2022 | | 716,950 | 53,590 | 7.47% | 0 | 0 | 0 | 4,217 | -141 | 408 | |
| 5/2/2022 | 2,434,160 | 2,452,460 | 18,300 | 0.75% | 0 | 709 | -3,334 | 6,286 | 591 | 688 | |
| 5/3/2022 | 2,076,690 | 2,092,170 | 15,480 | 0.74% | 0 | 2,052 | | 5,959 | -25 | 593 | 14,853 |
| 5/4/2022 | 2,574,060 | 2,582,300 | 8,240 | 0.32% | 0 | 981 | 412 | 6,570 | 396 | 697 | 6,151 |
| 5/5/2022 | 2,507,290 | 2,526,080 | 18,790 | 0.74% | 0 | 2,720 | -1,920 | 6,336 | 300 | 664 | 17,326 |
| 5/6/2022 | 2,684,860 | 2,705,560 | 20,700 | 0.77% | 0 | 3,658 | -36 | 6,256 | 216 | 647 | 16,430 |
| 5/7/2022 | 968,480 | 997,090 | 28,610 | 2.87% | 0 | 0 | 0 | 4,648 | -171 | 448 | 28,162 |
| 5/8/2022 | 714,860 | 747,960 | 33,100 | 4.43% | 0 | 0 | 0 | 4,235 | -153 | 408 | 32,692 |
| 5/9/2022 | 834,780 | 880,080 | 45,300 | 5.15% | 0 | 4 | -129 | 4,217 | -67 | 415 | 45,011 |
| 5/10/2022 | 2,815,860 | 2,828,090 | 12,230 | 0.43% | 0 | 239 | -2,892 | 6,028 | 573 | 660 | 14,223 |
| 5/11/2022 | 1,284,500 | 1,315,910 | 31,410 | 2.39% | 0 | 2,458 | -244 | 4,805 | 537 | 534 | 28,661 |
| 5/12/2022 | 1,044,820 | 1,089,660 | 44,840 | 4.12% | 0 | 1,680 | -450 | 4,482 | 98 | 458 | 43,151 |
| 5/13/2022 | 2,109,680 | 2,151,490 | 41,810 | 1.94% | 0 | 1,556 | -8,211 | 5,361 | 337 | 570 | 47,895 |
| 5/14/2022 | 1,061,040 | 1,097,670 | 36,630 | 3.34% | 0 | 532 | -1,841 | 4,435 | 574 | 501 | 37,439 |
| 5/15/2022 | 1,153,100 | 1,198,530 | 45,430 | 3.79% | 0 | 22 | 0 | 4,548 | 6 | 455 | 44,953 |
| 5/16/2022 | 2,776,150 | 2,799,290 | 23,140 | 0.83% | 0 | 4,512 | 424 | 6,438 | 525 | 696 | 17,508 |
| 5/17/2022 | 1,712,880 | 1,754,200 | 41,320 | 2.36% | 0 | 1,531 | 475 | 5,158 | 58 | 522 | 38,793 |
| 5/18/2022 | 1,821,480 | 1,881,330 | 59,850 | 3.18% | 0 | 1,866 | -6,125 | 4,359 | 551 | 491 | 63,618 |
| 5/19/2022 | 1,869,770 | 1,879,740 | 9,970 | 0.53% | 0 | 2,063 | 148 | 4,511 | 295 | 481 | 7,278 |
| 5/20/2022 | 765,340 | 818,210 | 52,870 | 6.46% | 0 | 0 | 0 | 4,119 | 70 | 419 | 52,451 |
| 5/21/2022 | 2,398,720 | 2,427,100 | 28,380 | 1.17% | 0 | 1,782 | 205 | 5,867 | 348 | 622 | 25,771 |
| 5/22/2022 | 1,782,740 | 1,781,250 | -1,490 | -0.08% | 0 | 271 | 105 | 5,275 | 151 | 543 | (2,408) |
| 5/23/2022 | 1,938,740 | 1,963,440 | 24,700 | 1.26% | 0 | 2,003 | -263 | 5,372 | 277 | 565 | 22,396 |
| 5/24/2022 | 711,960 | 756,610 | 44,650 | 5.90% | 0 | 0 | 0 | 4,082 | -191 | 389 | 44,261 |
| 5/25/2022 | 1,167,170 | 1,196,800 | 29,630 | 2.48% | 0 | 0 | 30 | 4,503 | 119 | 462 | 29,137 |
| 5/26/2022 | 1,474,120 | 1,495,120 | 21,000 | 1.40% | 0 | 169 | 197 | 4,786 | 44 | 483 | 20,152 |
| 5/27/2022 | 2,097,830 | 2,111,030 | 13,200 | 0.63% | 0 | 370 | | | 17 | | · · |
| 5/28/2022 | 1,200,910 | 1,214,220 | 13,310 | | | 60 | | | 619 | | |
| 5/29/2022 | | 1,280,680 | 21,280 | | | | | | 44 | | |
| 5/30/2022 | | 1,208,520 | 25,710 | | | | | | 254 | 533 | |
| 5/31/2022 | | 847,300 | 73,890 | | | | | | 193 | | |
| 6/1/2022 | 3,694,740 | 3,696,460 | 1,720 | 0.05% | 0 | 2,347 | 583 | 6,549 | 819 | 737 | (1,946) |

| Date | ASM Market Run Cost | Self Schedule Run Cost | ASM Market Savings | Savings % | Cont Reserve Depl Failure Charge | | Net Regulation Adjust Charge | DA Admin | RT Admin | ASM Admin (10.00%) | Net Savings |
|-----------|------------------------|---------------------------|-----------------------|-----------|--|---------------------------------------|---------------------------------------|----------|----------|-----------------------|-------------|
| 6/2/2022 | 2,107,100 | 2,120,470 | 13,370 | 0.63% | 0 | 71 | 426 | 5,240 | 424 | 566 | 12,306 |
| 6/3/2022 | 3,032,700 | 3,040,900 | 8,200 | 0.27% | 0 | 2,345 | -63 | 6,157 | 113 | 627 | 5,291 |
| 6/4/2022 | 1,330,130 | 1,356,740 | 26,610 | 1.96% | 0 | 159 | -59 | 4,623 | 334 | 496 | 26,014 |
| 6/5/2022 | 2,025,930 | 2,038,270 | 12,340 | 0.61% | 0 | 870 | -72 | 5,554 | 154 | 571 | 10,972 |
| 6/6/2022 | 2,052,640 | 2,053,900 | 1,260 | 0.06% | 0 | 1,462 | -1,127 | 5,851 | 462 | 631 | 293 |
| 6/7/2022 | 3,701,090 | 3,698,530 | -2,560 | -0.07% | 0 | 3,149 | -3,024 | 7,694 | 520 | 821 | (3,506) |
| 6/8/2022 | 3,958,250 | 3,972,470 | 14,220 | 0.36% | 0 | 401 | -149 | 7,797 | 1,257 | 905 | 13,063 |
| 6/9/2022 | 3,428,770 | 3,433,590 | 4,820 | 0.14% | 0 | 1,434 | -2,369 | 7,239 | 217 | 746 | 5,009 |
| 6/10/2022 | 3,923,630 | 3,929,300 | 5,670 | 0.14% | 0 | 5,729 | -2,017 | 7,956 | 536 | 849 | 1,109 |
| 6/11/2022 | 1,591,750 | 1,602,250 | 10,500 | 0.66% | 0 | 529 | -317 | 5,461 | 47 | 551 | 9,737 |
| 6/12/2022 | 3,299,440 | 3,319,600 | 20,160 | 0.61% | 0 | 6,197 | 2,930 | 7,109 | 688 | 780 | 10,253 |
| 6/13/2022 | 2,125,260 | 2,143,010 | 17,750 | 0.83% | 0 | 3,033 | -412 | 5,787 | 981 | 677 | 14,452 |
| 6/14/2022 | 4,722,050 | 4,739,050 | 17,000 | 0.36% | 0 | 4,064 | -971 | 7,921 | 1,347 | 927 | 12,981 |
| 6/15/2022 | 3,527,930 | 3,556,530 | 28,600 | 0.80% | 0 | 612 | 529 | 7,700 | 1,919 | 962 | 26,497 |
| 6/16/2022 | 3,248,930 | 3,266,700 | 17,770 | 0.54% | 0 | 2,504 | -4,416 | 7,111 | 894 | 800 | 18,882 |
| 6/17/2022 | 4,478,080 | 4,486,040 | 7,960 | 0.18% | 0 | 9,923 | -4,137 | 8,699 | 659 | 936 | 1,237 |
| 6/18/2022 | 849,430 | 861,280 | 11,850 | 1.38% | 0 | 270 | -12 | 3,931 | 273 | 420 | 11,172 |
| 6/19/2022 | 1,490,570 | 1,511,410 | 20,840 | 1.38% | 0 | 578 | 1,002 | 4,954 | 212 | 517 | 18,743 |
| 6/20/2022 | 4,112,510 | 4,123,520 | 11,010 | 0.27% | 0 | 4,203 | -361 | 8,046 | 664 | 871 | 6,296 |
| 6/21/2022 | 4,607,910 | 4,633,800 | 25,890 | 0.56% | 0 | 14,294 | -2,032 | 8,772 | 1,763 | 1,054 | 12,574 |
| 6/22/2022 | 5,586,450 | 5,574,180 | -12,270 | -0.22% | 0 | 6,853 | -3,903 | 10,314 | 657 | 1,097 | (16,318) |
| 6/23/2022 | 3,800,090 | 3,798,580 | -1,510 | -0.04% | 0 | 4,076 | 473 | 8,442 | 798 | 924 | (6,983) |
| 6/24/2022 | 3,711,260 | 3,709,870 | -1,390 | -0.04% | 0 | 1,488 | 3,379 | 8,264 | 1,032 | 930 | (7,187) |
| 6/25/2022 | 1,306,490 | 1,326,040 | 19,550 | 1.47% | 0 | 245 | -251 | 5,154 | 762 | 592 | 18,964 |
| 6/26/2022 | 1,819,670 | 1,823,660 | 3,990 | 0.22% | 0 | 1,310 | -55 | 5,473 | 467 | 594 | 2,141 |
| 6/27/2022 | 3,247,510 | 3,255,930 | 8,420 | 0.26% | 0 | 1,833 | -822 | 7,860 | 546 | 841 | 6,568 |
| 6/28/2022 | 2,411,140 | 2,427,310 | 16,170 | 0.67% | 0 | 1,616 | -161 | 6,484 | 257 | 674 | 14,040 |
| 6/29/2022 | 1,689,730 | 1,705,700 | 15,970 | 0.94% | 0 | · · · · · · · · · · · · · · · · · · · | 196 | 5,678 | 551 | 623 | 13,905 |
| 6/30/2022 | 3,296,050 | 3,297,580 | 1,530 | 0.05% | 3,929 | 4,107 | 871 | 7,287 | 599 | 789 | (8,165) |
| 7/1/2022 | 4,184,580 | 4,192,390 | 7,810 | 0.19% | 0 | 3,067 | -4,283 | 10,307 | 554 | 1,086 | 7,940 |
| 7/2/2022 | 2,906,480 | 2,916,300 | 9,820 | 0.34% | 0 | 1,297 | -719 | 8,821 | 1,311 | 1,013 | 8,229 |
| 7/3/2022 | 1,526,210 | 1,530,120 | 3,910 | 0.26% | 0 | 168 | 4,530 | 6,612 | 928 | 754 | (1,541) |
| 7/4/2022 | 1,939,550 | 1,964,370 | 24,820 | 1.26% | 0 | 1,081 | -43 | | 231 | | |
| 7/5/2022 | 4,270,990 | 4,267,900 | -3,090 | -0.07% | 0 | 9,285 | 1,216 | 10,102 | 721 | 1,082 | (14,673) |
| 7/6/2022 | 4,133,860 | 4,135,580 | 1,720 | 0.04% | 0 | 3,345 | 1,506 | 10,051 | 1,125 | 1,118 | (4,249) |
| 7/7/2022 | | 4,173,530 | 1,780 | 0.04% | 0 | 2,037 | 4,868 | 9,973 | 519 | 1,049 | (6,175) |
| 7/8/2022 | 4,089,960 | 4,088,740 | -1,220 | -0.03% | 0 | 5,124 | -362 | 10,530 | 236 | 1,077 | (7,058) |
| 7/9/2022 | 2,943,700 | 2,946,740 | 3,040 | 0.10% | 0 | 3,329 | 49,626 | 8,607 | 239 | 885 | (50,800) |

| Date | ASM Market Run Cost | Self Schedule Run Cost | ASM Market Savings | Savings % | Cont Reserve Depl Failure Charge | Excessive/D eficient Energy Charge | Regulation Adjust | DA Admin | RT Admin | ASM Admin (10.00%) | Net Savings |
|-----------|------------------------|---------------------------|-----------------------|-----------|--|---|----------------------|-----------|-----------|-----------------------|-------------|
| 7/10/2022 | 1,403,800 | 1,421,320 | 17,520 | 1.23% | 0 | 522 | 24,611 | 6,010 | 148 | 616 | (8,228) |
| 7/11/2022 | 1,972,510 | 1,973,600 | 1,090 | 0.06% | 0 | 1,840 | -638 | 6,948 | 308 | 726 | (838) |
| 7/12/2022 | 3,958,120 | 3,955,680 | -2,440 | -0.06% | 0 | 1,729 | -3,235 | 9,435 | 587 | 1,002 | (1,936) |
| 7/13/2022 | 3,982,760 | 3,981,150 | -1,610 | -0.04% | 0 | 1,848 | 290 | 9,690 | 160 | 985 | (4,734) |
| 7/14/2022 | 3,310,770 | 3,312,810 | 2,040 | 0.06% | 0 | 2,431 | -702 | 8,716 | 764 | 948 | (637) |
| 7/15/2022 | 4,112,660 | 4,111,230 | -1,430 | -0.03% | 0 | 1,797 | -586 | 9,690 | 336 | 1,003 | (3,643) |
| 7/16/2022 | 3,884,040 | 3,875,260 | -8,780 | -0.23% | 0 | 1,920 | -377 | 9,820 | -6 | 981 | (11,304) |
| 7/17/2022 | 4,044,990 | 4,042,100 | -2,890 | -0.07% | 0 | 3,936 | -1,194 | 10,267 | 100 | 1,037 | (6,669) |
| 7/18/2022 | 5,040,080 | 5,029,060 | -11,020 | -0.22% | 0 | 7,090 | 19,023 | 10,947 | 584 | 1,153 | (38,286) |
| 7/19/2022 | 2,908,580 | 2,914,200 | 5,620 | 0.19% | 0 | 5,167 | 7,570 | 8,532 | 968 | 950 | (8,067) |
| 7/20/2022 | 3,498,680 | 3,499,560 | 880 | 0.03% | 0 | 4,343 | -1,789 | 8,972 | 802 | 977 | (2,651) |
| 7/21/2022 | 5,070,530 | 5,073,960 | 3,430 | 0.07% | 0 | 3,662 | -2,886 | 11,095 | 517 | 1,161 | 1,493 |
| 7/22/2022 | 4,736,270 | 4,744,620 | 8,350 | 0.18% | 0 | 1,882 | 2,915 | 10,370 | 439 | 1,081 | 2,471 |
| 7/23/2022 | 2,614,630 | 2,645,360 | 30,730 | 1.16% | 0 | 371 | -180 | 8,207 | 500 | 871 | 29,668 |
| 7/24/2022 | 2,868,100 | 2,867,880 | -220 | -0.01% | 0 | 540 | -1,128 | 8,117 | 356 | 847 | (480) |
| 7/25/2022 | 4,078,630 | 4,083,360 | 4,730 | 0.12% | 0 | 2,100 | -892 | 9,819 | 892 | 1,071 | 2,452 |
| 7/26/2022 | 3,540,730 | 3,545,060 | 4,330 | 0.12% | 0 | 4,036 | -1,460 | 8,227 | 393 | 862 | 892 |
| 7/27/2022 | 2,847,380 | 2,860,870 | 13,490 | 0.47% | 211,247 | 711 | 14,241 | 7,246 | 209 | 746 | (213,455) |
| 7/28/2022 | 3,050,130 | 3,063,640 | 13,510 | 0.44% | 0 | 576 | -735 | 7,625 | 565 | 819 | 12,849 |
| 7/29/2022 | 4,702,060 | 4,708,400 | 6,340 | 0.13% | 0 | 1,317 | -2,381 | 10,541 | 365 | 1,091 | 6,313 |
| 7/30/2022 | 3,023,040 | 3,032,440 | 9,400 | 0.31% | 0 | 2,278 | -482 | 8,290 | 1,165 | 946 | 6,659 |
| 7/31/2022 | 1,514,230 | 1,513,940 | -290 | -0.02% | 0 | 1,042 | -5 | 6,701 | 213 | 691 | (2,018) |
| 8/1/2022 | 4,558,850 | 4,570,570 | 11,720 | 0.26% | 0 | 5,028 | 8,330 | 9,141 | 623 | 976 | (2,615) |
| 8/2/2022 | 3,951,810 | 3,952,010 | 200 | 0.01% | 0 | 1,752 | -640 | 8,501 | 1,027 | 953 | (1,865) |
| 8/3/2022 | 4,349,210 | 4,354,370 | 5,160 | 0.12% | 0 | 2,932 | -5,732 | 9,326 | 576 | 990 | 6,970 |
| 8/4/2022 | 4,094,220 | 4,094,260 | 40 | 0.00% | 0 | 18,682 | 2,242 | 9,062 | 801 | 986 | (21,870) |
| 8/5/2022 | 2,822,030 | 2,825,570 | 3,540 | 0.13% | 0 | 7,517 | 1,910 | 7,574 | 1,099 | 867 | (6,754) |
| 8/6/2022 | 3,050,300 | 3,056,780 | 6,480 | 0.21% | 0 | 3,503 | 606 | 7,747 | 1,573 | 932 | 1,439 |
| 8/7/2022 | 2,710,090 | 2,721,730 | 11,640 | 0.43% | 0 | 3,312 | -445 | 7,479 | 1,301 | 878 | 7,895 |
| 8/8/2022 | 4,067,000 | 4,082,060 | 15,060 | 0.37% | 0 | 3,772 | 11,707 | 8,905 | 779 | 968 | (1,388) |
| 8/9/2022 | 4,511,260 | 4,518,660 | 7,400 | 0.16% | 0 | 1,017 | -1,082 | 9,196 | 369 | 957 | 6,509 |
| 8/10/2022 | 4,972,270 | 4,979,130 | 6,860 | 0.14% | 0 | 3,716 | -991 | 9,908 | 401 | 1,031 | 3,104 |
| 8/11/2022 | 3,671,350 | 3,680,200 | 8,850 | 0.24% | 0 | 3,314 | -441 | 8,531 | 1,103 | 963 | 5,014 |
| 8/12/2022 | 1,131,200 | 1,135,460 | 4,260 | 0.38% | 0 | 791 | -58 | 5,003 | 5,003 54 | | 3,022 |
| 8/13/2022 | 3,022,830 | 3,023,710 | 880 | 0.03% | 0 | 1,812 | -569 | 7,228 | 7,228 683 | | (1,154) |
| 8/14/2022 | 3,045,100 | 3,045,950 | 850 | 0.03% | 0 | 1,023 | -270 | 7,720 317 | | 804 | (707) |
| 8/15/2022 | 3,519,360 | 3,519,050 | -310 | -0.01% | 0 | 1,272 | -266 | 8,573 | 371 | 894 | (2,210) |
| 8/16/2022 | 4,174,210 | 4,177,710 | 3,500 | 0.08% | 0 | 1,784 | 63 | 9,180 | 222 | 940 | 712 |

| Date | ASM Market Run Cost | Self Schedule Run Cost | ASM Market Savings | Savings % | Cont Reserve Depl Failure Charge | Excessive/D eficient Energy Charge | Net Regulation Adjust Charge | DA Admin | RT Admin | ASM Admin (10.00%) | Net Savings |
|-----------|------------------------|---------------------------|-----------------------|---|--|---|---------------------------------------|----------|----------|-----------------------|---------------------------------------|
| 8/17/2022 | 4,952,410 | 4,953,800 | 1,390 | 0.03% | 0 | | | 9,934 | 97 | 1,003 | |
| 8/18/2022 | 4,396,900 | 4,397,880 | 980 | 980 0.02% 0 906 - 2,768 9,350 486 | | 984 | 1,859 | | | | |
| 8/19/2022 | 4,225,230 | 4,232,580 | 7,350 | 0.17% | 0 | 1,142 | | 9,134 | 734 | 987 | 6,074 |
| 8/20/2022 | 3,682,260 | 3,686,760 | 4,500 | 0.12% | 0 | 1,941 | -3,096 | 8,692 | 105 | 880 | 4,775 |
| 8/21/2022 | 3,776,970 | 3,781,730 | 4,760 | 0.13% | 0 | 399 | -741 | 8,818 | 493 | 931 | 4,171 |
| 8/22/2022 | 4,925,100 | 4,925,910 | 810 | 0.02% | 0 | 933 | -2,574 | 9,580 | 287 | 987 | 1,464 |
| 8/23/2022 | 4,927,700 | 4,929,310 | 1,610 | 0.03% | 0 | 3,051 | -273 | 9,332 | 248 | 958 | (2,126) |
| 8/24/2022 | 4,214,530 | 4,211,680 | -2,850 | -0.07% | 0 | 760 | -811 | 8,553 | 189 | 874 | (3,674) |
| 8/25/2022 | 4,461,670 | 4,461,050 | -620 | -0.01% | 0 | 1,330 | -256 | 8,904 | 84 | 899 | (2,593) |
| 8/26/2022 | 4,219,850 | 4,224,270 | 4,420 | 0.10% | 0 | 2,065 | -2,032 | 8,793 | 449 | 924 | 3,463 |
| 8/27/2022 | 1,170,640 | 1,186,610 | 15,970 | 1.35% | 0 | 1,229 | -2,413 | 5,246 | 322 | 557 | 16,597 |
| 8/28/2022 | 1,412,660 | 1,433,150 | 20,490 | 1.43% | 0 | 12,946 | 13,155 | 5,498 | 182 | 568 | (6,179) |
| 8/29/2022 | 3,598,590 | 3,605,650 | 7,060 | 0.20% | 0 | 1,015 | -304 | 7,775 | 538 | 831 | 5,518 |
| 8/30/2022 | 4,178,210 | 4,177,520 | -690 | -0.02% | 0 | 3,049 | -6 | 7,952 | 324 | 828 | (4,561) |
| 8/31/2022 | 4,588,480 | 4,594,230 | 5,750 | 0.13% | 0 | 3,143 | -2,847 | 8,342 | 433 | 878 | 4,577 |
| 9/1/2022 | 4,219,200 | 4,217,730 | -1,470 | -0.03% | 0 | 2,443 | -640 | 9,257 | 269 | 953 | (4,225) |
| 9/2/2022 | 3,933,260 | 3,932,240 | -1,020 | -0.03% | 0 | 4,042 | -1,000 | 8,367 | 222 | 859 | (4,921) |
| 9/3/2022 | 2,691,010 | 2,705,680 | 14,670 | 0.54% | 0 | 317 | -631 | 7,332 | 168 | 750 | 14,234 |
| 9/4/2022 | 2,089,200 | 2,096,190 | 6,990 | 0.33% | 0 | 317 | 39 | 6,685 | 20 | 670 | 5,964 |
| 9/5/2022 | 2,637,540 | 2,645,690 | 8,150 | 0.31% | 0 | 405 | 16 | 7,232 | 526 | 776 | 6,953 |
| 9/6/2022 | 3,924,220 | 3,927,650 | 3,430 | 0.09% | 0 | 629 | 323 | 8,643 | 649 | 929 | 1,549 |
| 9/7/2022 | 4,032,370 | 4,030,350 | -2,020 | -0.05% | 0 | 471 | -682 | 8,876 | 338 | 921 | (2,731) |
| 9/8/2022 | 2,079,220 | 2,102,300 | 23,080 | 1.10% | 0 | 1,965 | 3,353 | 6,427 | 327 | 675 | 17,086 |
| 9/9/2022 | 2,958,860 | 2,977,460 | 18,600 | 0.62% | 0 | 584 | 4,652 | 7,921 | 352 | 827 | 12,537 |
| 9/10/2022 | 2,851,960 | 2,870,610 | 18,650 | 0.65% | 0 | 1,794 | 145 | 7,968 | 319 | 829 | 15,883 |
| 9/11/2022 | 3,300,990 | 3,314,450 | 13,460 | 0.41% | 0 | 3,821 | -139 | 8,843 | 460 | 930 | 8,848 |
| 9/12/2022 | 3,744,570 | 3,754,030 | 9,460 | 0.25% | 0 | 3,058 | 1,122 | 9,427 | 203 | 963 | 4,317 |
| 9/13/2022 | 3,692,860 | 3,697,880 | 5,020 | 0.14% | 0 | 2,703 | 464 | 9,239 | 448 | 969 | 884 |
| 9/14/2022 | 2,297,380 | 2,304,770 | 7,390 | 0.32% | 0 | 1,761 | 41 | 7,205 | 914 | 812 | 4,776 |
| 9/15/2022 | 2,113,290 | 2,132,350 | 19,060 | 0.89% | 0 | 2,536 | 1,292 | 6,357 | 164 | 652 | 14,581 |
| 9/16/2022 | 3,174,400 | 3,185,910 | 11,510 | 0.36% | 0 | 318 | -887 | 8,188 | 238 | 843 | 11,237 |
| 9/17/2022 | 2,271,070 | 2,277,760 | 6,690 | 0.29% | 0 | 2,187 | -6,245 | · | 217 | 746 | · · · · · · · · · · · · · · · · · · · |
| 9/18/2022 | 3,231,590 | 3,240,700 | 9,110 | 0.28% | 0 | 2,401 | 5,596 | | 116 | | |
| 9/19/2022 | 3,945,690 | 3,950,390 | 4,700 | 0.12% | 0 | 3,023 | 5,455 | 9,633 | 1,244 | 1,088 | |
| 9/20/2022 | 4,066,200 | 4,056,230 | -9,970 | -0.25% | 0 | 2,787 | -3,143 | 9,134 | 1,531 | | |
| 9/21/2022 | 789,110 | 818,450 | 29,340 | 3.58% | 0 | 461 | 850 | 4,899 | 18 | 492 | 27,537 |
| 9/22/2022 | 2,844,880 | 2,861,590 | 16,710 | 0.58% | 0 | 2,336 | | | 1,600 | | |
| 9/23/2022 | 1,063,490 | 1,087,110 | 23,620 | 2.17% | 0 | 3 | -5 | 5,280 | 533 | 581 | 23,041 |

| Date | ASM Market Run Cost | Self Schedule Run Cost | ASM Market Savings | Savings % | Cont Reserve Depl Failure Charge | Excessive/D eficient Energy Charge | Net Regulation Adjust Charge | DA Admin | RT Admin | ASM Admin (10.00%) | Net Savings |
|------------|------------------------|---------------------------|-----------------------|-----------|--|---|---------------------------------------|----------|----------|-----------------------|-------------|
| 9/24/2022 | 828,770 | 849,640 | 20,870 | 2.46% | 0 | 67 | 0 | 5,012 | 1,640 | 665 | 20,138 |
| 9/25/2022 | 711,290 | 738,960 | 27,670 | 3.74% | 0 | 308 | -25 | 4,509 | -25 | 448 | 26,939 |
| 9/26/2022 | 1,002,620 | 1,037,370 | 34,750 | 3.35% | 0 | 844 | -347 | 5,420 | 18 | 544 | 33,709 |
| 9/27/2022 | 2,640,360 | 2,655,050 | 14,690 | 0.55% | 0 | 8,179 | 351 | 8,308 | 654 | 896 | 5,264 |
| 9/28/2022 | 2,224,960 | 2,248,060 | 23,100 | 1.03% | 0 | 5,235 | -330 | 7,673 | 337 | 801 | 17,393 |
| 9/29/2022 | 774,440 | 795,490 | 21,050 | 2.65% | 0 | 1,427 | -5 | 4,766 | 3 | 477 | 19,152 |
| 9/30/2022 | 785,820 | 806,170 | 20,350 | 2.52% | 0 | 185 | 16 | 4,826 | -19 | 481 | 19,668 |
| 10/1/2022 | 1,048,350 | 1,072,000 | 23,650 | 2.21% | 0 | 1,408 | -671 | 4,540 | 360 | 490 | 22,422 |
| 10/2/2022 | 1,012,390 | 1,032,900 | 20,510 | 1.99% | 0 | 1,775 | -465 | 4,436 | -32 | 440 | 18,759 |
| 10/3/2022 | 1,556,510 | 1,588,190 | 31,680 | 1.99% | 0 | 1,398 | 234 | 5,073 | 105 | 518 | 29,531 |
| 10/4/2022 | 2,091,380 | 2,114,820 | 23,440 | 1.11% | 0 | 2,200 | 1,849 | 6,108 | 186 | 629 | 18,761 |
| 10/5/2022 | 2,186,870 | 2,211,120 | 24,250 | 1.10% | 0 | 1,284 | 1,452 | 6,568 | 166 | 673 | 20,840 |
| 10/6/2022 | 866,300 | 890,340 | 24,040 | 2.70% | 0 | 342 | 112 | 4,079 | 92 | 417 | 23,169 |
| 10/7/2022 | 2,159,850 | 2,189,460 | 29,610 | 1.35% | 0 | 1,375 | -651 | 5,946 | 23 | 597 | 28,289 |
| 10/8/2022 | 1,115,040 | 1,145,430 | 30,390 | 2.65% | 0 | 388 | 22 | 4,532 | -34 | 450 | 29,530 |
| 10/9/2022 | 1,914,800 | 1,946,890 | 32,090 | 1.65% | 0 | 1,771 | -238 | 5,682 | 357 | 604 | 29,952 |
| 10/10/2022 | 1,945,110 | 1,977,510 | 32,400 | 1.64% | 0 | 5,066 | 7,576 | 5,800 | 35 | 583 | 19,174 |
| 10/11/2022 | 826,480 | 856,690 | 30,210 | 3.53% | 0 | 33 | 450 | 4,082 | 108 | 419 | 29,308 |
| 10/12/2022 | 796,550 | 826,460 | 29,910 | 3.62% | 0 | 351 | 62 | 3,950 | -84 | 387 | 29,111 |
| 10/13/2022 | 800,370 | 829,710 | 29,340 | 3.54% | 0 | 1,168 | 1,061 | 3,962 | -17 | 395 | 26,717 |
| 10/14/2022 | 1,711,800 | 1,746,320 | 34,520 | 1.98% | 0 | 266 | -223 | 4,659 | 726 | 539 | 33,938 |
| 10/15/2022 | 1,239,790 | 1,264,400 | 24,610 | 1.95% | 0 | 243 | -25 | 4,639 | 1,135 | 577 | 23,814 |
| 10/16/2022 | 1,026,950 | 1,052,400 | 25,450 | 2.42% | 0 | 297 | 0 | 4,060 | 426 | 449 | 24,704 |
| 10/17/2022 | 2,285,190 | 2,293,930 | 8,740 | 0.38% | 0 | 1,823 | -922 | 5,748 | 1,015 | 676 | 7,163 |
| 10/18/2022 | 2,543,110 | 2,556,890 | 13,780 | 0.54% | 0 | 1,547 | 78 | 6,319 | 965 | 728 | 11,427 |
| 10/19/2022 | 2,433,440 | 2,427,100 | -6,340 | -0.26% | 0 | 2,734 | -113 | 6,397 | 346 | 674 | (9,635) |
| 10/20/2022 | 2,318,270 | 2,335,490 | 17,220 | 0.74% | 0 | 2,121 | 578 | 6,115 | 1,089 | 720 | 13,800 |
| 10/21/2022 | 2,055,360 | 2,065,250 | 9,890 | 0.48% | 0 | 1,366 | 954 | 5,606 | 556 | 616 | 6,953 |
| 10/22/2022 | 1,016,700 | 1,025,680 | 8,980 | 0.88% | 0 | 295 | 54 | 3,844 | 378 | 422 | 8,208 |
| 10/23/2022 | 896,930 | 909,330 | 12,400 | 1.36% | 0 | 599 | 123 | 3,459 | 255 | 371 | 11,306 |
| 10/24/2022 | 1,813,730 | 1,814,930 | 1,200 | 0.07% | 0 | 819 | 1,401 | 5,115 | 885 | 600 | (1,620) |
| 10/25/2022 | 1,841,540 | 1,845,440 | 3,900 | 0.21% | 0 | 2,533 | -1 | 5,128 | 585 | | 796 |
| 10/26/2022 | 2,221,570 | 2,220,210 | -1,360 | -0.06% | 0 | 2,162 | -516 | 6,031 | 339 | 637 | (3,643) |
| 10/27/2022 | 1,796,780 | 1,798,430 | 1,650 | 0.09% | 0 | 2,081 | 1,659 | 5,379 | | | (2,677) |
| 10/28/2022 | 1,853,890 | 1,855,510 | 1,620 | 0.09% | 0 | | -42 | | 372 | 584 | (41) |
| 10/29/2022 | 1,743,250 | 1,742,560 | -690 | -0.04% | 0 | 692 | -89 | 5,287 | 641 | 593 | (1,886) |
| 10/30/2022 | 2,072,310 | 2,074,880 | 2,570 | 0.12% | 0 | | | | | | |
| 10/31/2022 | 2,606,520 | 2,615,780 | 9,260 | 0.35% | 0 | 1,322 | -115 | 7,249 | 600 | 785 | 7,268 |

| Date | ASM Market Run Cost | Self Schedule Run Cost | ASM Market Savings | Savings % | Cont Reserve Depl Failure Charge | Excessive/D eficient Energy Charge | Net Regulation Adjust Charge | DA Admin | RT Admin | ASM Admin (10.00%) | Net Savings |
|------------|------------------------|---------------------------|-----------------------|-----------|--|---|---------------------------------------|----------|----------|-----------------------|-------------|
| 11/1/2022 | 2,194,300 | 2,204,420 | 10,120 | 0.46% | 0 | 1,926 | -202 | 7,237 | 669 | 791 | 7,606 |
| 11/2/2022 | 913,180 | 939,750 | 26,570 | 2.83% | 0 | 8 | 0 | 4,069 | 459 | 453 | 26,109 |
| 11/3/2022 | 829,710 | 855,400 | 25,690 | 3.00% | 0 | 10 | 232 | 3,797 | 414 | 421 | 25,027 |
| 11/4/2022 | 1,127,710 | 1,154,720 | 27,010 | 2.34% | 0 | 103 | 285 | 4,675 | 191 | 487 | 26,136 |
| 11/5/2022 | 612,060 | 634,610 | 22,550 | 3.55% | 0 | 18 | 275 | 3,605 | 162 | 377 | 21,881 |
| 11/6/2022 | 583,780 | 607,770 | 23,990 | 3.95% | 0 | 11 | 27 | 3,483 | 61 | 354 | 23,598 |
| 11/7/2022 | 2,105,580 | 2,109,380 | 3,800 | 0.18% | 0 | 2,367 | 254 | 6,358 | 646 | 700 | 479 |
| 11/8/2022 | 948,280 | 954,970 | 6,690 | 0.70% | 0 | 2,005 | 227 | 4,451 | 236 | 469 | 3,990 |
| 11/9/2022 | 1,171,680 | 1,183,220 | 11,540 | 0.98% | 0 | 673 | -627 | 5,077 | 367 | 544 | 10,950 |
| 11/10/2022 | 1,184,700 | 1,189,850 | 5,150 | 0.43% | 0 | 192 | -24 | 5,281 | 457 | 574 | 4,409 |
| 11/11/2022 | 1,230,040 | 1,235,060 | 5,020 | 0.41% | 0 | 141 | 0 | 5,898 | 767 | 666 | 4,213 |
| 11/12/2022 | 2,181,120 | 2,190,280 | 9,160 | 0.42% | 0 | 4,241 | -294 | 7,925 | 465 | 839 | 4,374 |
| 11/13/2022 | 3,011,250 | 3,028,930 | 17,680 | 0.58% | 0 | 355 | -200 | 10,516 | 290 | 1,081 | 16,444 |
| 11/14/2022 | 3,607,870 | 3,619,960 | 12,090 | 0.33% | 0 | 3,114 | -2,014 | 11,303 | 370 | 1,167 | 9,822 |
| 11/15/2022 | 3,760,920 | 3,777,170 | 16,250 | 0.43% | 0 | 3,788 | 72 | 10,804 | 536 | 1,134 | 11,256 |
| 11/16/2022 | 1,450,360 | 1,458,610 | 8,250 | 0.57% | 0 | 175 | 1,612 | 6,736 | 439 | 717 | 5,746 |
| 11/17/2022 | 1,149,960 | 1,154,850 | 4,890 | 0.42% | 0 | 359 | -129 | 6,018 | 348 | 637 | 4,024 |
| 11/18/2022 | 1,041,870 | 1,060,420 | 18,550 | 1.75% | 0 | 149 | 0 | 5,676 | 202 | 588 | 17,814 |
| 11/19/2022 | 733,630 | 767,060 | 33,430 | 4.36% | 0 | 0 | 0 | 4,866 | -129 | 474 | 32,956 |
| 11/20/2022 | 724,710 | 772,660 | 47,950 | 6.21% | 0 | 36 | 0 | 4,812 | -77 | 474 | 47,440 |
| 11/21/2022 | 2,978,540 | 2,986,850 | 8,310 | 0.28% | 0 | 642 | -859 | 8,798 | 733 | 953 | 7,574 |
| 11/22/2022 | 1,310,120 | 1,320,510 | 10,390 | 0.79% | 0 | 1,183 | 31 | 6,631 | 2,869 | 950 | 8,226 |
| 11/23/2022 | | 1,224,680 | 4,230 | 0.35% | 0 | 43 | -453 | 6,436 | 857 | 729 | 3,911 |
| 11/24/2022 | 1,079,440 | 1,085,070 | 5,630 | 0.52% | 0 | 194 | 0 | 5,961 | 351 | 631 | 4,805 |
| 11/25/2022 | 1,010,070 | 1,017,660 | 7,590 | 0.75% | 0 | 135 | 0 | 5,741 | 275 | 602 | 6,853 |
| 11/26/2022 | 817,030 | 845,930 | 28,900 | 3.42% | 0 | 68 | 9 | 4,769 | -19 | 475 | 28,348 |
| 11/27/2022 | 951,400 | 975,150 | 23,750 | 2.44% | 0 | 1,116 | -3,218 | 5,311 | 43 | 535 | 25,316 |
| 11/28/2022 | 770,620 | 805,810 | 35,190 | 4.37% | 0 | 175 | -1,394 | 4,974 | -14 | 496 | 35,913 |
| 11/29/2022 | 933,470 | 967,960 | 34,490 | 3.56% | 0 | 230 | 17 | 5,049 | -6 | 504 | 33,738 |
| 11/30/2022 | 1,823,470 | 1,848,070 | 24,600 | 1.33% | 0 | 1,964 | -27 | 6,495 | 75 | 657 | 22,006 |
| 12/1/2022 | 1,132,480 | 1,165,260 | 32,780 | 2.81% | 0 | 1,199 | -1,212 | 4,371 | 78 | 445 | 32,348 |
| 12/2/2022 | 955,450 | 986,400 | 30,950 | 3.14% | 0 | 1,174 | 34 | 4,159 | -124 | 404 | 29,338 |
| 12/3/2022 | | 1,100,240 | 27,750 | 2.52% | 0 | 1,663 | 144 | 4,186 | 199 | | |
| 12/4/2022 | 1,153,560 | 1,159,180 | 5,620 | 0.48% | 0 | 1,781 | 74 | 4,636 | 40 | 468 | |
| 12/5/2022 | 2,415,890 | 2,416,300 | 410 | 0.02% | 0 | 850 | 2,517 | 6,385 | | | |
| 12/6/2022 | | 3,032,890 | -60 | 0.00% | 0 | | 230 | 8,203 | 222 | 843 | (2,137) |
| 12/7/2022 | | 3,075,610 | -450 | -0.01% | 0 | | | 8,577 | | | |
| 12/8/2022 | 2,759,560 | 2,760,320 | 760 | 0.03% | 0 | 1,889 | -637 | 7,903 | 536 | 844 | (1,335) |

Northern States Power Company, a Minnesota Corporation Electric Operations – State of Minnesota MISO – Ancillary Services Market Docket No. E002/AA-21-295 True-up Report Part B, Attachment 12 Page 10 of 10

| | | | | | | Excessive/D | Net | | | | |
|------------|-------------|---------------|------------|-----------|--------------|-------------|------------|-----------|----------|-----------|-------------|
| | | | | | Cont Reserve | eficient | Regulation | | | | |
| | ASM Market | Self Schedule | ASM Market | | Depl Failure | Energy | Adjust | | | ASM Admin | |
| Date | Run Cost | Run Cost | Savings | Savings % | Charge | Charge | Charge | DA Admin | RT Admin | (10.00%) | Net Savings |
| 12/9/2022 | 2,933,580 | 2,933,630 | 50 | 0.00% | 0 | 1,074 | -1,215 | 8,237 | 425 | 866 | (675) |
| 12/10/2022 | 2,734,020 | 2,735,690 | 1,670 | 0.06% | 0 | 1,092 | -1,958 | 7,734 | 284 | 802 | 1,734 |
| 12/11/2022 | 2,397,040 | 2,401,430 | 4,390 | 0.18% | 0 | 2,470 | 34 | 7,057 | 723 | 778 | 1,108 |
| 12/12/2022 | 939,090 | 967,250 | 28,160 | 2.91% | 0 | 307 | -347 | 3,736 | 243 | 398 | 27,802 |
| 12/13/2022 | 815,870 | 878,350 | 62,480 | 7.11% | 0 | 53 | -10 | 3,822 | 6 | 383 | 62,054 |
| 12/14/2022 | 2,879,890 | 2,884,890 | 5,000 | 0.17% | 0 | 2,295 | -692 | 6,511 | 800 | 731 | 2,666 |
| 12/15/2022 | 1,687,680 | 1,707,640 | 19,960 | 1.17% | 0 | 923 | 204 | 5,714 | 673 | 639 | 18,194 |
| 12/16/2022 | 1,160,220 | 1,169,170 | 8,950 | 0.77% | 0 | 458 | 30 | 4,700 | 186 | 489 | 7,973 |
| 12/17/2022 | 1,287,520 | 1,301,940 | 14,420 | 1.11% | 0 | 1,275 | -20 | 4,881 | 163 | 504 | 12,661 |
| 12/18/2022 | 3,817,340 | 3,819,970 | 2,630 | 0.07% | 0 | 9,211 | -559 | 8,094 | 219 | 831 | (6,853) |
| 12/19/2022 | 4,116,340 | 4,123,390 | 7,050 | 0.17% | 3,644 | 2,283 | -846 | 9,193 | 777 | 997 | 973 |
| 12/20/2022 | 3,548,940 | 3,551,710 | 2,770 | 0.08% | 0 | 2,298 | -345 | 8,102 | 354 | 846 | (28) |
| 12/21/2022 | 4,078,190 | 4,093,680 | 15,490 | 0.38% | 0 | 1,338 | -2,107 | 8,769 | 383 | 915 | 15,344 |
| 12/22/2022 | 1,421,430 | 1,425,220 | 3,790 | 0.27% | 0 | 634 | 6 | 5,447 | 159 | 561 | 2,589 |
| 12/23/2022 | 1,564,410 | 1,588,710 | 24,300 | 1.53% | 79,418 | 24,161 | 57,898 | 5,762 | 1,013 | 678 | (137,854) |
| 12/24/2022 | 1,949,160 | 2,001,060 | 51,900 | 2.59% | 0 | 12,448 | -3,692 | 5,868 | 1,720 | 759 | 42,386 |
| 12/25/2022 | 4,136,460 | 4,141,900 | 5,440 | 0.13% | 0 | 36,750 | -407 | 7,705 | 798 | 850 | (31,753) |
| 12/26/2022 | 4,374,900 | 4,401,810 | 26,910 | 0.61% | 0 | 49,454 | -8,698 | 8,023 | 306 | 833 | (14,678) |
| 12/27/2022 | 1,538,200 | 1,565,900 | 27,700 | 1.77% | 0 | 1,052 | -217 | 5,660 | 1,017 | 668 | 26,198 |
| 12/28/2022 | 1,292,740 | 1,299,860 | 7,120 | 0.55% | 0 | 205 | 4 | 5,008 | 203 | 521 | 6,390 |
| 12/29/2022 | 1,441,530 | 1,444,190 | 2,660 | 0.18% | 0 | 1,165 | 15 | 5,438 | 251 | 569 | 911 |
| 12/30/2022 | 1,460,800 | 1,466,260 | 5,460 | 0.37% | 0 | 2,130 | -194 | 5,639 | 23 | 566 | 2,958 |
| 12/31/2022 | 1,035,940 | 1,075,240 | 39,300 | 3.65% | 0 | 2,054 | -31 | 4,529 | 162 | 469 | 36,808 |
| Total | 822,352,790 | 827,163,490 | 4,810,700 | 0.01 | 298,238 | 707,832 | 134,586 | 2,437,330 | 155,181 | 259,251 | 3,410,793 |

Excessive Deficient Energy Deployment Charge by NSP Resource

| LOCATION | | Jan-22 | | Feb-22 | Mar-22 | | Apr-22 | | May-22 | Jm. | n-22 | Ju. | ıl-22 | | Aug-22 | | Sep-22 | | Oct-22 | - | Nov-22 | | Dec-22 |
|-----------------|----|--------|----|--------|----------------|----|--------|----|--------|-----|--------|-----|--------|---------|--------|----|--------|----|--------|----|--------|----------------|---------|
| Anson G2 | \$ | 66 | | | \$ - | \$ | | \$ | _ | \$ | | \$ | | \$ | | \$ | • | \$ | - | \$ | | \$ | - |
| Anson G3 | \$ | 66 | \$ | | \$ - | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | _ | \$ | | \$ | 2 |
| Anson G4 | \$ | - | - | | \$ - | \$ | | \$ | 1,170 | \$ | 13 | \$ | | \$ | 390 | \$ | | \$ | 299 | \$ | | \$ | 70 |
| Blk Dog G52 | \$ | _ | \$ | | \$ 1,753 | \$ | 4.430 | \$ | _ | \$ | 1.032 | \$ | , | \$ | | \$ | 1.377 | \$ | - | \$ | | \$ | |
| Blk Dog G6 | \$ | _ | _ | 2,345 | | \$ | 8,266 | \$ | 487 | \$ | , | \$ | ,- | \$ | | \$ | ,- | \$ | 4.747 | \$ | | \$ | 2,345 |
| Blue Lk G7 | \$ | | \$ | | \$ - | \$ | 15 | \$ | 14 | \$ | 2.997 | \$ | | \$ | | \$ | | \$ | - ' | \$ | -, | \$ | 2,040 |
| Blue Lk G8 | \$ | 760 | \$ | | \$ - | \$ | - | \$ | | \$ | 2,053 | \$ | , | \$ | 747 | \$ | 421 | \$ | - | \$ | | \$ | |
| Blue Lk G8 | \$ | 760 | \$ | | \$ - | \$ | - | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | |
| Canon Falls1 | \$ | 304 | \$ | | \$ - | \$ | 19 | \$ | | \$ | | \$ | | \$ | 1,244 | Φ | | \$ | 6 | \$ | | \$ | 12 |
| Canon Falls2 | \$ | 3 | _ | | \$ - | \$ | 54 | \$ | 14 | \$ | | \$ | | \$ | 2.246 | \$ | 2.238 | \$ | 13 | \$ | | \$ | 13,940 |
| CC Highbridge1 | \$ | 117 | | | \$ 1.440 | \$ | 1.935 | \$ | | \$ | | \$ | , - | \$ | , - | \$ | , | \$ | 624 | \$ | | \$ | 11,505 |
| | | | | | , , - | _ | , | | , - | • | | • | , | • | | \$ | -, | \$ | | \$ | | \$ | , |
| CC Highbridge2 | \$ | 6 | | , - | , , | \$ | 1,395 | \$ | | \$ | | \$ | | \$ | | | | • | 1,906 | | | _ | 8,146 |
| CC Mankato1 | \$ | 1,191 | \$ | | \$ 401 | \$ | 2,955 | \$ | 9,035 | \$ | 8,232 | \$ | | \$ | 2,341 | \$ | 5,447 | \$ | 3,127 | \$ | | \$ | 8,214 |
| CC Mankato2 | \$ | 1,947 | \$ | | \$ 155 | \$ | 2,527 | \$ | 3,620 | \$ | | \$ | | \$ | | \$ | 4,231 | \$ | 3,707 | \$ | | \$ | 8,586 |
| CCRiverside1 | \$ | 6,141 | \$ | , - | \$ 1,041 | \$ | 846 | \$ | 3,116 | \$ | 16,206 | \$ | -,- | \$ | 5,816 | \$ | 2,097 | \$ | 5,275 | \$ | | \$ | 35,019 |
| CCRiverside2 | \$ | 3,635 | \$ | -, | \$ 1,452 | \$ | 1,907 | \$ | 3,868 | \$ | 10,757 | \$ | , - | \$ | -, | \$ | , | \$ | 2,807 | \$ | | \$ | 33,460 |
| CORNEL | \$ | - | \$ | | \$ - | \$ | - | \$ | - | \$ | - | \$ | | \$ | | \$ | | \$ | - | \$ | | \$ | - |
| HOLCOM | \$ | - | \$ | | \$ - | \$ | - | \$ | - | \$ | - | \$ | | \$ | | \$ | | \$ | - | \$ | | \$ | - |
| InvrHils_1 | \$ | - | - | | \$ - | \$ | 12 | \$ | | \$ | - | \$ | | \$ | ., | \$ | 32 | \$ | - | \$ | | \$ | - |
| InvrHils_2 | \$ | - | | | \$ - | \$ | - | \$ | | \$ | - | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | 12 |
| InvrHils_3 | \$ | 0 | | | \$ - | \$ | - | \$ | | \$ | 756 | \$ | , | \$ | | \$ | | \$ | - | \$ | | \$ | 3 |
| InvrHils_4 | \$ | - | | | \$ - | \$ | - | \$ | 5 | \$ | 4 | \$ | | \$ | 67 | \$ | 1 | \$ | - | \$ | | \$ | - |
| InvrHils_5 | \$ | 2 | \$ | - | \$ - | \$ | - | \$ | - | \$ | 104 | \$ | | \$ | | \$ | 28 | \$ | 1 | \$ | | \$ | 42 |
| InvrHils_6 | \$ | - | \$ | - | \$ - | \$ | - | \$ | 0 | \$ | 12 | \$ | 45 | \$ | 29 | \$ | - | \$ | - | \$ | 8 | \$ | 58 |
| JIMFL | \$ | - | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| King_G1 | \$ | 8,700 | \$ | 3,216 | \$ 1,745 | \$ | - | \$ | - | \$ | 1,722 | \$ | 6,299 | \$ | 10,096 | \$ | - | \$ | - | \$ | 2,181 | \$ | 30,705 |
| LSPower_1 | \$ | 12,059 | \$ | 8,847 | \$ 5,321 | \$ | 11,730 | \$ | 5,955 | \$ | 7,900 | \$ | 12,680 | \$ | 6,911 | \$ | 9,061 | \$ | 12,853 | \$ | 5,770 | \$ | 5,359 |
| NSP.BIGBLUE | \$ | | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| NSP.BR_DIR_TR1 | \$ | - | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| NSP.BSTAR1.WND | \$ | - | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| NSP.BSTAR2.WND | \$ | - | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| NSP.FENTON.WND | \$ | - | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| NSP.MNDAK.WND | \$ | - | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - 1 | \$ | _ |
| NSP.MORAINE2 | \$ | _ | \$ | _ | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | | \$ | _ |
| NSP.NOBLE.CWS1 | \$ | _ | \$ | _ | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | _ | \$ | - | \$ | - | \$ | _ |
| NSP.NOBLE.CWS1 | \$ | _ | \$ | - | \$ - | \$ | - | \$ | | \$ | _ | \$ | | \$ | - | \$ | - | \$ | - | \$ | | \$ | |
| NSP.NOBLE.CWS2 | \$ | _ | \$ | - | \$ - | \$ | - | \$ | | \$ | - | \$ | | \$ | | \$ | - | \$ | _ | \$ | | \$ | |
| NSP.NOBLES.WND | \$ | _ | \$ | | \$ - | \$ | _ | \$ | | \$ | - | \$ | | \$ | - | \$ | _ | \$ | _ 1 | \$ | _ | \$ | |
| NSP.ODELL.WND | \$ | _ | \$ | | \$ - | \$ | - | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | |
| NSP.PROSE | \$ | _ | - | | т | \$ | _ | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | |
| NSP.PVALEY.WND | \$ | - | \$ | | \$ - | \$ | - | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | |
| SHERCO G1 | \$ | 1.036 | \$ | | \$ 3.155 | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | 3.727 |
| SHERCO_G1 | \$ | 2,746 | \$ | | , | \$ | 1,224 | \$ | | \$ | | \$ | | \$ | , | \$ | , | \$ | , | \$ | ,- | \$ | 3,087 |
| Wheaton 1 | \$ | 61 | \$ | | \$ 1,006 | \$ | 1,224 | \$ | | \$ | 362 | \$ | | \$ | 28 | \$ | | \$ | | \$ | | \$ | 33 |
| Wheaton 2 | \$ | 52 | Φ | 14 | у - | \$ | | \$ | | \$ | 558 | Ψ | | φ \$ | 49 | ψ | 157 | Φ | | ψ | | φ \$ | 334 |
| Wheaton 3 | \$ | 77 | \$ | | \$ - \$ - | \$ | | \$ | | \$ | 217 | Ψ Φ | | \$ | | \$ | 80 | \$ | - | \$ | | <u>φ</u> \$ | 62 |
| | | | Φ | | Ÿ | \$ | - | \$ | | • | | Φ | | \$ | | φ | | φ | - | \$ | | \$ | |
| Wheaton_4 | \$ | 236 | \$ | | \$ - \$ - | \$ | - | \$ | | \$ | 2,095 | φ | | т | 27 | \$ | 81 | \$ | | φ | | \$ | 103 |
| Wheaton_6 | - | - | Ψ | | т | Ψ | | \$ | | \$ | - | Φ | | \$ | | - | | Ψ | - | φ | | т | |
| WI Ewngton 2 | \$ | - | \$ | | Ψ | \$ | - | \$ | | Ψ | - | Φ | | \$ | | \$ | | \$ | | \$ | | \$ | |
| Wi Grand Meadow | \$ | | \$ | | 7 | \$ | 5 | Ψ | | \$ | | \$ | | \$ | | \$ | | Ψ | | \$ | | \$ | 44 |
| WI Jeffers 2 | \$ | | \$ | | | \$ | - | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | - | \$ | | \$ | - |
| Wi Valley View | \$ | - | \$ | | 7 | \$ | - | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | |
| WISSOTATR3 | \$ | - | \$ | | \$ - | \$ | - | \$ | | \$ | | \$ | | \$ | | \$ | - | \$ | | \$ | | \$ | - |
| WISSOTATR4 | \$ | - | \$ | | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | - |
| Totals | \$ | 39,964 | \$ | 26,403 | \$ 19,223 | \$ | 37,321 | \$ | 33,624 | \$ | 89,001 | \$ | 80,819 | \$ | 97,597 | \$ | 57,028 | \$ | 41,512 | \$ | 25,418 | \$ | 164,868 |

Contingency Reserve Deployment Failure Charges by NSP Resource

| LOCATION | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 |
|--------------------------|--------|--------|--------|--------|--------|--------------------|-----------------|--------------|--------|------------------------|----------|--------------------|
| Anson G2 | \$ | - \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | | \$ - | | \$ - |
| Anson G3 | | - \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | | \$ - | | \$ - |
| Anson G4 | | - \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | | \$ - | | \$ - |
| Blk Dog G52 | | - \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | | \$ - | | \$ - |
| Blk_Dog_G6 | | - \$ - | | \$ - | | \$ - | \$ - | | | \$ - | • | \$ - |
| Blue Lk G7 | | - \$ - | \$ - | \$ - | • | \$ - | \$ - | \$ - | • | \$ - | | \$ - |
| Blue Lk G8 | | | | \$ - | | | | · | | \$ - | 7 | |
| | | | | \$ - | | • | | | | \$ - | • | \$ - \$ - |
| Blue_Lk_G8 | | | | | • | | | 7 | • | 7 | 7 | 7 |
| Canon_Falls1 | | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | • | \$ - |
| Canon_Falls2 | | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | | \$ - |
| CC Highbridge1 | | - \$ - | \$ - | \$ - | | \$ - | \$ 51,511 | | | \$ - | | \$ - |
| CC Highbridge2 | • | - \$ - | | \$ - | | \$ - | \$ 53,800 | | • | \$ - | | \$ - |
| CC Mankato1 | 7 | - \$ - | \$ - | • | | \$ 2,342 | \$ 26,201 | \$ - | | \$ - | | \$ - |
| CC Mankato2 | ¥ | - \$ - | \$ - | \$ - | | \$ 1,587 | \$ 26,668 | \$ - | | \$ - | | \$ - |
| CCRiverside1 | \$ | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| CCRiverside2 | \$ | | т | • | • | \$ - | \$ - | \$ - | | \$ - | т | \$ - |
| CORNEL | \$ | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - : | \$ - |
| HOLCOM | | - \$ - | \$ - | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - : | \$ - |
| InvrHils_1 | \$ | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ 13,267 | \$ - | \$ - | \$ - | \$ - : | \$ - |
| InvrHils 2 | \$ | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - : | \$ 14,164 |
| InvrHils 3 | \$ | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - : | \$ 14,164 |
| InvrHils 4 | \$ | - \$ - | \$ - | \$ - | \$ - | \$ - | \$ 13,267 | \$ - | \$ - | \$ - | \$ - : | \$ - |
| InvrHils 5 | | · \$ - | \$ - | \$ - | | \$ - | \$ 13,267 | \$ - | | \$ - | • | \$ 14,164 |
| InvrHils 6 | \$ - | | \$ - | \$ - | • | \$ - | \$ 13,267 | \$ - | • | \$ - | | \$ 14,164 |
| JIMFL | \$ - | | \$ - | • | \$ - | \$ - | \$ - | 7 | | \$ - | 7 | \$ - |
| King G1 | \$ - | | \$ - | | | \$ - | \$ - | \$ - | | \$ - | • | \$ - |
| | \$ - | | \$ - | • | т. | \$ - | \$ - | \$ - | 7 | \$ - | Ψ, | \$ - |
| NSP.BIGBLUE | \$ - | | \$ - | • | | \$ - | \$ - | \$ - | 7 | \$ - | Ŧ . | \$ - |
| | \$ | | \$ - | • | | \$ - | \$ - | \$ - | 7 | \$ - | | \$ - |
| NSP.BSTAR1.WND | \$ - | | \$ - | | • | <u> </u> | \$ - | \$ - | | \$ - | Ψ, | \$ - |
| NSP.BSTAR2.WND | \$ - | | \$ - | | | <u> </u> | \$ - | \$ - | 7 | \$ - | | φ <u>-</u> \$ - |
| | • | | \$ - | • | | \$ - \$ - | \$ - | \$ - | 7 | \$ - \$ - | Ψ , | \$ - \$ - |
| NSP.FENTON.WND | 7 | т | · · | • | 7 | т | Ψ | Ψ | 7 | 7 | Ψ , | Ψ |
| NSP.MNDAK.WND | \$ - | • | \$ - | • | т | \$ - \$ - | \$ - | \$ - | | \$ - \$ - | · | \$ - |
| NSP.MORAINE2 | \$ - | Ψ | \$ - | \$ - | Ψ | Ψ | \$ - | Ψ | Ψ | Ť | Ψ | \$ - |
| | \$ - | | 1: | | | \$ - | \$ - | \$ - | т | \$ - | 7 | \$ - |
| NSP.NOBLE.CWS1 | \$ - | - | \$ - | 7 | \$ - | \$ - | \$ - | \$ - | • | \$ - | 7 | \$ - |
| | \$ - | • | | * | τ | \$ - | \$ - | \$ - | т | \$ - | \$ - \$ | , |
| _ | \$ - | • | | | Ψ | \$ - | \$ - | \$ - | • | \$ - | 7 | - |
| NSP.ODELL.WND | \$ - | , T | \$ - | * | \$ - | \$ - | \$ - | Ψ | * | \$ - | \$ - 9 | |
| NSP.PROSE | \$ - | | | | \$ - | \$ - | \$ - | \$ - | * | \$ - | \$ - \$ | |
| | \$ - | \$ - | \$ - | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - \$ | T |
| SHERCO_G1 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - 9 | - |
| SHERCO_G2 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ | \$ - | \$ - | \$ - | \$ - 9 | - |
| Wheaton_1 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ | \$ - | \$ - | \$ - | \$ - 9 | - |
| Wheaton_2 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - 9 | . |
| Wheaton_3 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - \$ | 10,493 |
| Wheaton 4 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - 9 | 15,913 |
| Wheaton 6 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - \$ | š - |
| WI Ewngton 2 | \$ - | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - 9 | š - |
| Wi Grand Meadow | \$ - | | | | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - 9 | - |
| WI Jeffers 2 | \$ - | T | \$ - | * | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - 9 | - |
| Wi Valley View | \$ - | | \$ - | * | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - 9 | - |
| WISSOTATR3 | \$ - | Ψ | \$ - | \$ - | \$ - | <u>σ -</u> \$ - | \$ - | \$ - | \$ - | \$ - | \$ - 9 | 5 - |
| WISSOTATR3 WISSOTATR4 | \$ - | | \$ - | • | \$ - | <u>-</u> \$ - | \$ - | \$ - \$ - | \$ - 5 | р - \$ - | \$ - \$ | · - |
| | | т | т | т | т | * | \$ 211,247 | 7 | * | 7 | 7 | 83,062 |
| Totals | \$ - | \$ - | \$ - | \$ - | \$ - | ຉ <i>ა</i> ,ყ∠ყ | p ∠11,∠4/ | \$ - | \$ - : | \$ - | \$ - \$ | ა გვესხ2 |

Northern States Power Company Electric Operations – State of Minnesota Wind Curtailment Report Docket No. E002/AA-21-295 True-Up Report Part C, Attachment 1 Page 1 of 14

2022 WIND CURTAILMENT REPORT

I. INTRODUCTION

The Commission's April 4, 2006 Order regarding curtailment payments to wind developers (Docket No. E999/AA-04-1279) requires the Company to provide in future AAA reports a projection of wind generation curtailment costs given existing and planned wind-generated energy purchases and transmission system needs. The Commission's June 12, 2019 Order in Docket No. E999/CI-03-802 approved the disposition of AAA reporting requirements as agreed to by the Company and the Department. The Company and the Department agreed that curtailment reporting could be reformatted to provide support for increased curtailment, in addition to providing detailed curtailment data by unit and by curtailment code.

Below we summarize the Company's experience regarding wind curtailment payments and provide a discussion of the drivers for increased wind curtailment payments during the 2022 reporting year as compared to the 2022 forecast. Part C, Attachment 2 shows detailed curtailment payments by unit and by curtailment code, in compliance with the Commission's February 6, 2008 Order in Docket Nos. E,G999/AA-06-1208 and E002/M-04-1970 *et al.*

We most recently discussed and provided an estimate of potential curtailment payments and the assumptions used to develop our 2023 curtailment forecast in our May 2, 2022 Petition and July 29, 2022 Reply Comments in Docket No. E002/AA-22-179. We will provide an estimate of 2023 curtailment payments, including forecast assumptions, in our 2024 fuel forecast Petition to be filed by May 1, 2023.

II. CURTAILMENT OVERVIEW

The Company expects that some level of wind curtailment from Power Purchase Agreement (PPA) facilities will occur in the foreseeable future. The reasons driving the curtailment have shifted from primarily local transmission constraints on NSP's transmission system in southwest Minnesota to regional transmission system congestion on the MISO system. The regional congestion, which results in negative LMP, was the largest driver of curtailment during this reporting period. Additionally, the nature of transmission congestion is accentuated by the large concentration and increased level of wind facility operations in Minnesota, North Dakota, South Dakota, and Iowa.

Significant transmission improvements in southwestern Minnesota and the region, such as the CapX2020 transmission projects (CapX2020), the Huntley – Wilmarth 345

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kV line, and all but one of the MISO Multi-Value Projects (MVPs) are now in-service and will positively impact curtailment by reducing local congestion. However, the Company believes future curtailment in this area will continue to occur because of more regional congestion and the resulting negative LMP in the MISO energy market, along with transmission outages required for construction, maintenance or repair activities and wind generation projects going into service before all required transmission facilities are completed and likely generation oversubscription of the transmission system.

To better manage regional congestion, MISO and the industry utilize Dispatchable Intermittent Resources (DIR), which provide better management of the wind resources. Under this system, a number of existing PPA wind facilities that are capable of operating as DIR, along with all new wind facilities, are registered with MISO as DIR. DIR facilities are given set point instructions every five minutes and rely on Automated Generation Control (AGC) technology, which automatically controls wind project output. DIR allows wind generators to be operated more like traditional generating facilities and, as a result, MISO is able to more quickly and accurately respond to system conditions.

Table 1 shows the current PPA wind facilities associated with this report that are registered and operate as DIR.

Table 1: DIR PPA Facilities

| Wind Project | MW |
|-----------------|------|
| Big Blue | 36 |
| Cisco | 8 |
| Crowned Ridge 1 | 200 |
| Dakota Range 3 | 150 |
| Fenton | 200 |
| Glen Ullin Wind | 106 |
| MinnDakota | 150 |
| Moraine II | 50 |
| Odell | 200 |
| Prairie Rose | 200 |
| Valley View | 10 |
| Zephyr | 30 |
| Total | 1340 |

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The federal Production Tax Credit (PTC), which provides tax benefits to wind generating plants, is connected with increases in wind curtailment, since wind projects are often put into service to meet PTC eligibility requirements even though the necessary transmission upgrades were not completed. The Company is aware of 7,150 MW of new wind generation in Minnesota, North Dakota, South Dakota, and Iowa that have recently gone into service, or are expected to go into service in the next couple years. This includes 2,025 MW of Company-owned and PPA wind. Table 2 shows planned wind developments by NSP and other regional companies. All of these wind developments will be registered and operated as DIRs.

Table 2
Wind Generation Additions¹

| Company | MW | Location | In-Service Dates |
|-------------------------------------|-------|------------|------------------|
| Alliant Energy | 1,150 | IA | 2019-2021 |
| Great River Energy | 1448 | ND | 2020-2025 |
| MidAmerican ² | 2,216 | IA | 2019-2021 |
| Minnesota Municipal Power Agency | 111 | MN | 2021 |
| Minnesota Power | 250 | MN | 2020 |
| Northern States Power | 2,026 | ND, SD, MN | 2019-2022 |
| Otter Tail Power | 150 | ND | 2020 |
| Total | 7,351 | | |

The required transmission upgrades for these wind projects will not all be in-service at the time the projects begin producing energy. A number of transmission facilities that were identified in the interconnection studies as overloaded, along with MTEP related transmission facilities were, or will be, taken out of service and rebuilt. This has, and will continue to have, a negative effect on LMP pricing in the MISO energy market and will continue to impact real-time wind generation on the NSP System.

III. TRANSMISSION SYSTEM IMPROVEMENTS

Since 1994, wind energy resources have been the dominant factor in determining the need for transmission infrastructure improvements in southwestern Minnesota. To meet this need, the Company, often in cooperation with other utilities, has planned, engineered, and constructed a number of projects designed to increase the

¹ The wind repowering projects being developed by NSP are not included in this list.

² MidAmerican has announced they are pursuing an additional 2,042 MW of wind generation and 50 MW of solar generation that if approved would go into service in 2024.

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transmission capacity in that area. Table 3 shows historic southwest Minnesota projects that increased the available transmission outlet in that area.

Table 3
Southwest Minnesota Wind Limits

| Transmission Project | Transmission Owner | In-Service Date | | |
|--------------------------------------|--------------------|-----------------|--|--|
| 425 MW Wind Transmission Expansion | Xcel Energy | December 2006 | | |
| Project | Acci Energy | December 2000 | | |
| 825 MW Wind Transmission Expansion | Xcel Energy | June 2008 | | |
| Project | Acci Energy | June 2008 | | |
| Buffalo Ridge Incremental Generation | Vaal Engagor | December 2009 | | |
| Outlet (BRIGO) | Xcel Energy | December 2009 | | |

The Company also participated in the development of three CapX2020 transmission projects, all of which have gone into service and are helping reduce wind curtailment on the NSP system. Table 4 lists the CapX2020 transmission projects.

Table 4
CapX2020 Transmission Projects

| Transmission Project | Transmission Owner | Actual/Planned In-Service Date | | |
|---|------------------------------------|-----------------------------------|--|--|
| Brookings County - Southeast Twin Cities 345 kV Line | Xcel Energy, Great River Energy | March 26, 2015 | | |
| Fargo North Dakota - Northwest Twin Cities 345 kV Line | Xcel Energy, Great River Energy | April 2, 2015 | | |
| Southeast Twin Cities - La Crosse, Wisconsin 345 kV Line | Xcel Energy, SMMPA and non-MISO | September 16, 2016 | | |

In addition to the transmission projects discussed above, a number of other new transmission infrastructure projects have been placed in service, including the Huntley – Wilmarth 345 kV line, and all but one of the Multi-Value Projects (MVP). The Cardinal – Hickory Creek 345 kV Line will be the last MVP to go into service, though the expected in-service date is late 2023.³ The Huntley – Wilmarth line, which went into service on December 1, 2021, was classified as an Economic Project under the MTEP process and was installed to improve congestion. The MVPs were designed to expand and enhance the region's transmission system, reduce congestion, provide access to affordable energy sources, and meet public policy requirements including renewable energy mandates. The completion of the MVP projects, particularly the

³ The Cardinal – Hickory Creek line is involved in litigation that could negatively impact the in-service date.

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ones listed in Table 5, have had, or will have, a positive impact on Company-owned and PPA wind facilities.

Table 5 MVP Projects

| Transmission Project | Transmission Owner | Planned/Actual In-Service Date | | |
|---|---|-----------------------------------|--|--|
| Big Stone South to Brookings County 345 kV Line | Otter Tail Power Company, Xcel Energy | September 8, 2017 | | |
| Lakefield Jct Winnebago - Winco - Kossuth County & Obrien County - Kossuth County - Webster 345 kV Line | MidAmerica Energy, ITC Midwest | September 27, 2018 | | |
| North La Crosse - North Madison | American Transmission Company, Xcel Energy | December 12, 2018 | | |
| Winco to Hazleton 345 kV Line | MidAmerica Energy, ITC Midwest | July 18, 2019 | | |
| Ellendale to Big Stone South 345 kV Line | Otter Tail Power Company, Montana Dakota Utilities | February 5, 2019 | | |
| Cardinal - Hickory Creek 345 kV Line | American Transmission Company, ITC Midwest | December 2023 | | |

One of the design goals for the North La Crosse – North Madison and Cardinal – Hickory Creek 345 kV Lines was to increase the transmission export capacity from Iowa and Minnesota into the 345 kV system in Wisconsin that connects to the Milwaukee and Illinois load centers.

IV. WIND GENERATION AND CURTAILMENT

Chart 1 shows planned and installed Company-owned and PPA wind generation facilities throughout the NSP service territory on an incremental and cumulative basis.

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Chart 1

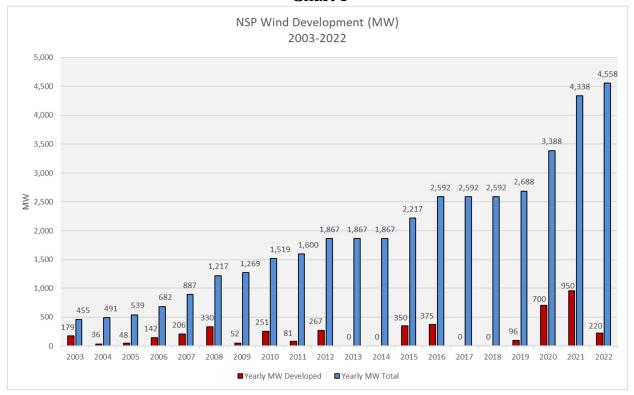
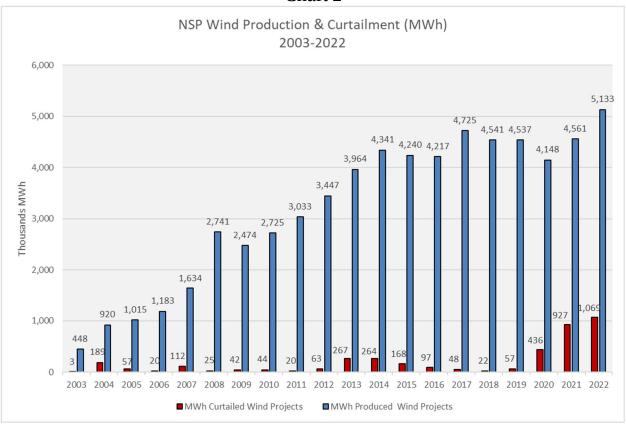


Chart 2 shows the comparison between total wind energy produced and the wind energy curtailed from the projects through December 2022.⁴ Despite the lead/lag time associated with generation and transmission development, Chart 2 shows that wind curtailment is small compared to the total wind generation delivered.

Wind curtailment, as a tool to manage wind generation volumes when necessary, has had the positive benefit of facilitating a large amount of wind resources to be added to the system, which would not otherwise have been possible.

⁴ Part C, Attachment 2.

Chart 2



The 2022 Curtailment in summarized in Table 6.

Table 6 2022 Wind Curtailment MWh and Costs

| | MWh | Costs |
|-------------|-----------|--------------|
| Curtailment | 1,069,391 | \$49,540,011 |

It is important to note that of the \$49,540,011in total curtailment costs, the vast majority of these costs are associated with the contractual energy price of the PPAs. These are contractually obligated sunk costs which are not economically relevant to the decision to curtail the generation from a wind farm.⁵

The Company typically has broken up curtailment into two categories to better explain the reasons for the curtailment and its cause. The two categories were Transmission Curtailment and DIR Curtailment. Transmission Curtailment was specifically related to situations where local transmission-related outages impacted

⁵ The PPA contract language can generally be described as "take or pay" in which NSP must pay for the wind energy that could be produced, regardless of whether it actually is produced or if it is curtailed.

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wind projects. DIR Curtailment was considered curtailment that was not caused by local transmission outages, or where transmission outages did not impact a specific wind farm. This breakdown was more informative when the curtailment was primarily related to local transmission constraints on NSP's transmission system in southwest Minnesota. Curtailment identified as Transmission Curtailment has been declining over the past number of years and is currently almost entirely related to regional transmission congestion on the MISO system, Transmission Curtailment costs in this reporting period continue to be relatively small compared to DIR Curtailment, as shown in Table 7 below:

Table 7: 2022 Wind Curtailment Breakdown

| Туре | Curtailment (MWh) |
|----------------------|-------------------|
| Economic | 1,052,414 |
| Transmission Related | 16,977 |
| Total | 1,069,391 |

Compared to the breakdown between these curtailment types, the Company believes that it will be more informative to provide details on the drivers of regional congestion as measured by the Real Time Binding Constraints which are used to manage congestion in the MISO Real Time Market along with a discussion on transmission outages that occurred during the year.

Per the MISO website, the Real-Time Market is a continuous process for balancing supply and demand at least-cost while recognizing current operating conditions. This includes any deviations from the day-ahead plan as a result of unanticipated and unhedged congestion due to unexpected changes. The Real Time Market dispatches the least-cost generation resources to satisfy system demand without overloading the transmission network.

MISO uses the Security Constrained Economic Dispatch (SCED) algorithm to provide cooptimized clearing solutions in the Real-Time Market. The objective of the Security
Constrained Economic Dispatch (SCED) algorithm is to minimize cost while meeting
forecasted demand, scheduled interchange, and operating reserves requirements, which are
subject to transmission congestion and other system limitations. SCED produces Balanced
injections and withdrawals, congestion management solutions and LMP and MCP. The
SCED runs every five minutes during the Operating Hour to establish the dispatch
instruction for generation resources. SCED produces Resource Energy Dispatch Targets,
Dispatch target information vis setpoint instructions, RT LMP and RT MCP.
MISO sends out a five-minute dispatch target to each resource and repeats throughout the
Operating Day.

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1. Curtailment Procedures

MISO performs a 10-minute forecast every five minutes which is used as the maximum limit for the wind farm in the Unit Dispatch System. MISO sends five-minute dispatch instructions to DIR wind farms. When LMP drops below the offer price of the DIR unit, the farm is automatically dispatched down. The setpoint is sent to the DIR wind farm, and the facility is automatically curtailed. Both PTC and non-PTC DIR wind farms are managed by MISO through automatic control, and these facilities are required to comply with the MISO cost signals. Failure to comply would expose the Company to Revenue Sufficiency Guarantee charges. More curtailment occurs at non-PTC wind farms.

2. Real Time Binding Constraints

Real time binding constraints are the transmission facilities that are identified in the SCED that would overload in anticipation of the next contingency. The SCED would send setpoint instruction to redispatch generation to eliminate the constraint. The most frequent real time binding constraints in the NSP area are listed in Table 7.6

⁶ Area includes Minnesota, North Dakota, South Dakota and Wisconsin.

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Table 8 2022 Real Time Binding Constraints

| 2022 Real Time Binding Constraints | | | | | | | | | | | |
|--|---------------------------------------|-------|---------------|------------------------|--|--|--|--|--|--|--|
| Constraint Name | Contingency Description | State | RTBC Hours | Avg Shadow Price | | | | | | | |
| Forman_230_115_TR1_flo_Hankins on_Wahpeton_230kV | HANKINSON-WAHPETON 230+WAHPETN TR2 | ND | 2,446.8 | (\$374.4) | | | | | | | |
| Ellendal_AberdeenJct_115kV_flo_T winBrooks_BigSto | TWIN BROOKS - BIG STONE SOUTH 345 | ND | 846.7 | (\$55.6) | | | | | | | |
| NSP34011_MURPHYCR_MURPH HAYWA16_1_1 | HELENA-SHEAS LAKE 345 | MN | 450.5 | (\$152.6) | | | | | | | |
| Watertn_345_230_XF_FTLO_Haw kn_Lk_Lyon_Co_345kV | LYON CO - HAWKS NEST LAKE 345 | SD | 416.1 | (\$116.7) | | | | | | | |
| OTP23100_JOHNJCT_JOHNJGR ACE11_1_1 | HANKINSON-WAHPETON 230+WAHPETN TR2 | MN | 396.8 | (\$1,272.5) | | | | | | | |
| ScottCounty_BlueLake_345kV_flo_ Helena_ChubLake_3 | CHUB LAKE-HELENA 345 (0960) | MN | 335.9 | (\$74.2) | | | | | | | |
| PrairieIsland_NorthRochester_345_ FLO_Hampton_Nor | HAMPTON - NORTH ROCHESTER 345 | MN | 317.7 | (\$88.6) | | | | | | | |
| Blair_Granite_Falls_230_KV_FLO_ Hawksnest_Ln_Lyon | LYON CO - HAWKS NEST LAKE 345 | SD | 231.1 | (\$245.7) | | | | | | | |
| FoxLake_Rutland_161kV_flo_Lakef ieldJct_Huntley_3 | HUNTLEY - LAKEFIELD 345 | MN | 215.5 | (\$261.7) | | | | | | | |
| ALENSP01_EAU_CLA_TR9_TR9 | EAU CLAIRE - ARPIN 345 | WI | 209.8 | (\$482.3) | | | | | | | |
| OTP23100_MORRISOT_MORRIG RANT11_1_1 | HANKINSON-WAHPETON 230+WAHPETN TR2 | MN | 203.3 | (\$879.6) | | | | | | | |
| NSP34008_MURPHYCR_MURPH HAYWA16_1_1 | SHEAS LAKE - WILMARTH 345 | MN | 164.7 | (\$130.7) | | | | | | | |
| Bigstone_BrownsVally_230kV_flo_ Oaks_Ellenda_230k | ELLENDALE-OAKES 230 | SD | 161.8 | (\$237.1) | | | | | | | |
| NSPALW02_SOUTHBND_TR6_T R6 | WILMARTH - HUNTLEY 345 | MN | 158.0 | (\$513.5) | | | | | | | |
| White_Split_Rock_345_kV_FTLO_ Hawks_Nest_Lyon_Cou | LYON CO - HAWKS NEST LAKE 345 | MN | 154.5 | (\$139.7) | | | | | | | |
| NSP34X12_WILMART_TR9_TR9 | WILMARTH 345/115 T10 | MN | 134.8 | (\$252.4) | | | | | | | |

A number of factors result in real time binding constraints which cause curtailment including 1) the oversubscription of the transmission system resulting in more wind generation than the transmission system can accommodate; 2) the relationship between wind and load levels where more curtailment will occur during periods of higher wind and lower load; 3) planned and emergency transmission outages required for construction, maintenance or repair activities; and 4) wind generation projects going into service before all required transmission facilities are completed.

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Table 9 lists the transmission outages that the Company has identified as having the most impact on the binding constraints listed above and the resulting curtailment. The outages were required for reasons including construction required for regional transmission upgrades and generator interconnection required upgrades along with regular maintenance or repair activities.

Table 9
2022 Significant Transmission Outages

| Request | Company | KV | From_Station | To_Station | Start | End | Duration |
|------------|----------|---------|-----------------|------------|------------|------------|----------|
| 1-26308777 | GRE, NSP | 345/115 | LYON_CO TR9 | | 5/28/2021 | 5/3/2022 | 341 |
| 1-25868944 | GRE, OTP | 115 | JOHNJCT | MORRISOT | 9/27/2021 | 2/1/2022 | 128 |
| 1-26406529 | MDU | 230 | MANDAN | NAPOLNSW | 8/15/2022 | 11/18/2022 | 96 |
| 1-26458059 | MDU | 230 | MANDAN | NAPOLNSW | 11/30/2021 | 2/18/2022 | 81 |
| 1-26224013 | ITC_MW | 161 | ADAMS | HAYWARD | 3/28/2022 | 6/7/2022 | 72 |
| 1-26224013 | ITC_MW | 161 | BARTONS | ADAMS_I | 3/28/2022 | 6/7/2022 | 72 |
| 1-26224013 | DPC, | 161 | BVR_CRK | ADAMS_I | 3/28/2022 | 6/7/2022 | 72 |
| 1-26224013 | ITC_MW | 345/161 | ADAMS TR1 | | 3/28/2022 | 6/7/2022 | 72 |
| 1-26597650 | NSP | 345 | CRANDAL | FIELDON | 5/11/2022 | 7/8/2022 | 59 |
| 1-26597650 | GRE, NSP | 345 | FIELDON | WILMART | 5/11/2022 | 7/8/2022 | 59 |
| 1-26215034 | NSP | 345/161 | EAU_CLA TR10 | | 5/10/2022 | 7/6/2022 | 58 |
| 1-26488066 | NSP | 345 | LAKEFLD | NOBLES | 6/24/2022 | 7/25/2022 | 32 |
| 1-26516536 | GRE, NSP | 230 | PYNSVIL | WILLMRU | 10/3/2022 | 11/2/2022 | 31 |
| 1-26516536 | GRE | 230 | WILLMRU | GRANITF | 10/3/2022 | 11/2/2022 | 31 |
| 1-26500578 | ATC, NSP | 345 | EAU_CLA | ARPIN | 11/28/2022 | 12/21/2022 | 24 |
| 1-26634491 | NSP | 345 | CRANDAL | FIELDON | 10/10/2022 | 11/1/2022 | 23 |
| 1-26634491 | GRE, NSP | 345 | FIELDON | WILMART | 10/10/2022 | 11/1/2022 | 23 |
| 1-26614542 | ITC_MW | 161 | MOWERCTY | ADAMS_I | 6/17/2022 | 7/7/2022 | 21 |
| 1-26642057 | NSP | 115 | BUFFRID | YANKEE | 10/17/2022 | 11/3/2022 | 18 |
| 1-26454153 | ITC_MW | 345 | HUNTLEY2 | LAKEFLD | 1/31/2022 | 2/14/2022 | 15 |

The Company believes that many of the binding constraints listed in Table 8 were caused or made worse by the transmission outages identified in Table 9. The Forman Transformer binding constraint, which was the most common binding constraint in 2022, was negatively impacted by the Napoleon – Mandan 230 kV line outage⁷. The Napoleon – Mandan outage also likely contributed to the Ellendale – Aberdeen Jct. binding constraint. The Fox Lake – Rutland 161 kV and Wilmarth TR 9 transformer binding constraints occurred almost exclusively during the Crandall – Eigldon

⁷ The Napoleon – Mandan 230 kV line was required to be rebuilt to provide transmission capacity for a new generator interconnection.

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Wilmarth outages. The Johnson Jct. – Graceville binding constraint only occurred during the Johnson Jct. – Morris 115 kV line outage. The Murphy Creek – Hayward 161 kV constraint was negatively impacted by the Adams area outages⁸.

The remaining binding constraints were likely negatively impacted by the various transmission outages that occurred throughout 2022.

3. Curtailment Mitigation Efforts

The Company has been working to schedule transmission outages to minimize curtailment for a number of years –performing multiple outages at the same time and scheduling these activities during times when wind is normally at its lowest levels – typically the summer months in the NSP service territory. While Xcel Energy attempts to plan outage work with this principle in mind, this is not always possible. Summer months are also high load months and transmission outages may not be possible due to load serving needs.

The Company is also working to identify binding constraints that are likely to occur going forward and are developing plans to mitigate these constraints. The mitigation plans will be designed to cost effectively reduce both curtailment and congestion. The plans include breaker reconfiguration and transmission facility upgrades.

V. WIND PRODUCTION AND CURTAILMENT PAYMENTS

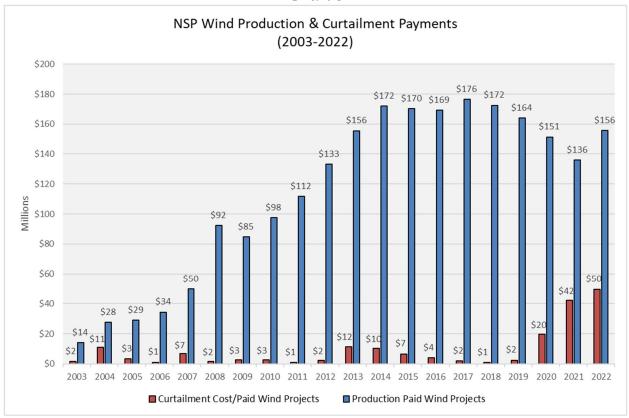
Chart 3 shows the corresponding production and curtailment costs for 2003 through 2022.⁹ As with wind generation produced and curtailed, paid curtailment is a very small portion of total cost of wind generation on the system.

⁸ Adams area outages included the Adams 345/161 kV transformer, Adams - Hayward, Barton- Adams and Beaver Creek – Adams 161 kV lines.

⁹ The data for 2021-2022 is shown in Part C, Attachment 2.

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Chart 3



The Company has typically provided estimates of future potential curtailment payment estimates in the AAA Report. However, going forward these estimates will be provided in our fuel forecast Petition, including the one that will be filed by May 1, 2023. The Company is projecting future curtailment will occur because of regional congestion and the resulting negative LMP in the MISO energy market, along with transmission outages required for construction, maintenance or repair activities and wind generation projects going into service before all required transmission facilities are completed.

Significant transmission improvements in southwestern Minnesota and the region such as the CapX2020 transmission projects (CapX2020), the Huntley – Wilmarth and all but one of the MISO Multi-Value Projects (MVPs)¹⁰ are now in-service and will positively impact curtailment by reducing local congestion. However, the Company anticipates that wind generation curtailment and associated payment to vendors will continue to occur over the coming years because of regional congestion and the resulting negative LMP in the MISO energy market, along with transmission outages required for construction, maintenance, or repair activities and wind

¹⁰ The Cardinal - Hickory Creek 345 kV MVP line is scheduled to go into service in late 2023.

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generation projects going into service before all required transmission facilities are completed and likely generation oversubscription of the transmission system. System conditions and wind project development are very dynamic and actual curtailment may vary from that projected in this report. The Company will continue to participate in discussions regarding transmission planning and operations to identify needs and work to manage future costs. We will continue to refine and gather information for use in future updates to be submitted with subsequent true-up and AAA reports.

The Company continues to utilize initiatives to reduce curtailment. Examples include, where possible, scheduling transmission activities which can impact curtailment during low wind months. The Company is also working to identify binding constraints that are likely to occur going forward and are developing plans to mitigate these constraints.

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Total 2022 AAA Period

| | Date | Paid | Wind Prod | uct | ion Delivered | Lost Production | | | |
|------------|-----------|------|--------------|-----|----------------|-----------------|----|---------------|----------------------|
| | | | | | Amount | | | Amount | Total |
| Production | Delivered | Lost | MWh | | Xcel Energy | | | Xcel Energy | Xcel Energy |
| Month | MWh | MWh | Delivered | | Paid | Lost MWh | | Paid | Paid |
| | | | | | | | | | |
| Jan-21 | | | 415,276.96 | \$ | 12,790,075.17 | 55,813.10 | \$ | 2,807,900.43 | \$ 15,597,975.60 |
| Feb-21 | | | 299,731.39 | \$ | 9,077,653.32 | 33,081.74 | \$ | 1,494,249.98 | \$ 10,571,903.30 |
| Mar-21 | | | 454,702.83 | \$ | 13,823,194.08 | 102,918.72 | \$ | 4,570,158.12 | \$ 18,393,352.20 |
| Apr-21 | | | 452,040.18 | \$ | 13,764,354.19 | 95,559.76 | \$ | 4,295,598.08 | \$ 18,059,952.27 |
| May-21 | | | 378,818.38 | \$ | 11,076,185.38 | 83,722.64 | \$ | 3,810,012.94 | \$ 14,886,198.32 |
| Jun-21 | | | 279,425.87 | \$ | 8,220,002.13 | 53,729.94 | \$ | 2,451,113.61 | \$ 10,671,115.74 |
| Jul-21 | | | 254,534.12 | \$ | 6,964,756.60 | 19,170.23 | \$ | 842,853.61 | \$ 7,807,610.21 |
| Aug-21 | | | 334,103.43 | \$ | 9,296,401.87 | 45,423.20 | \$ | 2,027,854.35 | \$ 11,324,256.22 |
| Sep-21 | | | 365,006.51 | \$ | 10,674,869.41 | 90,261.00 | \$ | 4,036,330.17 | \$ 14,711,199.58 |
| Oct-21 | | | 374,769.54 | \$ | 10,876,269.01 | 127,250.80 | \$ | 5,717,621.97 | \$ 16,593,890.98 |
| Nov-21 | | | 475,572.96 | \$ | 14,208,437.64 | 117,907.39 | \$ | 5,371,503.97 | \$ 19,579,941.61 |
| Dec-21 | | | 477,025.60 | \$ | 15,228,791.71 | 102,492.38 | \$ | 4,738,764.29 | \$ 19,967,556.00 |
| Total-21 | | | 4,561,007.76 | \$ | 136,000,990.51 | 927,330.92 | \$ | 42,163,961.52 | \$ 178,164,952.03 |
| Jan-22 | | | 486,114.99 | \$ | 15,421,309.72 | 133,508.58 | \$ | 6,145,798.49 | \$ 21,567,108.21 |
| Feb-22 | | | 502,705.35 | \$ | 14,769,300.19 | 108,559.97 | \$ | 4,988,995.72 | \$ 19,758,295.91 |
| Mar-22 | | | 514,652.57 | \$ | 15,019,353.70 | 92,798.08 | \$ | 4,318,981.66 | \$ 19,338,335.36 |
| Apr-22 | | | 530,699.02 | \$ | 15,996,139.35 | 214,574.54 | \$ | 9,782,194.55 | \$ 25,778,333.90 |
| May-22 | | | 366,916.47 | \$ | 11,262,896.97 | 109,890.35 | \$ | 5,166,458.68 | \$ 16,429,355.65 |
| Jun-22 | | | 350,175.92 | \$ | 10,518,548.04 | 63,910.23 | \$ | 3,115,800.38 | \$ 13,583,670.96 |
| Jul-22 | | | 301,204.95 | \$ | 8,932,747.36 | 33,917.25 | \$ | 1,645,347.40 | \$ 10,529,413.05 |
| Aug-22 | | | 313,056.66 | \$ | 9,541,612.85 | 17,553.49 | \$ | 841,351.23 | \$ 10,382,964.08 |
| Sep-22 | | | 363,404.50 | \$ | 11,401,827.49 | 58,496.79 | \$ | 2,698,650.21 | \$ 14,100,477.70 |
| Oct-22 | | | 456,771.15 | \$ | 13,490,974.69 | 89,873.45 | \$ | 4,187,674.83 | \$ 17,678,649.52 |
| Nov-22 | | | 519,125.58 | \$ | 15,715,595.96 | 99,216.95 | \$ | 4,491,208.90 | \$ 20,206,804.86 |
| Dec-22 | | | 427,886.52 | \$ | 13,749,195.05 | 47,091.44 | \$ | 2,157,549.42 | \$ 15,906,744.47 |
| Total-22 | | | 5,132,713.69 | \$ | 155,819,501.37 | 1,069,391.11 | \$ | 49,540,011.47 | \$ 205,260,153.67 |

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Curtailment Reason Code 3 (MISO) 2022 AAA Period

| | Date | Paid | Wind Prod | uct | ion Delivered | Lost Production | | | |
|------------|-----------|------|--------------|-----|----------------|-----------------|----|---------------|----------------------|
| | | | | | Amount | | | Amount | Total |
| Production | Delivered | Lost | MWh | | Xcel Energy | | | Xcel Energy | Xcel Energy |
| Month | MWh | MWh | Delivered | | Paid | Lost MWh | | Paid | Paid |
| | | | | | | | | | |
| Jan-21 | | | 286,239.78 | \$ | 8,608,971.51 | 55,813.10 | \$ | 2,807,900.43 | \$ 11,416,871.94 |
| Feb-21 | | | 207,036.82 | \$ | 5,238,392.38 | 33,081.74 | \$ | 1,494,249.98 | \$ 6,732,642.36 |
| Mar-21 | | | 313,731.84 | \$ | 7,958,889.42 | 102,918.72 | \$ | 4,570,158.12 | \$ 12,529,047.54 |
| Apr-21 | | | 359,879.41 | \$ | 10,295,738.72 | 95,559.76 | \$ | 4,295,598.08 | \$ 14,591,336.80 |
| May-21 | | | 335,682.76 | \$ | 9,476,493.54 | 83,722.64 | \$ | 3,810,012.94 | \$ 13,286,506.48 |
| Jun-21 | | | 244,634.08 | \$ | 6,801,152.64 | 53,729.94 | \$ | 2,451,113.61 | \$ 9,252,266.25 |
| Jul-21 | | | 188,634.61 | \$ | 4,407,043.28 | 19,170.23 | \$ | 842,853.61 | \$ 5,249,896.89 |
| Aug-21 | | | 279,344.49 | \$ | 7,183,597.10 | 45,423.20 | \$ | 2,027,854.35 | \$ 9,211,451.45 |
| Sep-21 | | | 317,149.99 | \$ | 8,632,740.85 | 90,261.00 | \$ | 4,036,330.17 | \$ 12,669,071.02 |
| Oct-21 | | | 322,379.24 | \$ | 8,637,684.25 | 127,250.80 | \$ | 5,717,621.97 | \$ 14,355,306.22 |
| Nov-21 | | | 409,323.89 | \$ | 11,381,625.18 | 117,907.39 | \$ | 5,371,503.97 | \$ 16,753,129.15 |
| Dec-21 | | | 413,313.74 | \$ | 12,568,403.16 | 102,492.38 | \$ | 4,738,764.29 | \$ 17,307,167.45 |
| Total-21 | | | 3,677,350.63 | \$ | 101,190,732.03 | 927,330.92 | \$ | 42,163,961.52 | \$ 143,354,693.55 |
| Jan-22 | | | 421,262.70 | \$ | 12,660,937.24 | 133,508.58 | \$ | 6,145,798.49 | \$ 18,806,735.73 |
| Feb-22 | | | 444,805.98 | \$ | 12,491,211.87 | 108,559.97 | \$ | 4,988,995.72 | \$ 17,480,207.59 |
| Mar-22 | | | 449,872.63 | \$ | 12,203,323.15 | 92,798.08 | \$ | 4,318,981.66 | \$ 16,522,304.81 |
| Apr-22 | | | 449,668.29 | \$ | 12,480,199.83 | 214,574.54 | \$ | 9,782,194.55 | \$ 22,262,394.38 |
| May-22 | | | 331,572.70 | \$ | 9,590,629.65 | 109,890.35 | \$ | 5,166,458.68 | \$ 14,757,088.33 |
| Jun-22 | | | 325,296.09 | \$ | 9,173,049.08 | 63,910.23 | \$ | 3,115,800.38 | \$ 12,288,849.46 |
| Jul-22 | | | 281,795.31 | \$ | 7,914,911.18 | 33,917.25 | \$ | 1,645,347.40 | \$ 9,560,258.58 |
| Aug-22 | | | 294,801.09 | \$ | 8,576,613.16 | 17,553.49 | \$ | 841,351.23 | \$ 9,417,964.39 |
| Sep-22 | | | 330,882.88 | \$ | 9,722,738.22 | 58,496.79 | \$ | 2,698,650.21 | \$ 12,421,388.43 |
| Oct-22 | | | 422,570.65 | \$ | 11,865,164.82 | 89,873.45 | \$ | 4,187,674.83 | \$ 16,052,839.65 |
| Nov-22 | | | 403,573.57 | \$ | 10,362,753.12 | 99,216.95 | \$ | 4,491,208.90 | \$ 14,853,962.02 |
| Dec-22 | | | 385,427.73 | \$ | 11,753,056.65 | 47,091.44 | \$ | 2,157,549.42 | \$ 13,910,606.07 |
| Total-22 | | | 4,541,529.61 | \$ | 128,794,587.97 | 1,069,391.11 | \$ | 49,540,011.47 | \$ 178,334,599.44 |

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Lake Benton I 2022 AAA Period

[PROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Northern Alternative Energy (NAE) 2022 AAA Period

[PROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Velva 2022 AAA Period

IPROTECTED DATA BEGINS

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Fenton (EnXco) 2022 AAA Period

[PROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - MinnDakota (Formerly Ivanhoe) 2022 AAA Period

[PROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Lincoln Heights Wind Holding North* 2022 AAA Period

[PROTECTED DATA BEGINS

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

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Lincoln Heights Wind Holding South* 2022 AAA Period

[PROTECTED DATA BEGINS

| | Date | Paid | Wind Produ | ction Delivered | Lo | | | |
|---------------------|------------------|-------------|------------------|-------------------------------|----------|-------------------------------|-----------------|------------------------------|
| Production Month | Delivered MWh | Lost MWh | MWh Delivered | Amount Xcel Energy Paid | Lost MWh | Amount Xcel Energy Paid | Reason Codes | Total Xcel Energy Paid |
| L 04 | | | | | | | | |
| Jan-21 | | | | | | | | |
| Feb-21 | | | | | | | | |
| Mar-21 | | | | | | | | |
| Apr-21 | | | | | | | | |
| May-21 | | | | | | | | |
| Jun-21 Jul-21 | | | | | | | | |
| Aug-21 | | | | | | | | |
| Sep-21 | | | | | | | | |
| Oct-21 | | | | | | | | |
| Nov-21 | | | | | | | | |
| Dec-21 | | | | | | | | |
| Total-21 | | | | | | | | |
| Jan-22 | | | | | | | | |
| Feb-22 | | | | | | | | |
| Mar-22 | | | | | | | | |
| Apr-22 | | | | | | | | |
| Мау-22 | | | | | | | | |
| Jun-22 | | | | | | | | |
| Jul-22 | | | | | | | | |
| Aug-22 | | | | | | | | |
| Sep-22 | | | | | | | | |
| Oct-22 | | | | | | | | |
| Nov-22 | | | | | | | | |
| Dec-22 | | | | | | | | |
| Total-22 | | | | | | | | |

^{*}Effective 7/1/16 Norgaard North changed name to Lincoln Heights Wind Holdings South LLC.

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 10 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - JJN Windfarm, LLC. 2022 AAA Period

[PROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 11 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Ulik 2022 AAA Period

[PROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 12 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Ewington 2022 AAA Period

IPROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 13 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Moraine II Wind LLC 2022 AAA Period

IPROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Prairie Rose 2022 AAA Period

[PROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 15 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Zephyr Wind, LLC 2022 AAA Period

[PROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 16 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Big Blue Wind Farm 2022 AAA Period

[PROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Valley View Wind 2022 AAA Period

[PROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 18 of 26

Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Ridgewind Power Partners LLC
2022 AAA Period

IPROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Grant County Wind LLC 2022 AAA Period

[PROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 20 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Adams Wind Generations 2022 AAA Period

[PROTECTED DATA BEGINS

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

Docket No. E002/AA-21-295 True-up Report Part C, Attachment 2 Page 21 of 26

Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Odell 2022 AAA Period

IPROTECTED DATA BEGINS

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

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Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Woodstock Hills
2022 AAA Period

[PROTECTED DATA BEGINS

| | Date | Paid | Wind Produ | ction Delivered | Lost Production | | | |
|------------|-----------|------|------------|-----------------|-----------------|-------------|--------|-------------|
| | | | | Amount | | Amount | | Total |
| Production | Delivered | Lost | MWh | Xcel Energy | | Xcel Energy | Reason | Xcel Energy |
| Month | MWh | MWh | Delivered | Paid | Lost MWh | Paid | Codes | Paid |
| | | | | | | | | |
| Jan-21 | | | | | | | | |
| Feb-21 | | | | | | | | |
| Mar-21 | | | | | | | | |
| Apr-21 | | | | | | | | |
| May-21 | | | | | | | | |
| Jun-21 | | | | | | | | |
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| Aug-21 | | | | | | | | |
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| Oct-21 | | | | | | | | |
| Nov-21 | | | | | | | | |
| Dec-21 | | | | | | | | |
| Total-21 | | | | | | | | |
| Jan-22 | | | | | | | | |
| Feb-22 | | | | | | | | |
| Mar-22 | | | | | | | | |
| Apr-22 | | | | | | | | |
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| Jun-22 | | | | | | | | |
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| Sep-22 | | | | | | | | |
| Oct-22 | | | | | | | | |
| Nov-22 | | | | | | | | |
| Dec-22 | | | | | | | | |
| Total-22 | | | | | | | | |
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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Cisco 2022 AAA Period

[PROTECTED DATA BEGINS

| | Date | Paid | Wind Produ | ction Delivered | Lost Production | | | |
|------------|-----------|------|------------|-----------------|-----------------|-------------|--------|-------------|
| | | | | Amount | | Amount | | Total |
| Production | Delivered | Lost | MWh | Xcel Energy | | Xcel Energy | Reason | Xcel Energy |
| Month | MWh | MWh | Delivered | Paid | Lost MWh | Paid | Codes | Paid |
| | | | | | | | | |
| Jan-21 | | | | | | | | |
| Feb-21 | | | | | | | | |
| Mar-21 | | | | | | | | |
| Apr-21 | | | | | | | | |
| May-21 | | | | | | | | |
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| Dec-21 | | | | | | | | |
| Total-21 | | | | | | | | |
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| Oct-22 | | | | | | | | |
| Nov-22 | | | | | | | | |
| Dec-22 | | | | | | | | |
| Total-22 | | | | | | | | |
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Northern States Power Company
Electric Utility - State of Minnesota
Wind Curtailment Summary Report - Crowned Ridge
2022 AAA Period

[PROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Glen Ullin 2022 AAA Period

[PROTECTED DATA BEGINS

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

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Northern States Power Company Electric Utility - State of Minnesota Wind Curtailment Summary Report - Dakota Range III 2022 AAA Period

[PROTECTED DATA BEGINS

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

PROTECTED DATA ENDS]

Wind Curtailment Summary Report - Company Owned Facilities 2022 AAA Reporting Period

| | | | | | | | MWh Curtai | led | | | | | |
|---|---------|----------|--------|--------|---------|-------|------------|--------|-----------|---------|----------|----------|------------|
| Project | January | February | March | April | May | June | July | August | September | October | November | December | 2022 Total |
| Blazing Star 1 | 664 | 393 | 315 | 3,488 | 1,709 | 48 | 68 | 101 | 0 | 9 | 2 | 12 | 6,809 |
| Blazing Star 2 | 620 | 360 | 380 | 1,679 | 461 | 22 | 49 | 67 | 0 | 6 | 0 | 17 | 3,661 |
| Border | 0 | 0 | 2,315 | 135 | 98 | 1,027 | 234 | 26 | 5,834 | 67 | 62 | 38 | 9,836 |
| Lake Benton II (Buffalo Ridge / Chanarambie) | 115 | 17 | 256 | 1,442 | 103 | 371 | 62 | 248 | 38 | 122 | 663 | 373 | 3,810 |
| Community Wind North | 0 | 11 | 2 | 44 | 9 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 69 |
| Courtenay | 299 | 13 | 31 | 0 | 1,809 | 2,175 | 14 | 24 | 453 | 6 | 11 | 34 | 4,868 |
| Crowned Ridge II | 39,258 | 1,604 | 3 | 16,812 | 12,479 | 2,739 | 747 | 299 | 3,140 | 107 | 168 | 115 | 77,472 |
| Dakota Range 1&2 | 30,178 | 8,125 | 3,020 | 2,077 | 12,645 | 2,159 | 606 | 1,758 | 2,415 | 720 | 334 | 374 | 64,410 |
| Foxtail | 4,898 | 25,651 | 15,114 | 5,903 | 10,740 | 4,917 | 3,302 | 506 | 6,217 | 11,610 | 18,386 | 9,813 | 117,057 |
| Freeborn | 5,394 | 23,493 | 12,733 | 35,399 | 586 | 2,307 | 120 | 441 | 8 | 0 | 46 | 3,134 | 83,661 |
| Grand Meadow | 101 | 1,551 | 396 | 3,081 | 5,301 | 979 | 9 | 0 | 1,096 | 649 | 206 | 481 | 13,849 |
| Jeffers | 191 | 339 | 59 | 237 | 845 | 278 | 1 | 24 | 2 | 205 | 0 | 0 | 2,183 |
| Mower County | 0 | 1,177 | 292 | 4 | 773 | 15 | 654 | 326 | 0 | 0 | 0 | 0 | 3,240 |
| Noble | 9,996 | 34,223 | 28,533 | 44,036 | 21,489 | 7,944 | 4,146 | 795 | 4,190 | 25,595 | 36,032 | 6,706 | 223,684 |
| Pleasant Valley | 1 | 89 | 4 | 72 | 1,153.0 | 19.9 | 0.0 | 5.1 | 0.0 | 0.0 | 40.1 | 1,033.1 | 2,417 |

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Plant Operations and Maintenance

The Commission's March 15, 2010 ORDER ACTING ON ELECTRIC UTILITIES' ANNUAL REPORTS AND SETTING FURTHER REQUIREMENTS in Docket No. E999/AA-08-995 and April 6, 2012 ORDER ACTING ON ELECTRIC UTILITIES' ANNUAL REPORTS AND REQUIRING ADDITIONAL FILINGS in Docket Nos. E999/AA-09-961 and E999/AA-10-884 require utilities to provide additional details about plant forced outages, contractor performance, and actions taken to prevent future outages. We provide this information below.

A. Forced Outages

Part C, Attachment 4 provides for each forced outage during the 2022 AAA reporting year the following details: ¹

- a description of the equipment that resulted in the forced outage;
- a description of the equipment failure;
- the change in energy costs resulting from the outage;
- the failure history during the reporting period; and
- the steps taken to alleviate reoccurrence of the outage.

In addition, Part C, Attachment 5 provides a comparison of forecasted outage costs by unit to actual outages experienced.

B. Contractor Performance

Xcel Energy continues to prioritize its careful oversight of contractor and supplier performance. The Company focuses on three areas, as discussed further below.

First, Xcel Energy uses a quality assurance and control protocol for the majority of our contracts. This proactive approach is designed to draw attention to the required quality steps Xcel Energy expects each contractor to follow.

Second, Xcel Energy has awarded several master agreements with companies that consistently exceed others in technology, quality and contract management (including following the Scope of Work).

¹ The information is presented in Minnesota Power's Attachment A outage report format, as specified by the Department in its June 5, 2013 review of utilities' 2011-2012 AAA Reports.

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Third, Xcel Energy has invested time and resources to develop more detailed Scopes of Work. Scopes of Work are included in the purchase order and set the expectation for the work. Detailed scopes of work yield an acceptable work product, favorable project scheduling, and reduced unit outage extensions.

In the event problems arise with services, equipment, and/or materials provided by a vendor/supplier, the Company utilizes a Non Conformance Reporting Process to correct deficiencies. In addition, special conditions that hold suppliers and contractors accountable for quality management are placed in all contracts. Remedies for problems that adversely affect generating plant performance can include the direct costs of re-work, including labor and/or materials.

The Company strives to contract for generation plant repair and maintenance services with parties who have a history of performing work safely, reliably, and in a timely manner.

C. Operational Initiatives

As we have stated in prior AAA reports, we have several operational improvement initiatives at work under the Generation Operating Model Initiative. The Generation Operating Model I launched in 2011 was successful in its purpose to standardize processes, create efficiencies, and identify and share best practices across the fleet. This success led to the development and implementation of the Generation Operating Model II in 2019.

A significant organizational change in the Generation Operating Model II was the creation of the Performance Optimization department that centralizes technical support services to correspond to the evolving generation portfolio. The Performance Optimization department is comprised of Reliability Engineering, Fleet Engineering, and Analytics & Practices. A brief explanation of each Performance Optimization area follows.

• The Reliability Engineering department is responsible for the daily engineering activities at our plants and provides on-site support. The Reliability Engineers ensure our plant design basis is maintained and a consistent asset strategy is implemented across the fleet and for similar generations types.

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- The Fleet Engineering department is responsible for developing and implementing asset and equipment strategies consistently across the fleet. This department is broken into fleet engineering teams for common systems including Electrical and Controls, Boilers and Balance of Plant, Steam Turbines, Gas Turbines, Materials Engineering, and Non-Destructive Examination and Testing. This department also includes an Asset Strategy and Budget Integration team to ensure that fleet asset strategies are effectively integrated and prioritized.
- The Analytics and Practices department includes both a Monitoring and Diagnostics team and a System and Equipment Analytics team. The Monitoring and Diagnostics team utilizes the Company's remote monitoring capability and predictive analytics to identify abnormal operational issues and alert plant personnel for corrective actions prior to failure. The System and Equipment Analytics team integrates equipment monitoring, asset performance management analytical tools, and financial analysis.

The key focus of the 2019 Operations Model II is continuous improvement. Continuous Improvement is accomplished by utilizing Lean Management (people-based tools to improve processes, inventory management, and customer relationships); standardized Event Assessments and Root Cause Analysis (process that identifies forced outages and equipment failure to prevent recurrence); and Operating Model Governance (monitoring, documenting, and resolving issues that arise while improving performance).

Lastly, as we mature in our use of the Operating Model II, we have implemented the GE Asset Performance Management (GE-APM) software that leverages technology to effectively enable Asset Performance Management. It consolidates and analyzes data from a variety of sources to optimize the cost, risk, and reliability of selected generation equipment. Outputs of GE-APM include optimized equipment maintenance strategies and the development of Intelligent Asset Health and Operational Risk analytical models and dashboards.

D. Generation Maintenance Costs

The Commission's February 6, 2008 ORDER ACTING ON ELECTRIC UTILITIES' ANNUAL REPORTS, REQUIRING FURTHER FILINGS, AND AMENDING ORDER OF DECEMBER 20, 2006 ON PASSING MISO DAY 2 COSTS THROUGH FUEL CLAUSE in

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Docket Nos. E,G999/AA-06-1208 and E002/M-04-1970 *et al.* requires utilities to provide a comparison of the actual expenses pertaining to maintenance of generation plants to the generation maintenance budget from the utility's most recent rate case. We provide this information as Part C, Attachment 6.

Northern States Power Company State of Minnesota-Electric Operations Unit Forced Outage Information 2022 AAA Reporting Period: January 1 - December 31, 2022

| Protected Data | is Shaded Outage | Primary Reason for | Outage Dates | Duration | Equipment that resulted | Description of | [PROTECTED DATA BEGINS Failure History | Steps Taken to Alleviate Reoccurrence |
|----------------|---------------------|--|---------------------|----------|--|---|--|--|
| Unit | Category | Unplanned Outage | Start End | (Days) | in the forced outage | | Energy Costs (\$s) During Reporting Period | |
| King_G1 | Forced | High vibs on 12 BFP | 1/1/2022 1/31/2022 | 31 | 12 steam driven boiler feed pump | Degradation of rotating element | Similar derates were reported during this time period on 2/1/22, 3/1/22, 6/17/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22. All events were to support the repairs of this one (#12) BFP. Similar occurrences on 8/29/22 and 10/23/22 for Unit | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022 allowing equipment to run until retirement in 2028. |
| SHERCO_G2 | Forced | Derate due to 5 Coal Mill operation (21 Hot Air Blast Gate issue & 24 Mills OOS). | 1/1/2022 1/6/2022 | 5 | 21 and 24 Coal Mills | 24 Coal Mill removed from service due to metal shavings found in oil system. 21 Coal Mill failed due to loss of signal from Hot Air Blast Gate. Found a failed control signal cable that required replacement. | 1, 6/1/22, 7/25/22, 8/26/22, 10/25/22, 11/7/22, 11/8/22, and 12/14/22 for Unit 2, and 12/30/22 for Unit | t With 24 Coal Mill being in an emergency use only status, all future work, both planne and unexpected maintenance, on U2 coal mills will result in a derate. |
| SHERCO_G1 | Forced | Derate due to loss of 11 coal feeder, no ability to add to current silo levels until repair is completed | 1/1/2022 1/2/2022 | 2 | 11 Transfer Hopper Feeder | Loss of 11 coal feeder due to failure of feeder belt tail pulley. This prevented coal from being delivered to 4 of 7 coal mills until repaired. | Similar derates were reported during this time period on 1/3/22, 3/7/22 and 11/20/22. | Tail pulley was replaced and belt was aligned. |
| SHERCO_G2 | Forced | Immediate derate due to loss of 22 coal feeder. Only 2 coal mills available for use. | 1/1/2022 1/2/2022 | 1 | 22 Coal Feeder | 24 Coal Mill removed from service due to metal shavings found in oil system. Loss of coal flow to 22 feeder due to frozen coal plugging outlet from 22 Coal Silo. | Used air blasters to clear plugged coal to return flow to 22 feeder. | With 24 Coal Mill being in an emergency use only status, all future work, both planne and unexpected maintenance, on U2 coal mills will result in a derate. |
| Blk_Dog_G52 | Forced | U2 trip due to generator protection relay (59N)-Ground on Isophase Bus insulation | 1/2/2022 1/18/2022 | | Section of bus bar from U2 generator to U2 GSU transformer. | Insulation failure of the bus bar section resulted in a path to ground which prevented the unit from operating. | Two events in January from this same failure. First repair attempt was unsuccessful, second repair was successful. Equipment was then replaced in May 2022. | Damaged section of bus bar was fixed temporarily in January 2022 and then replaced in May 2022. |
| SHERC3 | Forced | Derate due to loss of additional additive feed pump. Only have 4 operational SDA's at this time. | 1/2/2022 1/3/2022 | 1 5 | Spray Dryer Absorbers (SDAs) | 31 SDA out of service due to failed additive feed pump, 32 SDA out of service due to plugged head tank screen, 33 SDA out of service due to failed additive feed pump and 36 SDA out of service due to high bearing temperatures. | Similar events on 3/13/2022 and 12/20/22. All events were related to number of available SDA's and how many are necessary for full load operation to maintain available environmental limits. | Repairs were prioritized to restore additive feed flow to 2 SDA's to allow unit to return to full power operations. |
| SHERCO_G1 | Forced | U1 Derate to 260 MWn due to the loss of 11 coal feeder. | 1/3/2022 1/6/2022 | 3 | 11 Transfer Hopper Feeder | Loss of 11 coal feeder due to failure of welds on belt head pulley. This prevented coal from being delivered to 4 of 7 coal mills until repaired. | Similar derates were reported during this time period on 1/1/22, 3/7/22 and 11/20/22. | Welds were repaired, failed head pulley was replaced and belt was re-aligned. |
| SHERCO_G1 | Forced | Derate due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 1/6/2022 1/31/2022 | 25 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | Similar derates were reported during this time period on 2/1/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of 12 Boiler Circ Pumps. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issue an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly |
| King_G1 | Forced | Secondary superheat leak 2 secondary 7 reheat | 1/6/2022 1/12/2022 | 6 | Secondary super heat boiler tube that failed | Tube had been fatigued over years and cut other tubes by orginal leak | None | Tube was repaired, increased inspection of the tube that failed, with plan for replacement if any other wear detected. |
| SHERCO_G2 | Forced | 212 Mod OOS Major Clean, 203 Mod OOS reaction tank relining, and 204 module OOS spray pump failure. | 1/17/2022 1/18/2022 | 1 \$ | Scrubber Modules | 212 Module was removed from service for major clean, 203 module out of service for reaction tank relining and 204 module experienced a spray pump failure. Unit unable to make full load with more than 2 modules out of service. | module cleaning and flushing with two or more modules previously out of service. Derating supports meeting environmental opacity limits. | Cleaning frequency for each scrubber module (12 total per unit) has increased from once a year to once every 8 months. This strategy will still require some smaller |
| Blk_Dog_G52 | Forced | Unit 2 trip due to generator protection relay-Ground on isophase Busbar due to failed isulator | 1/20/2022 1/29/2022 | | Section of bus bar from U2 generator to U2 GSU transformer. | Insulation failure of the bus bar section resulted in a path to ground which prevented the unit from operating. | Two events in January from this same failure. First repair attempt was unsuccessful, second repair was successful. Equipment was then replaced in May 2022. | Damaged section of bus bar was fixed temporarily in January 2022 and then replaced in May 2022. |
| Monticello_1 | Forced | Drywell leakage forced outage to repair XR-7-2 | 1/24/2022 1/27/2022 | 3 | Recirculating Loop Drain Valve | Body to Bonnet leak on the Recirculating Loop Drain Valve | None | Valve was disassembled and repaired. |
| King_G1 | Forced | High vibs on 12 BFP extended | 2/1/2022 2/28/2022 | 28 | 12 steam driven boiler feed pump | Degradation of rotating element | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22 . All events were to support the repairs of this one (#12) BFP. | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022 allowing equipment to run until retirement in 2028 |
| SHERCO_G1 | Forced | Derate due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 2/1/2022 2/28/2022 | 28 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | Similar derates were reported during this time period on 1/6/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issue an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the |
| SHERC3 | Forced | Derate due to an apparent tube leak on 36-1 HP Feedwater heater requiring feedwater string to be taken out of service. | 2/11/2022 2/28/2022 | 17 3 | 36-1 Feedwater Heater (FWH) | During operation of Unit 3, operations personnel noted emergency dump valve opening to maintain level in 36-1 feedwater heater due an apparent tube leak. Heater string was isolated and a tube leak was verified in 36-1 feedwater heater. Unit derated due to feedwater heater string out of service. | Similar events on 3/1/2022, 3/16/22, 11/27/2022, and 12/1/22. All events were related to leaking tubes 36 Feedwater Heaters at their end of life. | mandated boiler inspection in September. Heater will be repaired and remaining tube will have eddy current testing performed to determine if there are any other suspectable tubes. |
| King_G1 | Forced | Feedwater pump | 2/18/2022 2/22/2022 | 4 | 13 steam driven boiler feed pump | First stage of pump element crack | Similar event on 2/22/2022 | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022 allowing equipment to run until retirement in 2028 |
| King_G1 | Forced | Feedwater pump | 2/22/2022 2/28/2022 | 6 | 13 steam driven boiler feed pump | First stage of pump element crack | Similar event on 2/18/2023 | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022 allowing equipment to run until retirement in 2028 |
| King_G1 | Forced | High vibs on 12 BFP | 3/1/2022 3/31/2022 | 31 | 12 steam driven boiler feed pump | Degradation of rotating element | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22. All events were to support the repairs of this one (#12) BFP. | |
| SHERCO_G1 | Forced | Derate due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 3/1/2022 3/7/2022 | 7 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/9/22, 3/11/22, 6/1/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issue an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly |
| SHERC3 | Forced | Apparent tube leak on 36-1 HP Feedwater heater requiring feedwater string to be taken out of service. | 3/1/2022 3/13/2022 | 13 (| 36-1 Feedwater Heater (FWH) | During operation of Unit 3, operations personnel noted emergency dump valve opening to maintain level in 36-1 feedwater heater due an apparent tube leak. Heater string was isolated and a tube leak was verified in 36-1 feedwater heater. Unit derated due to feedwater heater string out of service. | Similar events on 2/11/22, 3/16/22, 11/27/2022, and 12/1/22. All events were related to leaking tubes. 36 Feedwater Heaters at their end of life. | Heater string removed from service and unit derated until a favorable market condition would allow for unit to be taken offline to repair the tube leak. Working with marketing determined that the best time for this would be during the planned outage for state mandated boiler inspection in September. Heater will be repaired and remaining tube will have eddy current testing performed to determine if there are any other suspectable tubes. |
| SHERCO_G1 | Forced | Derate needed for three mills available. 11 transfer hopper feeder tail pulley issues, not able to fill bottom four silos. | 3/7/2022 3/8/2022 | 1 | 11 Transfer Hopper Feeder | Loss of 11 coal feeder due to failure of feeder belt tail pulley. This prevented coal from being delivered to 4 of 7 coal mills until repaired. | Similar derates were reported during this time period on 1/1/22 and 1/3/22. | Modifications were made to the drag chain system for cleaning out area around the belts which led to belt misalignment and tail pulley failure. Tail pulley was replaced ar belt re-algined. |
| SHERCO_G1 | Forced | Derate due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 3/9/2022 3/10/2022 | 1 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/11/22, 6/1/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issue an inspection report on 5/18/22 which showed damage to both the pump assembly as |

Northern States Power Company State of Minnesota-Electric Operations Unit Forced Outage Information 2022 AAA Reporting Period: January 1 - December 31, 2022

| Protected Da | Outage | Primary Reason for | Outage | | Duration | Equipment that resulted | | [PROTECTED DATE Change in | Failure History | Steps Taken to Alleviate Reoccurrence |
|----------------|----------|--|-----------|-----------|----------|--|---|-----------------------------|--|--|
| Unit | Category | Unplanned Outage | Start | End | (Days) | in the forced outage | | Energy Costs (\$s) | During Reporting Period | Pump/Motor assemble required an outage to remove, install the blank and send to |
| SHERCO_G1 | Forced | Derate due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 3/11/2022 | 3/31/2022 | 21 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 6/1/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as |
| SHERC3 | Forced | Derated needed with four SDA'a available. 32 & 36 held out, 31 restricted flow, 34 HI/low spindle sump alarm in. | 3/13/2022 | 3/16/2022 | 3 | Spray Dryer Absorbers (SDAs) | 32 and 36 SDA's motors were removed for maintenance. 31 SDA out of service due to low additive feed flow, 34 SDA removed from service due to leak in water wheel protection to the SDA spindle. | | Similar events on 3/1/2022 and 12/20/22. All events were related to number of available SDA's and how many are necessary for full load operation to maintain available environmental limits. | Repairs were prioritized to restore additive feed flow to 31 SDA and repair the leak in 34 SDA to return 2 SDA's to service, allowing unit to return to full power operations. |
| SHERC3 | Forced | Apparent tube leak on 36-1 HP Feedwater heater requiring feedwater string to be taken out of service | 3/16/2022 | 3/31/2022 | 15 | 36-1 Feedwater Heater (FWH) | During operation of Unit 3, operations personnel noted emergency dump valve opening to maintain level in 36-1 feedwater heater due an apparent tube leak. Heater string was isolated and a tube leak was verified in 36-1 feedwater heater. Unit derated due to feedwater heater string out of service. | | Similar events on 2/11/22, 3/1/2022, 11/27/22, and 12/1/22. All events were related to leaking tubes in 36 Feedwater Heaters at their end of life. | Heater string removed from service and unit derated until a favorable market condition would allow for unit to be taken offline to repair the tube leak. Working with marketing determined that the best time for this would be during the planned outage for state mandated boiler inspection in September. Heater will be repaired and remaining tubes will have eddy current testing performed to determine if there are any other suspectable tubes. Pump/Motor assemble required an outage to remove, install the blank and send to |
| SHERCO_G1 | Forced | Derated and available for 610 MWn due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service | 6/1/2022 | 6/30/2022 | 30 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 3/11/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly |
| SHERCO_G2 | Forced | Derate due to 5 Coal Mill operation. 24 & 27 Coal Mills out of service (27 Mill coal leaks on transport lines). | 6/1/2022 | 6/6/2022 | 6 | 24 and 27 Coal Mills | 24 Coal Mill removed from Service due to metal shavings found in oil system. 27 Coal Mill hot air blast gate cylinder failed requiring coal mill to be shut down for replacement. | | Similar occurrences on 8/29/22 and 10/23/22 for Unit 1, 1/1/22,7/25/22, 8/26/22, 10/25/22, 11/7/22, 11/8/2 and 12/14/22 for Unit 2, and 12/30/22 for Unit 3. Derates due to having more than one coal mill out of service preventing the unit from making full load capability. | |
| King_G1 | Forced | Derate of King due to feedwater constraints. Current load range of 380-435 MW Net available on AGC. | 6/17/2022 | 6/30/2022 | 13 | 12 steam driven boiler feed pump | Degradation of rotating element | | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22. All events were to support the repairs of this one (#12) BFP. | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022, allowing equipment to run until retirement in 2028 |
| King_G1 | Forced | Derate of King due to feedwater constraints. | 7/1/2022 | 7/2/2022 | 2 | 12 steam driven boiler feed pump | Degradation of rotating element | | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22. All events were to support the repairs of this one (#12) BFP. | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022, allowing equipment to run until retirement in 2028 |
| SHERCO_G1 | Forced | Derated due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 7/1/2022 | 7/26/2022 | 25 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| King_G1 | Forced | Derate of King due to feedwater constraints. | 7/17/2022 | 7/29/2022 | 12 | 12 steam driven boiler feed pump | Degradation of rotating element | | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22. All events were to support the repairs of this one (#12) BFP. | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022, |
| SHERCO_G2 | Forced | Leak between 22 CMill Feeder and 22 Coal Mill, also OOS with Bearing issue. | 7/25/2022 | 7/28/2022 | 3 | 22 and 24 Coal Mills | 24 Coal Mill removed from Service due to metal shavings found in oil system. Coal leak was discovered on coal transport line for 22 coal mill requiring mill to be removed from service to prevent creating a combustible dust concerns. | | Similar occurrences on 8/29/22 and 10/23/22 for Unit 1, 1/1/22, 6/1/22, 8/26/22, 10/25/22, 11/7/22, 11/8/22 and 12/14/22 for Unit 2, and 12/30/22 for Unit 3. Derates due to having more than one coal mill out of service preventing the unit from making full load capability. | |
| SHERCO_G1 | Forced | Derated and available for 610 MWn due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 7/27/2022 | 7/31/2022 | 4 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, 7/1/22, 8/1/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22 | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| King_G1 | Forced | High Circulating Water Temperature | 7/29/2022 | 7/31/2022 | 3 | 12 Circulating water booster pump | Discharge valve on booster failed | | None | New valve ordered and planned to be installed the Spring of 2023 |
| King_G1 | Forced | Derate of King due to feedwater constraints. | 8/1/2022 | 8/21/2022 | 20 | 12 steam driven boiler feed pump | Degradation of rotating element | | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22. All events were to support the repairs of this one (#12) BFP. | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022, |
| SHERCO_G1 | Forced | Derated and available for 610 MWn due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 8/1/2022 | 8/2/2022 | 2 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, 7/1/22, 7/27/22, 8/4/22, 8/12, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| CC Highbridge2 | Forced | Reheat tube leak on HRSG 7 requires weld repair and post weld heat treat. Results in a derate of 9ST. | 8/2/2022 | 8/5/2022 | 3 | HRSG 7 reheat section lower header drain connection. | Drain to header fatigue crack. | | None | Fleet Engineering considering redesign of drain to header connection. |
| SHERCO_G1 | Forced | Derated and available for 610 MWn due to loss of 12 Boiler Circ Pump. 3 of 4 BCPs available for service. | 8/4/2022 | 8/11/2022 | 7 | 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | one (#12) circ pump. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| SHERCO_G1 | Forced | Derate needed for 11 ID Fan inlet damper linkage failed. | 8/11/2022 | 8/12/2022 | 1 | 11 Induced Draft Fan | 11 Induced Draft Fan inlet damper linkage broke requiring fan to be taken out of service. | | Similar occurences were reported during this time period on 11/1/22, 11/23/22 and 12/2/22 to support the repairs of 13 ID Fan. Similar occurence on 12/1/23 for 24 Induced Draft Fan. | Domner linkers was renaired and the ID for was returned to normal energical |

Northern States Power Company State of Minnesota-Electric Operations Unit Forced Outage Information 2022 AAA Reporting Period: January 1 - December 31, 2022

| 2022 AAA Kepo | rting Period: Jar | nuary 1 - December 31, 2022 | | | | | | | |
|---------------|-------------------|--|-----------------|--------------|---|---|---|--|--|
| Protected Da | Outage | Primary Reason for Unplanned Outage | Outage Start | | ration Equipment that resulted | Description of | [PROTECTED DAT | Failure History | Steps Taken to Alleviate Reoccurrence |
| SHERCO_G1 | Forced | Derated and available for 610MWn due to loss of 12 boiler circ pump. 3 out of 4 available for service. | | 2. 8/16/2022 | 4 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | Energy Costs (\$s) | During Reporting Period Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/17, 9/1/22 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| SHERC3 | Forced | Unit offline @ 0200 on 8/16 to allow for steam leak repairs. | 8/16/2022 | 8/22/2022 | 6 Boiler Blowdown Line | Coupling TEAM installed to try to inject vavles that were leaking by to stop leakage failed resulting in an unisolable steam leak. During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the | | Similar events on 8/16/22, 8/22/22, 10/7/22 and 11/4/22. Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, | Affected piping and valves were replaced. Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued |
| SHERCO_G1 | Forced | Derated and available for 610MWn due to loss of 12 boiler circ pump. 3 out of 4 available for service. | 8/17/2022 | 8/29/2022 | 12 12 Boiler Circ Pump | pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 9/1/22 and | an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| SHERC3 | Forced | During U3's start-up process a steam leak was discovered in the West Main-steam line. | 8/22/2022 | 8/26/2022 | 4 Main Steam Line | Gamma inspection plug on one of the main steam lines developed ar unisolable steam leak. | ו | Similar events on 8/16/22, 8/22/22, 10/7/22 and 11/4/22. | Failed weld was excavated and repaired. Additionally, excavated and re-welded similar gamma inspection plugs to prevent future failure of those gamma plugs. |
| SHERCO_G2 | Forced | Derate unit to HOL of 565 MWn due to 24 Coal Mill out of service and 26 Coal Mill taken out of service. | 8/26/2022 | 8/30/2022 | 4 24 and 26 Coal Mills | 24 Coal Mill removed from Service due to metal shavings found in oil system. Failure of 26 Coal Mill's classifier belt resulted in a derate until the belt could be replaced. | | 3. Derates due to having more than one coal mill out o service preventing the unit from making full load capability. | With 24 Coal Mill being in an emergency use only status, all future work, both planned and unexpected maintenance, on U2 coal mills will result in a derate. |
| SHERCO_G1 | Forced | 5 coal mills available due to leak repairs needed on 11 and 14 Coal Mills. | 8/29/2022 | 8/31/2022 | 2 11 and 14 Coal Mills. | Coal leaks were discovered on transport lines 11 and 14 coal mills requiring mills to be removed from service to prevent creating a combustible dust concerns. | | Similar occurrences on 10/23/22 for Unit 1, 1/1/22, 6/1/22, 7/25/22, 8/26/22, 10/25/22, 11/7/22, 11/8/22, and 12/14/22 for Unit 2, and 12/30/22 for Unit 3. Derates due to having more than one coal mill out of service preventing the unit from making full load capability. | Coal mills removed proactively to prevent creation of a combustible dust condition due to coal leaks. Leaks were repaired and mills returned to service. |
| SHERCO_G2 | Forced | Unit offline to address plugging of the bottom ash system internal to the units bottom ash hoppers. | 9/1/2022 | 9/24/2022 | 24 Bottom Ash Hoppers | Plugging on all 6 bottom ash hoppers and failure of multiple crushers required unit to be removed from service to restore bottom ash system. | | None | Bottom ash was cleaned, crusher maintenance was performed and refractory was repaired to get bottom ash system in a condition to run to end of life. |
| SHERCO_G1 | Forced | Derated and available for 610 MWn due to loss of 12 boiler circ pump. 3 of 4 available for service. | 9/1/2022 | 9/7/2022 | 6 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | Similar derates were reported during this time period on 1/6/22, 2/1/22, 3/1/22, 3/9/22, 3/11/22, 6/1/22, 7/1/22, 7/27/22, 8/1/22, 8/4/22, 8/12, 8/17 and 9/10/22. All events were to support the repairs of this one (#12) circ pump. | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| King_G1 | Forced | Derate of King due to feedwater constraints. Current load range of 380-435 MW Net available on AGC. | 9/2/2022 | 9/18/2022 | 16 12 steam driven boiler feed pump | Degradation of rotating element | Similar derates were reported during this on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/28/1/22, 9/2/22, 9/20/22, and 10/1/22. All to support the repairs of this one (#12) B | | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022, allowing equipment to run until retirement in 2028 |
| SHERCO_G1 | Forced | Derate due to Opacity spikes, (102 mixer, 112 major clean, 105 purge air fan, and flushing) | 9/7/2022 | 9/10/2022 | 3 Scrubber Modules | 112 Module was removed from service for major clean, 102 module mixer failed and 105 module purge air fan failed. Unit unable to make full load with more than 2 modules out of service. | | Similar occurrences on 9/7/22 for Unit 1 and 1/7/22, 10/1/22, 10/4/22, 10/26/22, 10/30/22 and 11/1/22 for Unit 2. Derates necessary to support daily module cleaning and flushing with two or more modules previously out of service. Derating supports meeting environmental opacity limits. | Cleaning frequency for each scrubber module (12 total per unit) has increased from once a year to once every 8 months. This strategy will still require some smaller derates to complete all required cleaning evolutions but these smaller derates should be limited mainly to the spring and fall when energy prices are historically less. There will also be derates due to loss of other module components during times which we need to have two major cleans in progress at once due to the loss of redundancy. |
| SHERC3 | Forced | Unit tripped while operating at the low operating limit due to loss of all 4 ID fans. Troubleshooting in progress. | 9/9/2022 | 9/16/2022 | 7 Induced Draft Fans and Main Turbine Generator | Lightening strike caused fuses to blow in 33 and 34 inverters causing all 4 ID fans to trip. During subsequent startup a significant rub developed in the turbine generator causing high vibrations. Off site technical was brought in to help troubleshoot and resolve the issue. | | None | Replaced fuses in inverters and recommenced startup. High vibrations on the turbine generator during subsequent startup required the turbine to be placed on the turning gear while troubleshooting activities took place to determine the cause. |
| SHERCO_G1 | Forced | Derated and available for 610 MWn due to loss of 12 boiler circ pump. Three of 4 available for service. | 9/10/2022 | 9/12/2022 | 2 12 Boiler Circ Pump | During normal operation of 12 BCP, the pump exhibited high vibrations and was removed from service. Investigation revealed the pump casing wear ring became liberated causing damage to the impeller and other pump/motor components. This required the pump/motor assembly to be sent offiste for repairs. With only 3 of 4 BCPs available, unit derated to 610 MWh. | | | Pump/Motor assemble required an outage to remove, install the blank and send to Hayward Tyler for evaluation, quote, rewind and repair. Decision was made to leave unit online during the the winter months. Outage was taken 4/18/22 and motor removed then sent offsite. Hayward Tyler received the assembly on 5/2/22 and issued an inspection report on 5/18/22 which showed damage to both the pump assembly as well as the motor rotor and stator assembly. Assembly shiped back to the site on 7/12/22. A decision was made to leave unit online through summer months. A maintenance outage was taken on 9/25/22 to remove the blank and reinstall the assembly. |
| SHERCO_G1 | Forced | Derate due to Opacity spikes. 10 scrubber modules available. | 9/12/2022 | 9/25/2022 | 13 Scrubber Modules | 112 Module was removed from service for major clean, 102 module mixer failed. Additional modules removed alternatively to perform daily flushing and cleaning. Unit unable to make full load with more than 2 modules out of service. | | Similar occurrences on 9/12/22 for Unit 1 and 10/1/22, 10/4/22, 10/26/22, 10/30/22 and 11/1/22. Derates necessary to support daily module cleaning and flushing with two or more modules previously out of service. Derating supports meeting environmental opacity limits. | Cleaning frequency for each scrubber module (12 total per unit) has increased from once a year to once every 8 months. This strategy will still require some smaller derates to complete all required cleaning evolutions but these smaller derates should be limited mainly to the spring and fall when energy prices are historically less. There will also be derates due to loss of other module components during times which we need to have two major cleans in progress at once due to the loss of reduncancy. |
| King_G1 | Forced | Startup Bypass System | 9/18/2022 | 9/20/2022 | 1 230D Flash tank drain to dearator valve | Valve stuck open due to faield mechanical operator | | None | Operator replaced and imporved operation with new operator to prevent failure |
| King_G1 | Forced | Derate of King due to feedwater constraints. Current load range of 380-435 MW Net available on AGC. | 9/20/2022 | 9/30/2022 | 11 12 steam driven boiler feed pump | Degradation of rotating element | | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, 9/20/22, and 10/1/22. All events were to support the repairs of this one (#12) BFP. | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022, allowing from equipment to run until retirement in 2028 |
| SHERCO_G2 | Forced | Unit 2 derated to HOL of 260 MW net. 22 FD fan out of service. AGC not available. | 9/24/2022 | 9/25/2022 | 1 22 Forced Draft Fan | 22 Forced Draft Fan had an 86 Lockout and 87-C target on the breaker. Investigation found faulty breaker. | | None Similar denates were reported during this time period | Replaced breaker with a spare to allow unit to return to normal fan configuration. |
| King_G1 | Forced | Derate of King due to feedwater constraints. | 10/1/2022 | 10/8/2022 | 8 12 steam driven boiler feed pump | Degradation of rotating element | | Similar derates were reported during this time period on 1/1/22, 2/1/22, 3/1/22, 6/17/22, 7/1/22, 7/17/22, 8/1/22, 9/2/22, and 9/20/22. All events were to support the repairs of this one (#12) BFP. | Both 12 and 13 BFP elements were replaced with rebuilt elements in the Fall of 2022, allowing equipment to run until retirement in 2028 |
| SHERCO_G2 | Forced | U2 derate due to 8 of 12 module availability. 206 and 210 modules OOS for major cleans. 208 module out for spray pp belts & tank cleaning. | 10/1/2022 | 10/4/2022 | 3 Scrubber Modules | 206 and 210 Modules were removed from service for major clean and 208 removed from service for reaction tank cleaning. Unit unable to make full load with more than 2 modules out of service. | | Similar occurrences on 9/7/22 and 9/12/22 for Unit 1 and 1/7/22, 10/4/22, 10/26/22, 10/30/22 and 11/1/22 for Unit 2. Derates necessary to support daily module cleaning and flushing with two or more modules previously out of service. Derating supports meeting environmental opacity limits. | Cleaning frequency for each scrubber module (12 total per unit) has increased from once a year to once every 8 months. This strategy will still require some smaller derates to complete all required cleaning evolutions but these smaller derates should be limited mainly to the spring and fall when energy prices are historically less. There will also be derates due to loss of other module components during times which we need to have two major cleans in progress at once due to the loss of reduncancy. |
| SHERCO_G2 | Forced | U2 derate due to 8 of 12 module availability. 206 and 210 modules OOS for major cleans. 208 module out for spray pp belts & tank cleaning. | 10/4/2022 | 10/7/2022 | 3 Scrubber Modules | 206 and 210 Modules were removed from service for major clean and 208 removed from service for reaction tank cleaning. Unit unable to make full load with more than 2 modules out of service. | | | Cleaning frequency for each scrubber module (12 total per unit) has increased from once a year to once every 8 months. This strategy will still require some smaller derates to complete all required cleaning evolutions but these smaller derates should be limited mainly to the spring and fall when energy prices are historically less. There will also be derates due to loss of other module components during times which we need to have two major cleans in progress at once due to the loss of reduncancy. |

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| March Marc | Stans Taken to Alloviate Peaceurrenes | C4 | | [PROTECTED DATA | Description of | Equipment that reculted | Duration | Dates | Outogo | Reason for | Driman: Da | | Protected Dat |
|---|--|--|--|---------------------------------|--|--|--------------------|------------|------------|--|---|--------------------|----------------|
| ## AND PROPERTY OF THE PROPERT | Steps Taken to Alleviate Reoccurrence | Stej | Failure History During Reporting Period | Change in Energy Costs (\$s) | • • • • • • • • • • • • • • • • • • • | Equipment that resulted in the forced outage | Duration (Days) | | | | | Outage Category | Unit |
| Company | for each scrubber module (12 total per unit) has incre- every 8 months. This strategy will still require some stall required cleaning evolutions but these smaller dera- he spring and fall when energy prices are historically ue to loss of other module components during times jor cleans in progress at once due to the loss of redur | once a year to once every a derates to complete all req be limited mainly to the sp will also be derates due to | milar occurrences on 9/7/22 and 9/12/22 for Unit 1 d 1/7/22, 10/1/22, 10/26/22, 10/30/22 and 11/1/22 Unit 2. Derates necessary to support daily module eaning and flushing with two or more modules eviously out of service. Derating supports meeting vironmental opacity limits. | S a f c F | 206 and 210 Modules were removed from service for major clean and 208 removed from service for reaction tank cleaning. Unit unable to make full load with more than 2 modules out of service. | - | | 10/22/2022 | 10/4/2022 | e availability. 206 and 210 . 208 module out for spray pp | U2 derate due to 8 of 12 module av modules OOS for major cleans. 208 belts & tank cleaning. | | SHERCO_G2 |
| 20.00000000000000000000000000000000000 | alve was replaced. | Affected piping and valve v | , , | | , , | Boiler Blowdown Line | 7 | 10/14/2022 | 10/7/2022 | m drum blowdown line requiring | | Forced | SHERC3 |
| March | with upgraded material. | Valve body replaced with ι | one | 1 | Valve body leak due to internal corrosion. | Unit 8 IP level control valve | 2 | 10/10/2022 | 10/8/2022 | ped a leak in the valve body. | · · · · · · · · · · · · · · · · · · · | Forced | CC Highbridge1 |
| Property | with upgraded material. | Valve body replaced with ι | one | N | <u> </u> | Unit 8 IP level control valve | 2 | 10/10/2022 | 10/8/2022 | | | Forced | CC Highbridge2 |
| Part | d breaker to return to normal operation. | Repaired and replaced bre | one | | breaker. Investigation found faulty breaker. | 12 Circulating Water Pump | 4 | 10/18/2022 | 10/14/2022 | c water pump during start up | | Forced | SHERCO_G1 |
| Column C | ance and Instrumentation & Control troubleshot and re e returned to service. | | | | seat drain to open. Unit derated until valve could be troubleshot and | ' | 1 | 10/16/2022 | 10/15/2022 | · | 1 | Forced | SHERC3 |
| Section Company Comp | | to full power operation. | 1/22, 7/25/22, 8/26/22, 10/25/22, 11/7/22, 11/8/22, d 12/14/22 for Unit 2, and 12/30/22 for Unit 3. erates due to having more than one coal mill out of rvice preventing the unit from making full load | 6 2 5 8 | Loss of 17 Coal feeder resulted in only 5 of 7 mills being available for | 12 and 17 Coal Mills | 2 | 10/25/2022 | 10/23/2022 | able. Unit in startup. | Derate due to 5 of 7 mills available | Forced | SHERCO_G1 |
| Part | confirm leak, brought in vendor to determine leaking maintenance plug the failed tubes. | | <u> </u> | | Condenser developed a tube leak as noticed by plant chemists. | Main Condenser Tubing | 3 | 10/28/2022 | 10/25/2022 | pair. Inner loop required OOS for | ` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | Forced | SHERCO_G1 |
| Part Company | ng in an emergency use only status, all future work, b | With 24 Coal Mill being in | 1/1/22, 6/1/22, 7/25/22, 8/26/22, 10/25/22, 11/7/22, /8/22, and 12/14/22 for Unit 2, and 12/30/22 for Unit Derates due to having more than one coal mill out of rvice preventing the unit from making full load | 1 1 3 8 | system. Failure of 27 Coal Mill silo fill gate preventing adding coal to 27 coal mill silo. Mill removed from service once silo emptied until | 24 and 27 Coal Mills | 1 | 10/26/2022 | 10/25/2022 | s OOS. 24 Cmill GB, 27 Cmill | Derate needed for two Coal Mills Of | Forced | SHERCO_G2 |
| Proof Description Proof Description | | once a year to once every derates to complete all req be limited mainly to the sp will also be derates due to | d 1/7/22, 10/1/22, 10/4/22, 10/30/22 and 11/1/22 for hit 2. Derates necessary to support daily module eaning and flushing with two or more modules eviously out of service. Derating supports meeting | la C | module mixer failed. Additional modules removed alternatively to perform daily flushing and cleaning. Unit unable to make full load | Scrubber Modules | 5 | 10/30/2022 | 10/26/2022 | | module out for mixer blade fail, one | Forced | SHERCO_G2 |
| Parcial Color Parcial | for each scrubber module (12 total per unit) has incresevery 8 months. This strategy will still require some stall required cleaning evolutions but these smaller derathe spring and fall when energy prices are historically use to loss of other module components during times jor cleans in progress at once due to the loss of redure | once a year to once every a derates to complete all req be limited mainly to the sp will also be derates due to | d 1/7/22, 10/1/22, 10/4/22, 10/26/22, and 11/1/22 Unit 2. Derates necessary to support daily module eaning and flushing with two or more modules eviously out of service. Derating supports meeting | a fi c | clean. Additional modules removed alternatively to perform daily flushing and cleaning. Unit unable to make full load with more than 2 | Scrubber Modules | 1 | 10/31/2022 | 10/30/2022 | | Mini Major cleans, 206 module OO | Forced | SHERCO_G2 |
| ## 10 by date of 2000/file requirements of 10 provided in the control of 10 provided in the cont | for each scrubber module (12 total per unit) has incre- every 8 months. This strategy will still require some s all required cleaning evolutions but these smaller dera he spring and fall when energy prices are historically ue to loss of other module components during times jor cleans in progress at once due to the loss of redur | once a year to once every a derates to complete all req be limited mainly to the sp will also be derates due to | d 1/7/22, 10/1/22, 10/4/22, 10/26/22, and 10/30/22 Unit 2. Derates necessary to support daily module eaning and flushing with two or more modules eviously out of service. Derating supports meeting | a fi c | clean. Additional modules removed alternatively to perform daily flushing and cleaning. Unit unable to make full load with more than 2 | Scrubber Modules | 6 | 11/7/2022 | 11/1/2022 | , | cleans, 206 module OOS Major cle | Forced | SHERCO_G2 |
| Part | challenged the return date for the ID fan motor to the work with their vendors to expedite completing the m | disassembled and found to sourcing delays have chall Electric continues to work | n. Similar occurences were reported during this time riod on 11/23/22 and 12/2/22 to support the repairs 13 ID Fan. Similar occurence on 12/1/23 for 24 duced Draft Fan. | I F | fan to be removed from service. Investigation found an 86 lockout and 50-2 lockout. The motor was meggered and found to be shorted to ground. Motor was removed and shipped off to L&S Electric on 11/23/22 for a motor rewind. | 13 Induced Draft Fan | 19 | 11/20/2022 | 11/1/2022 | | lockout & 50-2 ground). | Forced | SHERCO_G1 |
| ### 17 Cod Wills parking a read with a parking a read with a fine power of the 2 for 2 for making billion and a read of the 2 for 2 for making billion and a read of the 2 for 2 for making billion and a read of the 2 for 2 for making billion and a read of the 2 for 2 for making billion and a read of the 2 for 2 for making billion and a read of the 2 for 2 for 2 for making billion and a read of the 2 for 2 for 2 for making billion and a read of the 2 for 2 for 2 for making billion and a read of the 2 for 2 for 2 for 2 for 2 for 2 for 2 for 2 for 2 for 2 for 2 for 2 for 3 for 2 | vated and repaired. | Failed weld was excavated | /4/22. | | | High Pressure Extraction Line | 2 | 11/13/2022 | 11/4/2022 | • . | _ | Forced | SHERC3 |
| PIERCO_G2 Forced by and Force of 20 & 24 Coal Mills Forced by and Force | moved to emergency use only due to metal shavings ecision is made due to pending scheduled unit retiren | derated until repair decision | 1/1/22, 6/1/22, 7/25/22, 8/26/22, 10/25/22, 11/8/22, d 12/14/22 for Unit 2, and 12/30/22 for Unit 3. erates due to having more than one coal mill out of rvice preventing the unit from making full load pability. | 1 a E S | 0 1 | 22, 23 and 24 Coal Mills | 1 | 11/8/2022 | 11/7/2022 | | | Forced | SHERCO_G2 |
| SHERC3 Forced by the count of service receive with califum. In 15-2022 11/18/2022 | moved to emergency use only due to metal shavings ecision is made due to pending scheduled unit retiren | derated until repair decision | 1/1/22, 6/1/22, 7/25/22, 8/26/22, 10/25/22, 11/7/22, d 12/14/22 for Unit 2, and 12/30/22 for Unit 3. erates due to having more than one coal mill out of rvice preventing the unit from making full load | 1 a C s | · | 23 and 24 Coal Mills | 22 | 11/30/2022 | 11/8/2022 | | loss of 23 & 24 Coal Mills. | Forced | SHERCO_G2 |
| SHERCO_G1 Forced Sherce (and of devices receive sharked and purples per lateral purples of states for purple per lateral purples is liableing per lateral per late | to allow return to full power operation. | Repaired recirc valve to all | milar to event on 11/15/22 (supporting same repair) | 5 | | 33 Boiler Feed Pump | 1 | 11/15/2022 | 11/13/2022 | | | Forced | SHERC3 |
| Uniforce of control of the process o | to allow return to full power operation. Re-packed pro artup Feed Pump to being available for use. | | | | While running with 32 Boiler Feed Pump and 31 Startup Feed Pump, 31 Startup Feed Pump pre-warming valve developed a steam leak requiring pump to be removed from service. | 31 and 33 Boiler Feed Pumps | 3 | 11/18/2022 | 11/15/2022 | | taken out of service recirc valve faile | Forced | SHERC3 |
| SHERCO_G1 Forced U1 derate of \$35MWn needed for 13 ID Fan breaker fail (86 lockout and 50-2 ground). 5 13 Induced Draft Fan 11/23/2022 11/28/2 | · · | | 1/1/22, 1/3/22 and 3/7/22. | C | pulley. This prevented coal from being delivered to 3 of 7 coal mills until repaired. | 12 Transfer Hopper Feeder | 3 | 11/23/2022 | 11/20/2022 | | | Forced | SHERCO_G1 |
| SHERC3 Forced Fedwater Heater 36-2 developed a tube leak requiring that string to be taken out of service. SHERC9 Forced Derivate were related to loss of 22 ID fan outlet damper. 22 ID fan not available until damper is repaired. SHERC9 Forced SHERC9 Forced Derivate were related to loss of 22 ID fan outlet damper. 22 ID fan not available until damper is repaired. SHERC9 Forced SHERC9 Force | und to require a complete rewind. Materials shortages challenged the return date for the ID fan motor to the work with their vendors to expedite completing the m | disassembled and found to sourcing delays have chall Electric continues to work | n. Similar occurences were reported during this time riod on 11/1/22 and 12/2/22 to support the repairs of ID Fan. Similar occurence on 12/1/23 for 24 | 1 F F 1 | fan to be removed from service. Investigation found an 86 lockout and 50-2 lockout. The motor was meggered and found to be shorted to ground. Motor was removed and shipped off to L&S Electric on | 13 Induced Draft Fan | 5 | 11/28/2022 | 11/23/2022 | for 13 ID Fan breaker fail (86 | | Forced | SHERCO_G1 |
| SHERCO_G2 Forced Derate due to loss of 22 ID fan outlet damper. 22 ID fan not available until damper is repaired. 12/1/2022 13/1/2022 12/14/2022 13/14/20 | to from service and unit derated until a lavorable many of the best time for this would be during the planned outage ection in September. Heater will be repaired and remain testing performed to determine if there are any other | would allow for unit to be to determined that the best til mandated boiler inspection will have eddy current testi | milar events on 2/11/22, 3/1/2022, 3/16/22, and /1/22. All events were related to leaking tubes 36 edwater Heaters at their end of life. | 5 1 F | dump valve opening to maintain level in 36-2 feedwater heater due to an apparent tube leak. Heater string was isolated and a tube leak was verified in 36-2 feedwater heater. Unit derated due to feedwater | 36-2 Feedwater Heater (FWH) | 3 | 11/30/2022 | 11/27/2022 | ' ' | • | Forced | SHERC3 |
| SHERC3 Forced Fo | repaired and the ID fan was returned to normal opera | Damper linkage was repair | n. Similar occurences were reported during this time riod on 11/1/22, 11/23/22, and 12/2/22 to support | | , , , | 22 Induced Draft Fan | 13 | 12/14/2022 | 12/1/2022 | • | | Forced | SHERCO_G2 |
| SHERCO_G1 Forced Similar occurrence on 8/11/23 for 11 Induced Draft fan to be removed from service. Investigation found an 86 lockout and fan to be removed from service. Investigation found to be shorted to ground. Motor was removed and shipped off to L&S Electric on 11/23/22 for a motor rewind. Similar occurrence on 8/11/23 for 11 Induced Draft fan to be removed and shipped to L&S Similar occurrence on 8/11/23 for 11 Induced Draft fan to be removed during this time disassembled and found to require a complete sourcing delays have challenged the return day for 13 ID Fan. Similar occurrence on 11/1/23 for 24 12/2/2022 12/31/2022 12/31/2022 12/31/2022 13 Induced Draft Fan Similar occurrence on 8/11/23 for 11 Induced Draft fan to be removed during this time disassembled and found to require a complete sourcing delays have challenged the return day for 13 ID Fan. Similar occurrence on 12/1/23 for 24 Induced Draft Fan. Induced Draft Fan. | d from service and unit derated until a favorable mark to be taken offline to repair the tube leak. Working with the sest time for this would be during the planned outage ection in September. Heater will be repaired and remain testing performed to determine if there are any other | would allow for unit to be to determined that the best till mandated boiler inspection will have eddy current testill suspectable tubes. | milar events on 2/11/22, 3/1/2022, 3/16/22, and //27/22.All events were related to leaking tubes 36 edwater Heaters at their end of life. | s 1 F | dump valve opening to maintain level in 36-2 feedwater heater due an apparent tube leak. Heater string was isolated and a tube leak was verified in 36-2 feedwater heater. Unit derated due to feedwater heater string out of service. | 36-2 Feedwater Heater (FWH) | 2 | 12/2/2022 | 12/1/2022 | . • | · · | Forced | SHERC3 |
| | challenged the return date for the ID fan motor to the work with their vendors to expedite completing the m | 13 ID Fan was removed ard disassembled and found to sourcing delays have challe Electric continues to work | n. Similar occurences were reported during this time riod on 11/1/22 and 11/23/22 to support the repairs 13 ID Fan. Similar occurence on 12/1/23 for 24 | I F | fan to be removed from service. Investigation found an 86 lockout and 50-2 lockout. The motor was meggered and found to be shorted to ground. Motor was removed and shipped off to L&S Electric on 11/23/22 for a motor rewind. | 13 Induced Draft Fan | 29 | 12/31/2022 | 12/2/2022 | for 13 ID Fan breaker fail (86 | | Forced | SHERCO_G1 |
| Require unit offline due to imminent bearing failure on 32 SHEPC3 Require unit offline due to imminent bearing failure on 32 12/2/2022 12/10/2022 12/1 | n of repairs to 31 Condenser Exhauster to allow unit to eplacement pump for 32 Condenser Exhauster. | Expedited completion of re | nno. | | With 31 Condenser Exhauster removed for pump replacement, failure of 32 Cond Exhauster seal water pump resulted in damage to 32 Cond Exhauster bearing requiring the unit to be taken offline prior to | 32 Condenser Exhauster | 8 | 12/10/2022 | 12/2/2022 | nent bearing failure on 32 | · | Forced | SHERC3 |

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Northern States Power Company State of Minnesota-Electric Operations
Unit Forced Outage Information 2022 AAA Reporting Period: January 1 - December 31, 2022

Protected Data is Shaded

| [PROTECTED DATA | A BEGINS | |
|--------------------|--|--|
| Change in | Failure History | |
| Energy Costs (\$s) | During Reporting Period | |
| | Similar occurrences on 8/29/22 and 10/23/22 for Unit | |

| | Outage | Primary Reason for | Outage | Dates | Duration Equipment that resulted | Description of | Change in | Failure History | Steps Taken to Alleviate Reoccurrence |
|-----------|----------|--|------------|------------|----------------------------------|---|--------------------|--|--|
| Unit | Category | Unplanned Outage | Start | End | (Days) in the forced outage | Equipment Failure | Energy Costs (\$s) | During Reporting Period | |
| SHERCO_G2 | Forced | Unit 2 derated to a HOL of 565MWn due to loss of 23 & 24 Coal Mills. | 12/14/2022 | 12/31/2022 | 18 23 and 24 Coal Mills | Metal Shavings found in 23 and 24 Coal Mill oil samples. Mills removed from service. | | Similar occurrences on 8/29/22 and 10/23/22 for Unit 1, 1/1/22, 6/1/22, 7/25/22, 8/26/22, 10/25/22, 11/7/22, and 11/8/22 for Unit 2, and 12/30/22 for Unit 3. Derates due to having more than one coal mill out of service preventing the unit from making full load capability. | 23 and 24 Coal Mills moved to emergency use only due to metal shavings in oil. Unit derated until repair decision is made due to pending scheduled unit retirement date of 12/31/23. |
| SHERC3 | Forced | Derate due to multiple issues in the AQCS. 31 Recycle silo running high D/P being taken OOS. | 12/20/2022 | 12/22/2022 | 2 Spray Dryer Absorbers (SDAs) | 32 SDA was removed from service due to high vibrations on the motor, 31 SDA was removed from service due to plugging in the addtive feed lines, 35 SDA removed from service due to temperature instrument. | | Similar events on 3/1/2022 and 3/13/22. All events were related to number of available SDA's and how many are necessary for full load operation to maintain available environmental limits. | Repairs were prioritized to restore additive feed flow to 2 SDA's to allow unit to return to full power operations. |
| SHERC3 | Forced | Derate due coal leak on 304 coal mill. | 12/30/2022 | 12/31/2022 | 1 304, 305 and 306 Coal Mills | 304 Coal mill developed a coal leak while operating requiring the mill to be removed from service. 305 Coal mill was out of service due to a broken coal feeder belt and 306 coal mill was out of service due to a broken rotating throat assembly. Unit unable to make full load with 3 coal mills out of service. | 1 | Similar occurrences on 8/29/22 and 10/23/22 for Unit 1 and 1/1/22, 6/1/22, 7/25/22, 8/26/22, 10/25/22, 11/7/22, 11/8/22, and 12/14/22 for Unit 2. Derates due to having more than two coal mills out of service preventing the unit from making full load capability. | Repaired coal leak and replaced feeder belt to restore coal mill redundancy. |
| • | | | | • | <u> </u> | <u>'</u> | PROTECTED DATA F | NDS1 | • |

PROTECTED DATA ENDS]

Northern States Power Company Unit Outage Information UNPLANNED OUTAGES Docket No. E002/AA-21-295 True-Up Report Part C, Attachment 5 Page 1 of 3

Protected Data is Shaded

| Protected Data is | Siladed | | | | | Actual (\$) | | | | As Foreca | asted (\$) | | Actual (\$/MWh) | As F | orecasted (\$/MWh) |
|-----------------------------|----------------|------------------|------------|------------------------------|------------------|-----------------------------|-------------------------|------------------------|--------|-------------|-------------------------|-------------|-----------------------|-------------|-----------------------|
| | | | | (DD | OTECTED | DATA DECINE | | Eu a ucu c | | | | | | | |
| | Type of | f Outage | | [PR | Duration | DATA BEGINS Outage Replace | ment U | Energy nit Cost Due to | Outage | Replacement | Energy Unit Cost Due to | Replacement | Unit Cost Outage Cost | Replacement | Unit Cost Outage Cost |
| Unit | Plant | Category | D | ate | (Days) | MWh Cost | | st (\$) Outages (\$) | MWh | Cost (\$) | Cost (\$) Outages (\$) | Cost \$/MWh | \$/MWh \$/MWh | Cost \$/MWh | \$/MWh \$/MWh |
| Blk_Dog_G52 | Steam | Forced | | - 1/18/2022 | 16 | | 3,709 | | | | | | | | |
| Blk_Dog_G52 | Steam | Forced | 1/20/2022 | - 1/29/2022 | 10 | | 26,398 | | | 770 005 | | 22.22 | | 20.07 | |
| Black Dog Total | | | | | 26 | 5 | 0,106 | | | 770,625 | | 60.63 | | 32.37 | |
| CC Highbridge1 | CC | Forced | 10/8/2022 | - 10/10/2022 | 2 | 1 1 | 2,916 | | | | | | | | |
| High Bridge 1x1 Total | | | 10.0.0 | | 2 | | 2,916 | | | 65,722 | | 63.92 | | 28.96 | |
| | | <u>'</u> | | | | | · | | | | | | | | |
| CC Highbridge2 | CC | Forced | | - 8/5/2022 | 3 | | 7,959 | | | | | | | | |
| CC Highbridge2 | CC | Forced | 10/8/2022 | - 10/10/2022 | 2 | | 2,919 | | | | | | | | |
| High Bridge 2x1 Total | | | | | 5 | 6 | 0,878 | | | 176,358 | | 83.65 | | 32.16 | |
| | 1 | | <u> </u> | | T . | | | | | | | | | | |
| Riverside 1x1 Total | | | | | 0 | | 0 | | | 813,849 | | - | | 29.79 | |
| Tarvoroido IXI Fotal | | | | | | | • | | | 010,010 | | | | 20.70 | |
| | | | | | | | | | | | | | | | |
| Riverside 2x1 Total | | | | | 0 | | 0 | | | 646,840 | | - | | 27.36 | |
| | | | | | 1 | | | | | | | | | | |
| King_G1 King_G1 | Steam Steam | Forced Forced | | - 1/31/2022 - 1/12/2022 | 31 | | 06,057 60,464 | | | | | | | | |
| King_G1 | Steam | Forced | | - 2/28/2022 | 28 | | 7,957 | | | | | | | | |
| King G1 | Steam | Forced | 2/18/2022 | - 2/22/2022 | 4 | 1 | 20,145 | | | | | | | | |
| King_G1 | Steam | Forced | | - 2/28/2022 - 3/31/2022 | 31 | | 2,888 | | | | | | | | |
| King_G1 King_G1 | Steam Steam | Forced Forced | | - 6/30/2022 - 6/30/2022 | 13 | | 9,498 5,208 | | | | | | | | |
| King_G1 | Steam | Forced | 7/1/2022 | - 7/2/2022 | 2 | | 3,899 | | | | | | | | |
| King_G1 | Steam | Forced | | - 7/29/2022 | 12 | | 8,048 | | | | | | | | |
| King_G1 King_G1 | Steam Steam | Forced Forced | | - 7/31/2022 - 8/21/2022 | 20 | | 03,802 05,648 | | | | | | | | |
| King_G1 | Steam | Forced | 9/2/2022 | - 9/18/2022 | 16 | 1,8 | 3,151 | | | | | | | | |
| King_G1 | Steam Steam | Forced | | - 9/30/2022 - 9/20/2022 | 11 | | 37,564 94,697 | | | | | | | | |
| King_G1 King_G1 | Steam | Forced Forced | | - 10/8/2022 - 10/8/2022 | 8 | | 75,645 | | | | | | | | |
| Allen S King Total | | | | | 192 | | 4,671 | | | 2,386,625 | | 51.42 | | 41.39 | |
| SHERCO_G1 | Steam | Forced | 1/1/2022 | - 1/2/2022 | 1 2 | 5 | 61,400 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | | - 1/6/2022 | 3 | | 61,665 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 1/6/2022 | - 1/31/2022 | 25 | | 9,890 | | | | | | | | |
| SHERCO_G1 SHERCO G1 | Steam Steam | Forced Forced | | - 2/28/2022 - 3/7/2022 | 28 | - | 35,846 22,811 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | | - 3/8/2022 | 1 | | 7,191 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | | - 3/10/2022 | 1 | | 28,379 | | | | | | | | |
| SHERCO_G1 SHERCO G1 | Steam Steam | Forced Forced | | - 3/31/2022 - 6/30/2022 | 21 30 | | 56551 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | | - 7/26/2022 | 25 | | 9,167 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 7/27/2022 | - 7/31/2022 | 4 | | 8,327 | | | | | | | | |
| SHERCO_G1 SHERCO G1 | Steam Steam | Forced Forced | | - 8/2/2022 - 8/11/2022 | 7 | | 39,446 77,853 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 8/11/2022 | - 8/12/2022 | 1 | | 8,170 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 8/12/2022 | - 8/16/2022 | 4 | | 0,178 | | | | | | | | |
| SHERCO_G1 SHERCO G1 | Steam Steam | Forced Forced | | - 8/29/2022 - 8/31/2022 | 12 | | 33,701 54,310 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 9/1/2022 | - 9/7/2022 | 6 | | 58,871 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 9/7/2022 | - 9/10/2022 | 3 | | 8,160 | | | | | | | | |
| SHERCO_G1 SHERCO_G1 | Steam Steam | Forced Forced | | - 9/12/2022 - 9/25/2022 | 13 | | 37,907 02,473 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 10/14/2022 | - 10/18/2022 | 4 | | 34,550 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 10/23/2022 | - 10/25/2022 | 2 | 1 | 9,912 | | | | | | | | |
| SHERCO_G1 SHERCO G1 | Steam Steam | Forced Forced | | - 10/28/2022 - 11/20/2022 | 19 | | 1,148 5,771 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 11/20/2022 | - 11/23/2022 | 3 | | 7,894 | | | | | | | | |
| SHERCO_G1 | Steam | Forced | 11/23/2022 | - 11/28/2022 | 5 | | 75,198 | | | | | | | | |
| SHERCO_G1 Sherburne 1 Total | Steam | Forced | 12/2/2022 | - 12/31/2022 | 29 263 | · | 37,918 3, 504 | | | 9,954,204 | | 48.15 | | 29.29 | |
| Chorachio i Total | | | | <u> </u> | | 22,0 | -, | | | 5,557,207 | | +0.10 | | 25.25 | |

Northern States Power Company Unit Outage Information
UNPLANNED OUTAGES

Protected Data is Shaded

Notes:

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| | | | | | Actual (\$ |) | | | | As Forec | asted (\$) | | | Actual (\$/MWh | | As F | orecasted (\$/I | MWh) |
|------------------------|----------------|------------------|--|--|-------------------|---------------------------------------|------------------|-----------------------|---------|-------------|-------------------|-----------------------|--------------|----------------|-------------|----------------|-----------------|-------------|
| | | | IDD. | OTECTED D | ATA DECINE | | | Fueren | | | | F-10.000.0 | | | | | | |
| | Type of | Outage | [PR | Duration | ATA BEGINS Outage | Replacement | Unit | Energy Cost Due to | Outage | Replacement | Unit | Energy Cost Due to | Replacement | Unit Cost | Outage Cost | Replacement | Unit Cost | Outage Cost |
| Unit | Plant | Category | Date | (Days) | MWh | Cost (\$) | Cost (\$) | Outages (\$) | MWh | Cost (\$) | Cost (\$) | Outages (\$) | Cost \$/MWh | | \$/MWh | Cost \$/MWh | \$/MWh | \$/MWh |
| SHERCO G2 | Steam | Forced | 1/1/2022 - 1/6/2022 | (Days) | 1010011 | 343,347 | 303ι (ψ) | Outages (#) | MITTE | ουσι (ψ) | ου σ ε (ψ) | Outages (ψ) | OOSt WINVIII | Ψ/ΙΟΙΦΤΙΙ | Ψ/ΙΝΙΦΤΙΙ | ΟΟΞΕ ΨΛΙΙΙΥΙΙΙ | Ψ/1010011 | Ψ/ΙΝΙΦΤΙ |
| SHERCO G2 | Steam | Forced | 1/1/2022 - 1/2/2022 | 1 | | 459,099 | | | | | | | | | | | | |
| SHERCO G2 | Steam | Forced | 1/17/2022 - 1/18/2022 | 1 | | 86,327 | | | | | | | | | | | | |
| SHERCO G2 | Steam | Forced | 6/1/2022 - 6/6/2022 | 6 | | 164,249 | | | | | | | | | | | | |
| SHERCO G2 | Steam | Forced | 7/25/2022 - 7/28/2022 | 3 | | 448,124 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 8/26/2022 - 8/30/2022 | 4 | | 497,537 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 9/24/2022 - 9/25/2022 | 1 | | 624,229 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 9/1/2022 - 9/24/2022 | 24 | | 22,280,886 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 10/1/2022 - 10/4/2022 | 3 | | 376,902 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 10/4/2022 - 10/7/2022 | 3 | | 673,617 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 10/4/2022 - 10/22/2022 | 19 | | 2,129,453 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 10/25/2022 - 10/26/2022 | 1 | | 43,097 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 10/26/2022 - 10/30/2022 | 5 | | 316,473 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 10/30/2022 - 10/31/2022 | 1 | | 165,428 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 11/1/2022 - 11/7/2022 | 6 | | 116,914 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 11/7/2022 - 11/8/2022 | 1 | | 193,448 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 11/8/2022 - 11/30/2022 | 22 | | 1,564,913 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 12/1/2022 - 12/14/2022 | 13 | | 1,141,762 | | | | | | | | | | | | |
| SHERCO_G2 | Steam | Forced | 12/14/2022 - 12/31/2022 | 18 | | 2,215,937 | | | | | | | | | | | | |
| Sherburne 2 Total | | | | 106 | | 30,484,043 | | | | 8,795,929 | | | 54.74 | | | 34.67 | | |
| CUEDO2 | Ctoom | Toward | 4/0/2022 4/2/2022 | 1 | | 101 000 | | | | | | | | | | | | |
| SHERC3 SHERC3 | Steam | Forced | 1/2/2022 - 1/3/2022 | 17 | | 121,208 675,528 | | | | | | | | | | | | |
| SHERC3 | Steam Steam | Forced Forced | 2/11/2022 - 2/28/2022 3/1/2022 - 3/13/2022 | 13 | | 882,584 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 3/13/2022 - 3/16/2022 | 13 | | 67,623 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 3/16/2022 - 3/31/2022 | 15 | | 179,112 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 8/16/2022 - 8/22/2022 | 6 | | 4,854,842 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 8/22/2022 - 8/26/2022 | 4 | | 3,484,746 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 9/9/2022 - 9/16/2022 | 7 | | 4,608,655 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 10/15/2022 - 10/16/2022 | 1 | | 70,962 | | | | | | | | | | | | |
| SHERC3 | | Forced | 10/7/2022 - 10/14/2022 | 7 | | 3,395,551 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 11/13/2022 - 11/15/2022 | 1 | | 347,660 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 11/15/2022 - 11/18/2022 | 3 | | 732,158 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 11/27/2022 - 11/30/2022 | 3 | | 147,906 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 11/4/2022 - 11/13/2022 | 2 | | 2,483,250 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 12/1/2022 - 12/2/2022 | 2 | | 20,083 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 12/20/2022 - 12/22/2022 | 2 | | 260,008 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 12/30/2022 - 12/31/2022 | 1 | | 41,428 | | | | | | | | | | | | |
| SHERC3 | Steam | Forced | 12/2/2022 - 12/10/2022 | 8 | | 3,640,691 | | | | | | | | | | | | |
| Sherburne 3 Total | | | | 98 | | 26,013,995 | | | | 2,646,622 | | | 48.44 | | | 30.49 | | |
| | T | | | | | | | | | | | | | | | | | |
| Monticello_1 | Nuclear | Forced | 1/24/2022 - 1/27/2022 | 3 | | 1,938,888 | | | | 10.1.0=0 | | | | | | | | |
| Monticello Total | | | | 3 | | 1,938,888 | | | | 434,076 | | | 37.53 | | | 20.29 | | |
| | | | | | | | | | | | | | | | | | | |
| Prairie Island 1 Total | | | | 0 | | 0 | | | | 873,301 | | | 0 | | | 20.69 | | |
| | • | • | l l | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | | | | | |
| Prairie Island 2 Total | | | | 0 | | 0 | | | | 2,707,285 | | | 0 | | | 23.83 | | |
| | 1 | 1 | 1 1 | <u> </u> | | | | | | | | | | | | 4 | | |
| Total | | | | 696 | 1,879,641 | 95,019,002 | 46,142,137 | 48,538,577 | 997,783 | 30,271,437 | 19,573,263 | 10,698,174 | 50.55 | 24.55 | 25.82 | 30.34 | 19.62 | 2 10.72 |
| _ | | | | <u>. </u> | • | · · · · · · · · · · · · · · · · · · · | | · · · · · · | - | | * | | | | • | | | D DATA ENDS |

Northern States Power Company Unit Outage Information PLANNED OUTAGES Docket No. E002/AA-21-295 True-Up Report Part C, Attachment 5 Page 3 of 3

Protected Data is Shaded

| Protected Data 1s | Snaded | | | | Actual (\$) | | | | | As Foreca | asted (\$) | | | Actual (\$/MWh) | As F | orecasted (\$/MWh) |
|----------------------------|----------------|------------------------|--|----------|--------------|----------------------|------------|--------------|---------|-------------|------------|--------------|-------------|-----------------|-------------|-----------------------|
| | | | | | [PROTECTED D | ATA BEGINS | | Energy | | | | Energy | | | | |
| | Type of | Outage | | Duration | Outage F | Replacement | Unit | Cost Due to | Outage | Replacement | Unit | Cost Due to | Replacement | | Replacement | Unit Cost Outage Cost |
| Unit | Plant | Category | Date | (Days) | MWh | Cost (\$) | Cost (\$) | Outages (\$) | MWh | Cost (\$) | Cost (\$) | Outages (\$) | Cost \$/MWh | \$/MWh \$/MWh | Cost \$/MWh | \$/MWh \$/MWh |
| Blk_Dog_G52 Blk_Dog_G52 | Steam Steam | Scheduled Scheduled | 5/1/2022 - 5/31/2022 6/1/2022 - 6/3/2022 | 31 2 | | 1,530,092 442,050 | | | | | | | | | | |
| Blk_Dog_G52 | Steam | Scheduled | 09/22/2022 - 09/30/2022 | 9 | | 424,068 | | | | | | | | | | |
| Blk_Dog_G52 | Steam | Scheduled | 10/01/2022 - 10/31/2022 | 31 | | 3,788,857 | | | | | | | | | | |
| Blk_Dog_G52 | Steam | Scheduled | 11/01/2022 - 11/30/2022 | 30 | | 1,056,236 | | | | | | | | | | |
| Black Dog 25 Total | | | | 102 | | 7,241,303 | | | | 5,232,523 | | | 61.74 | | 27.61 | |
| CC Highbridge1 | CC | Scheduled | 10/22/2022 - 10/30/2022 | 9 | | 1,135,209 | | | | | | | | | | |
| Highbridge 1x1 Total | | | | 9 | | 1,135,209 | | | | 4,197,367 | | | 50.50 | | 27.20 | |
| CC Highbridge2 | CC | Scheduled | 10/22/2022 - 10/30/2022 | 9 | | 1,135,362 | T | | | | | | | | | |
| Highbridge 2x1 Total | | Corredated | 10/22/2022 10/00/2022 | 9 | | 1,135,362 | | | | 1,147,506 | | | 50.51 | | 27.12 | |
| | | 1 | | | | | | | | | | | | | | |
| CCRiverside1 | CC | Scheduled | 5/1/2022 - 5/4/2022 | 3 | | 528,631 | | | | | | | | | | |
| CCRiverside1 | CC | Scheduled | 12/01/2022 - 12/16/2022 | 16 | | 551,686 | | | | | | | | | | |
| Riverside 1x1 Total | | | | 19 | | 1,080,317 | | | | 1,559,665 | | | 62.45 | | 27.65 | |
| CCRiverside2 | СС | Scheduled | 5/1/2022 - 5/4/2022 | 4 | | 528,677 | | | | | | | | | | |
| CCRiverside2 | CC | Scheduled | 12/01/2022 - 12/12/2022 | 12 | | 551,688 | | | | | | | | | | |
| Riverside 2x1 Total | | Corrodatod | 12/01/2022 | 15 | | 1,080,365 | | | | 1,466,041 | | | 62.46 | | 26.35 | |
| 111010100 221 10101 | | | | | | 1,000,000 | | | | 1,100,011 | | | 32.10 | | 20.00 | |
| King_G1 | Steam | Scheduled | 7/2/2022 - 7/17/2022 | 15 | | 9,431,155 | | | | | | | | | | |
| King_G1 | Steam | Scheduled | 8/21/2022 - 8/31/2022 | 11 | | 9,254,617 | | | | | | | | | | |
| King_G1 | Steam | Scheduled | 09/01/2022 - 09/02/2022 | 2 | | 1,888,103 | | | | | | | | | | |
| King_G1 | Steam | Scheduled | 10/08/2022 - 10/31/2022 | 23 | | 10,366,348 | | | | | | | | | | |
| King_G1 | Steam | Scheduled | 11/01/2022 - 11/09/2022 | 9 | | 2,361,184 | | | | | | | | | | |
| Allen S King Total | | | | 59 | | 33,301,406 | | | | - | | | 48.60 | | - | |
| | 1 | | | | | | | | | | | | | | | |
| SHERCO_G1 | Steam | Scheduled | 7/26/2022 - 7/27/2022 | 2 | | 1,831,231 | | | | | | | | | | |
| SHERCO_G1 | Steam | Scheduled | 09/25/2022 - 09/30/2022 | 6 | | 2,779,576 | | | | | | | | | | |
| SHERCO_G1 SHERCO_G1 | Steam Steam | Scheduled Scheduled | 10/01/2022 - 10/07/2022 11/28/2022 - 11/30/2022 | 2 | | 4,044,818 197,808 | | | | | | | | | | |
| Sherburne 1 Total | Oteam | ocheduled | 11/20/2022 - 11/30/2022 | 16 | | 8,853,433 | | | | 3,202,521 | | | 42.00 | | 28.70 | |
| | | | | _ | | 1,111, 11 | | | | -, -, - | | | | | | |
| Sherburne 2 Total | | | | | | _ | | | | | | | - | | - | |
| Offerbarrie 2 Total | | | | | | | | | | | | | | | | |
| SHERC3 | | Scheduled | 5/30/2022 - 5/31/2022 | 2 | | 348,638 | | | | | | | | | | |
| SHERC3 | Steam | Scheduled | 6/1/2022 - 6/2/2022 | 2 | | 558,263 | | | | | | | | | | |
| SHERC3 Sherburne 3 Total | Steam | Scheduled | 10/22/2022 - 10/30/2022 | 8 | | 2,794,186 | | | | 600 024 | | | 20.00 | | 30.49 | |
| Sherburne 3 Total | | | | 12 | | 3,701,087 | | | | 608,934 | | | 39.29 | | 30.49 | |
| Monticello_1 | Nuclear | Scheduled | 1/4/2022 - 1/8/2022 | 4 | | 1,546,228 | | | | | | | | | | |
| Monticello Total | | | | 4 | | 1,546,228 | | | | 624,972 | | | 44.67 | | 20.29 | |
| PR_ISLD_1 | Nuclear | Scheduled | 9/20/2022 - 9/30/2022 | 11 | | 131,082 | | | | | | | | | | |
| PR ISLD 1 | Nuclear | Scheduled | 10/1/2022 - 10/14/2022 | 13 | | 885,623 | | | | | | | | | | |
| PR_ISLD_1 | Nuclear | Scheduled | 10/14/2022 - 10/31/2022 | 17 | | 8,912,266 | | | | | | | | | | |
| PR_ISLD_1 | | Scheduled | 11/1/2022 - 11/9/2022 | 8 | | 2,740,400 | | | | | | | | | | |
| Prairie Island 1 Total | | | | 50 | | 12,669,371 | | | | 5,877,907 | | | 33.23 | | 19.42 | |
| PR_ISLD_2 | Nuclear | Scheduled | 10/02/2022 - 10/04/2022 | 2 | | 38,252 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Prairie Island 2 Total | | | | 2 | | 38,252 | | | | 418,594 | | | 39.85 | | 23.83 | |
| Total | | | | 298 | 1,603,956 | 71,782,333 | 38,056,388 | 34,383,664 | 980,872 | 24,336,030 | 16,853,602 | 7,482,428 | 44.75 | 23.73 21.44 | 24.81 | 17.18 7.63 |
| | Notoo: | | | | · · · | · · · | | | | | · · | | | | | PROTECTED DATA ENDS] |

Note

(1) Outages/Derates of one day durations or longer and greater than or equal to 500 MWh are included

Docket No. E002/AA-21-295 True-Up Report Part C, Attachment 6 Page 1 of 1

 Energy Allocation Ratios
 87.3278%
 86.8458%
 86.8907% **

 Demand Allocation Ratios
 87.3461%
 86.9632%
 87.2459% **

| | | | | NSP Mii | nne | sota Compar | у Т | Γotals | | Minneso | ota | Jurisdictiona | ıl T | otals * |
|--------|------------------------------------|----------------------|-----|--------------|-----|-------------|-----|-------------|----|--------------|-----|---------------|------|-------------|
| FE | RC Account Description | Allocation Method | 201 | 16 Test Year | 20 | 021 Actuals | 20 | 022 Actuals | 20 | 16 Test Year | 2 | 021 Actuals | 2 | 022 Actuals |
| 510 | Stm Maint Super&Eng | Energy | \$ | 2,008,848 | \$ | 1,542,150 | \$ | 1,285,539 | \$ | 1,754,283 | \$ | 1,339,293 | \$ | 1,117,014 |
| 511 | Stm Maint of Structures | Demand | \$ | 2,784,311 | \$ | 4,343,962 | \$ | 3,902,411 | \$ | 2,431,987 | \$ | 3,777,648 | \$ | 3,404,693 |
| 512 | Stm Maint of Boiler Plt | Energy | \$ | 39,704,208 | \$ | 19,972,701 | \$ | 17,112,746 | \$ | 34,672,811 | \$ | 17,345,452 | \$ | 14,869,385 |
| 513 | Stm Maint of Elec Plant | Energy | \$ | 4,931,682 | \$ | 7,600,877 | \$ | 3,473,602 | \$ | 4,306,730 | \$ | 6,601,043 | \$ | 3,018,237 |
| 514 | 4 Stm Maint of Misc Stm Plt Demand | | \$ | 18,325,365 | \$ | 7,380,213 | \$ | 7,060,544 | \$ | 16,006,492 | \$ | 6,418,070 | \$ | 6,160,035 |
| 528 | 528 Nuc Maint Super & Eng Energy | | \$ | 6,183,520 | \$ | 7,690,102 | \$ | 7,614,287 | \$ | 5,399,932 | \$ | 6,678,531 | \$ | 6,616,108 |
| 529 | Nuc Maint of Structures | Demand | \$ | 9,368 | | | \$ | - | \$ | 8,183 | \$ | - | \$ | - |
| 530 | Nuc Mtc of React Plt Equip | Energy | \$ | 48,934,011 | \$ | 32,883,569 | \$ | 29,836,448 | \$ | 42,732,995 | \$ | 28,557,999 | \$ | 25,925,098 |
| 531 | Nuc Maint of Elect Plant | Energy | \$ | 13,522,861 | \$ | 12,513,587 | \$ | 11,972,440 | \$ | 11,809,217 | \$ | 10,867,525 | \$ | 10,402,937 |
| 532 | Nuc Mtc of Misc Nuc Plant | Demand | \$ | 25,463,010 | \$ | 24,961,813 | \$ | 25,024,623 | \$ | 22,240,946 | \$ | 21,707,591 | \$ | 21,832,958 |
| 541 | Hydro Mtc Super& Eng | Energy | \$ | 5,509 | \$ | 882 | \$ | 240 | \$ | 4,811 | \$ | 766 | \$ | 208 |
| 542 | Hyd Maint of Structures | Demand | \$ | 22,000 | \$ | 45,690 | \$ | 48,860 | \$ | 19,216 | \$ | 39,734 | \$ | 42,628 |
| 543 | Hydro Mtc Resv, Dams | Demand | \$ | 22,000 | \$ | 66,760 | \$ | 189,740 | \$ | 19,216 | \$ | 58,057 | \$ | 165,541 |
| 544 | Hyd Maint of Elec Plant | Energy | \$ | 88,144 | \$ | 180,673 | \$ | 39,868 | \$ | 76,974 | \$ | 156,907 | \$ | 34,641 |
| 545 | Hyd Mt Misc Hyd Plnt Mjr | Demand | \$ | 59,713 | \$ | 4,031 | \$ | 1,328 | \$ | 52,157 | \$ | 3,506 | \$ | 1,158 |
| 551 | Oth Maint Super & Eng | Demand | \$ | 310,346 | \$ | 1,828,452 | \$ | 1,719,645 | \$ | 271,075 | \$ | 1,590,080 | \$ | 1,500,320 |
| 552 | Oth Maint of Structures | Demand | \$ | 3,242,151 | \$ | 6,916,872 | \$ | 6,860,460 | \$ | 2,831,892 | \$ | 6,015,133 | \$ | 5,985,470 |
| 553 | Oth Mtc of Gen & Ele Plant | Demand | \$ | 17,225,836 | \$ | 10,741,953 | \$ | 10,748,762 | \$ | 15,046,096 | \$ | 9,341,546 | \$ | 9,377,854 |
| 554 | Oth Mtc Misc Gen Plt Mjr | Demand | \$ | 1,866,543 | \$ | 11,789,215 | \$ | 13,371,788 | \$ | 1,630,353 | \$ | 10,252,278 | \$ | 11,666,337 |
| Produc | action Maintenance Expense Totals | | \$ | 184,709,427 | \$ | 150,463,504 | \$ | 140,263,331 | \$ | 161,315,366 | \$ | 130,751,158 | \$ | 122,120,623 |

^{*}Minnesota jurisdictional totals do not reflect Interchange Agreement billings to NSP-Wisconsin.

^{**}Preliminary Minnesota Demand and Energy Allocation Ratios

Northern States Power Company Electric Utility - State of Minnesota Power Purchase Agreement Cost

| Power Purchase Agreement Cost PROTECTED DATA HAS BEEN | N SHADED | | | | | | | | | | MWh | | | | | |
|--|-------------|--------------|---|--------------------------|-----------|----------------------------|------------|------------|-----------|------------|-----------|--------------|----------------|--------------|-----------------------------|---------|
| Reference | Termination | Term (yrs) | Counterparty | MW | Fuel Type | January 2022 February 2022 | March 2022 | April 2022 | May 2022 | June 2022 | July 2022 | Διισμετ 2022 | Sentember 2022 | October 2022 | November 2022 December 2022 | 2 Total |
| Reference | Termination | ieiiii (yis) | Counterparty | IVIVV | ruerrype | January 2022 February 2022 | Watch 2022 | April 2022 | Wiay 2022 | Julie 2022 | July 2022 | August 2022 | September 2022 | October 2022 | November 2022 December 2022 | . IOtal |
| | | | | | | [PROTECTED DATA BEGINS | | | | | | | | | | |
| Barron County | 12/31/2022 | 10 | Barron County Waste-to-Energy Facility | 1.865 | RDF | [NOTE OF BAIA BEGINS | | | | | | | | | | |
| CC Calpine | 12/31/2026 | 20 | Mankato Energy Center LLC | 375 | Gas | | | | | | | | | | | |
| CC Calpine II | 5/31/2039 | 20 | Mankato Energy Center II LLC | 345 | Gas | | | | | | | | | | | |
| CC LSPower | 9/30/2027 | 30 | LSP- Cottage Grove, L.P. | 245.1 | Gas | | | | | | | | | | | |
| CT Invenergy 1 | 4/10/2025 | 17 | Invenergy Cannon Falls LLC | 178.5 | Oil/Gas | | | | | | | | | | | |
| CT Invenergy 2 | 4/10/2025 | 17 | Invenergy Cannon Falls LLC | 178.5 | Oil/Gas | | | | | | | | | | | |
| DPC Flambeau | 1/31/2037 | Life of | Dairyland Flambeau | 2 | Hydro | | | | | | | | | | | |
| | , , , , , , | Project | , | | , - | | | | | | | | | | | |
| Deuel Harvest Wind Energy LLC | 9/30/2036 | 15 | Deuel Harvest Wind Energy LLC | 300 | Wind | | | | | | | | | | | |
| Eau Galle | 7/31/2026 | 35 | Eau Galle Renewable Energy Co. Inc. | 0.300 | Hydro | | | | | | | | | | | |
| Elk Creek | 12/11/2022 | 20 | Elk Creek Solar, LLC | 80.0 | Solar | | | | | | | | | | | |
| Green Whey Dairy | 2/16/2022 | 10 | Green Whey Dairy | 3.2 | Digester | | | | | | | | | | | |
| Gundersen Lutheran Landfill | 2/16/2022 | 10 | Gundersen Lutheran | 1.137 | Landfill | | | | | | | | | | | |
| Hastings | 6/30/2033 | 45 | City of Hastings Hydro | 0.450 | Hydro | | | | | | | | | | | |
| Heartland Divide | 4/30/2047 | 25 | Heartland Divide Wind II, LLC | 200.040 | Wind | | | | | | | | | | | |
| Heller DairyFarm | 5/1/2023 | 10 | Cow Poo LLC | 2.7 | RDF | | | | | | | | | | | |
| HERC | 12/30/2024 | 28 | Hennepin Energy Resource Recovery (HERC) | 33.7 | Digester | | | | | | | | | | | |
| Keller | 12/31/2022 | MTM | Keller Paving & Landscaping, Inc. | 0.19 | Solar | | | | | | | | | | | |
| Koda | 5/31/2022 | 10 | KODA Energy, LLC | 12 | Biomass | | | | | | | | | | | |
| Lac Courte Oreilles | 12/31/2021 | 35 | Lac Courte Orielles Band of Lake Superior | 3.1 | Hydro | | | | | | | | | | | |
| | | | Chippewa Indians | | | | | | | | | | | | | |
| Manitoba Hydro | 4/30/2025 | 10 | Manitoba Hydro Electric Board | Summer: 375, Winter: | Hydro | | | | | | | | | | | |
| | | | | 325 (Summer = May thru | | | | | | | | | | | | |
| | | | | October) | | | | | | | | | | | | |
| SAF | 12/18/2031 | 20 | SAF Hydroelectric, LLC | 9.2 | Hydro | | | | | | | | | | | |
| Solar Aurora | 12/30/2036 | 20 | Aurora Distributed Solar | 100 | Solar | | | | | | | | | | | |
| Solar Best Power International PV | 5/26/2030 | 20 | St. John's Solar | 0.5 | Solar | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Solar Best Power International PV II | 10/11/2030 | 15 | School Sisters of Notre Dame Solar Park | 0.718 | Solar | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Solar Dragonfly | 9/10/2033 | 15 | Dragonfly Solar, LLC | 0.8 | Solar | | | | | | | | | | | |
| Solar Marshall | 6/8/2042 | 25.5 | Marshall Solar, LLC | 62.25 | Solar | | | | | | | | | | | |
| Solar North Star | 12/20/2041 | 25.67 | North Star Solar PV | 100 | Solar | | | | | | | | | | | |
| Solar Slayton | 1/3/2033 | 10 | Slayton Solar, LLC | 1.66 | Solar | | | | | | | | | | | |
| St Cloud | 10/31/2021 | 33 | The City of St. Cloud | Summer: 8.1, Winter: 6.6 | Hydro | | | | | | | | | | | |
| | | | | (Summer = May thru | | | | | | | | | | | | |
| | | | | October) | | | | | | | | | | | | |
| StPaul CoGen | 3/24/2023 | 20 | St. Paul Cogeneration | 25 | Biomass | | | | | | | | | | | |
| Western Technical College Angelo | 3/31/2024 | 10 | Western Technical College | 0.205 | Hydro | | | | | | | | | | | |
| Dam | | | | | | | | | | | | | | | | |
| Wind CBED Adams | 3/8/2031 | 20 | Adams Wind Generations, LLC | 19.8 | Wind | | | | | | | | | | | |
| Wind CBED Big Blue | 12/14/2032 | 20 | Big Blue Wind Farm, LLC | 36 | Wind | | | | | | | | | | | |
| Wind CBED Community Wind North | 5/27/2031 | 20 | North Wind Turbines LLC North Community | 30 | Wind | | | | | | | | | | | |
| | | | Turbines LLC | | | | | | | | | | | | | |
| Wind CBED Community Wind South | 12/25/2032 | 20 | Zephyr Wind, LLC | 30 | Wind | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Wind CBED Danielson | 3/10/2031 | 20 | Danielson Wind Farms, LLC | 19.8 | Wind | | | | | | | | | | | |
| Wind CBED Ewington | 5/27/2028 | 20 | Ewington Energy Systems, LLC | 19.95 | Wind | | | | | | | | | | | |
| Wind CBED Hilltop | 2/19/2029 | 20 | Hilltop Power | 2 | Wind | | | | | | | | | | | |
| Wind CBED Jeffers | 10/9/2028 | 20 | Jeffers Wind 20 LLC | 50 | Wind | | | | | | | | | | | |
| Wind CBED Ridgewind | 1/12/2031 | 20 | Ridgewind Power Partners LLC | 25.3 | Wind | | | | | | | | | | | |
| Wind CBED Roseville | 8/8/2030 | 20 | Grant County Wind | 20 | Wind | | | | | | | | | | | |
| Wind CBED Uilk | 1/14/2030 | 20 | Uilk Wind Farm, LLC | 4.5 | Wind | | | | | | | | | | | |
| Wind CBED Valley View | 11/29/2031 | 20 | Valley View Transmission, LLC | 10 | Wind | | | | | | | | | | | |
| Wind CBED Winona | 10/26/2031 | 20 | Winona County Wind, LLC | 1.5 | Wind | | | | | | | | | | | |
| Wind CBED Woodstock | 6/23/2030 | 20 | Woodstock Municipal Wind, LLC | 0.75 | Wind | | | | | | | | | | | |
| Wind Crown Ridge | 1/9/2045 | 25 | Crowned Ridge Wind, LLC | 200 | Wind | | | | | | | | | | | |
| Wind Clean Energy | 12/31/2039 | 20 | ALLETE Clean Energy, Inc. | 106.08 | Wind | | | | | | | | | | | |
| Wind Dakota Range III | 4/30/2033 | 20 | DAKOTA RANGE III, LLC | 153.6 | Wind | | | | | | | | | | | |
| Wind Eastridge | 4/30/2026 | 20 | Bendwind, LLC DeGreeff DP, LLC DeGreeffpa | 10 | Wind | | | | | | | | | | | |
| _ | | | LLC Groen Wind LLC Hillcrest Wind LLC | | | | | | | | | | | | | |
| | | | LarswindLLC Sierra Wind LLC TAIR Windfarm | | | | | | | | | | | | | |
| | | | LLC | | | | | | | | | | | | | |
| Wind Fenton | 11/12/2032 | 25 | Fenton Power Partners I, LLC | 205.5 | Wind | | | | | | | | | | | |
| Wind FPL | 12/2/2026 | 20 | FPL Energy Mower County, LLC | 98.9 | Wind | | | | | | | | | | | |
| Wind Garwin McNeilus | Various | 20-25 | Bangladesh Children's Support LLC, Brandon | 27.5 | Wind | | | | | | | | | | | |
| | | | Wind LLC, BT Windfarm LLC, Burmese | | | | | | | | | | | | | |
| | | | Children's Support, LLC, GarMar Foundation I, | | | | | | | | | | | | | |
| | | | LLC/ REAP I, Gar Mar Wind I, LLC, GM | | | | | | | | | | | | | |
| | | | Windfarm LLC, Henslin Creek LLC, Indian | | | | | | | | | | | | | |
| | | | Children's Support, LLC, McNeilus Windfarm | | | | | | | | | | | | | |
| | | | LLC, Salvadoran Children's Support , SG (JCKD) | | | | | | | | | | | | | |
| | | | Windfarm LLC, Southeast Asian Children's | | | | | | | | | | | | | |
| | | | , | i l | | | A | | | | | | 4 | 4 | | |
| | | | Support, LLC, Triton Wind LLC, Wasioja Wind | | | | | | | | | | | | | \ |
| | | | Support, LLC, Triton Wind LLC, Wasioja Wind LLC, Wilhelm Wind LLC | | | | | | | | | | | | | |

Northern States Power Company Electric Utility - State of Minnesota Power Purchase Agreement Cost

| on Term (yrs) Counterparty | MW | Fuel Type | January 2022 | February 2022 | March 2022 | April 2022 | May 2022 | June 2022 | July 2022 | August 2022 | September 2022 | October 2022 | November 2022 | December 2022 | |
|--|--|--|---|--|--|--|--|---|--|--|---|---|--|---|--|
| | | | | <u> </u> | | 7 (p = 0 = 1 | iviay 2022 | Julic 2022 | July 2022 | August 2022 | September 2022 | October 2022 | November 2022 | December 2022 | Total |
| | | | [PROTECTED DAT | A BEGINS | | | | | | | | | | | |
| 6 20 Odell Wind, LLC | 200 | Wind | | | | | | | | | | | | | |
| 4 30 Northern Alternative Energy Lakota Ridge LLC | 11.25 | Wind | | | | | | | | | | | | | |
| 22 15 MinnDakota Wind LLC | 150 | Wind | | | | | | | | | | | | | |
| 9 10 Moraine Wind II LLC | 49.5 | Wind | | | | | | | | | | | | | |
| 6 20 Roadrunner ,I LLC, Salty Dog-I LLC, Wallys | 8.75 | Wind | | | | | | | | | | | | | |
| Windfarm LLC, Windy Dog I LLC, Breezy Bucks-I & II LLC, Salty Dog II, LLC | 8.73 | VVIIId | | | | | | | | | | | | | |
| | 42.52 | NA/i | | | | | | | | | | | | | |
| 33 Autumn Hills LLC, Jack River LLC, Jessica Mills LLC, Julia Hills LLC, Sun River LLC, Tsar Nicholas, LLC | 13.53 | Wind | | | | | | | | | | | | | |
| 28 30 Lake Benton Power Partners LLC (LBI) | 105.75 | Wind | | | | | | | | | | | | | |
| 23 20 Chanarambie Power Partners, LLC | 85.5 | Wind | | | | | | | | | | | | | |
| 32 20 Prairie Rose Wind, LLC | 200 | Wind | | | | | | | | | | | | | |
| 1 30 Ruthton Ridge LLC, Florence Hills LLC, Hadley | 15.84 | Wind | | | | | | | | | | | | | |
| Ridge LLC, Hope Creek LLC, Soliloquy Ridge LLC, | 13.64 | vviiid | | | | | | | | | | | | | |
| Spartan Hills LLC, Twin Lake Hills LL, Winter's | | | | | | | | | | | | | | | |
| Spawn LLC | | | | | | | | | | | | | | | |
| · | 11.00 | Wind | | | | | | | | | | | | | |
| 4 30 Northern Alternative Enrgy Shakotan Hills LLC | 11.88 | | | | | | | | | | | | | | |
| 8 20 Cisco Wind Energy LLC | 8 | Wind | | | | | | | | | | | | | |
| Ashland Windfarm LLC, Elsinore Wind LLC, Gar | 9.25 | Wind | | | | | | | | | | | | | |
| Mar Foundation II / REAP II, Grant Windfarm | | | | | | | | | | | | | | | 1 |
| LLC, Zumbro Windfarm | | | | | | | | | | | | | | | - |
| 29 25 JJN Windfarm, LLC | 1.5 | Wind | | | | | | | | | | | | | |
| 5 20 Minwind III -IX, LLC | 11.55 | Wind | | | | | | | | | | | | | |
| 28 25 Westridge Windfarm LLC, Tofteland Windfarm | 9.5 | Wind | | | | | | | | | | | | | |
| LLC, TG Windfarm LLC, CG Windfarm LLC, , Fey | | | | | | | | | | | | | | | |
| Windfarm LLC, | | | | | | | | | | | | | | | \longleftarrow |
| 24 20 Stahl Wind Energy LLC, Northern Lights Wind | 8.25 | Wind | | | | | | | | | | | | | |
| LLC, Lucky Wind LLC, Greenback Energy LLC | | | | | | | | | | | | | | | |
| Cartensen Wind LLC | | | | | | | | | | | | | | | |
| 5 20 Tholen Transmission Projects | 13.2 | Wind | | | | | | | | | | | | | |
| 31 UMORE Park, LLC | 2.5 | Wind | | | | | | | | | | | | | |
| 30 Agassiz Beach LLC, Metro Wind LLC, Shanes | 16.34 | Wind | | | | | | | | | | | | | |
| Wind Farm LLC, Carlton College LLC,Kas | | | | | | | | | | | | | | | |
| Brothers Wind LLC, Ed Olsen Wind LLC, Rock | | | | | | | | | | | | | | | |
| Ridge Windfarm LLC, Southridge Windfarm LLC, | | | | | | | | | | | | | | | |
| St.Olaf College, Windvest Windfarm LLC | | | | | | | | | | | | | | | |
| 6 20 Velva Windfarm, LLC | 11.88 | Wind | | | | | | | | | | | | | |
| 18 15 Buffalo Ridge Wind Farm LLC, Moulton Heights | 12 | Wind | | | | | | | | | | | | | |
| Wind Power Project LLC, Muncie Power | | | | | | | | | | | | | | | |
| Partners LLC, North Ridge Wind Farm LLC, | | | | | | | | | | | | | | | |
| Vandy South Project, Viking Wind Farm LLC, | | | | | | | | | | | | | | | |
| Vindy Power Partners LLC, Wilson-West | | | | | | | | | | | | | | | |
| Windfarm LLC | | | | | | | | | | | | | | | |
| 25 K-Brink Wind Farm. LLC | 7.6 | Wind | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Williacallette William Elec | | 1 | | | | | | | | | | | | | |
| 25 | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC 7.6 Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, Windcurrents Windfarm, LLC | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, Windcurrents Windfarm, LLC | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Windfarm, LLC Windcurrents Windfarm, LLC | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC Windcurrents Windfarm, LLC | Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, |

Northern States Power Company Electric Utility - State of Minnesota

| Electric Othicy - State of Millinesota |
|--|
| Power Purchase Agreement Cost |

| Reference Arron County C Calpine C Calpine II C LSPower I Invenergy 1 I Invenergy 2 PC Flambeau Euel Harvest Wind Energy LLC | 12/31/2022 12/31/2026 5/31/2039 9/30/2027 | 10 20 | Counterparty Barron County Waste-to-Energy Facility | MW | Fuel Type | January 2022 [PROTECTED DATA | | March 2022 | April 2022 | May 2022 | \$ En June 2022 | ergy and Curtailr July 2022 | | September 2022 | October 2022 | November 2022 | December 2022 | Total |
|--|--|----------|--|--|-----------|-------------------------------|----------|------------|------------|----------|--------------------|--------------------------------|-------------|----------------|--------------|---------------|---------------|-------|
| arron County C Calpine C Calpine II C LSPower I Invenergy 1 I Invenergy 2 PC Flambeau Euel Harvest Wind Energy LLC | 12/31/2022 12/31/2026 5/31/2039 9/30/2027 | 10 | | MW | Fuel Type | | | March 2022 | April 2022 | May 2022 | June 2022 | July 2022 | August 2022 | September 2022 | October 2022 | November 2022 | December 2022 | Total |
| C Calpine C Calpine II C LSPower F Invenergy 1 F Invenergy 2 PC Flambeau Euel Harvest Wind Energy LLC | 12/31/2026 5/31/2039 9/30/2027 | 10 | Barron County Waste-to-Energy Facility | | | [PROTECTED DATA | | | | | | | | | | | | |
| C Calpine C Calpine II C LSPower F Invenergy 1 F Invenergy 2 PC Flambeau Euel Harvest Wind Energy LLC | 12/31/2026 5/31/2039 9/30/2027 | 10 | Barron County Waste-to-Energy Facility | | | | | | | | | | | | | | | |
| C Calpine C Calpine II C LSPower F Invenergy 1 F Invenergy 2 PC Flambeau Euel Harvest Wind Energy LLC | 12/31/2026 5/31/2039 9/30/2027 | 10 | I Barron County Waste-to-Energy Facility | 1 005 | חחר | [INOTECTED DATA | A BEGINS | | | | | | | | | | | |
| C Calpine II C LSPower F Invenergy 1 F Invenergy 2 PC Flambeau Euel Harvest Wind Energy LLC | 5/31/2039 9/30/2027 | 1 20 | | 1.865 | RDF | | | | | | | | | | | | | |
| C LSPower F Invenergy 1 F Invenergy 2 PC Flambeau euel Harvest Wind Energy LLC | 9/30/2027 | | Mankato Energy Center LLC | 375 | Gas | | | | | | | | | | | | | |
| F Invenergy 1 F Invenergy 2 PC Flambeau euel Harvest Wind Energy LLC | | 20 | Mankato Energy Center II LLC | 345 | Gas | | | | | | | | | | | | | |
| F Invenergy 2 PC Flambeau euel Harvest Wind Energy LLC | 4/40/2025 | 30 | LSP- Cottage Grove, L.P. | 245.1 | Gas | | | | | | | | | | | | | |
| PC Flambeau euel Harvest Wind Energy LLC | 4/10/2025 | 17 | Invenergy Cannon Falls LLC | 178.5 | Oil/Gas | | | | | | | | | | | | | |
| euel Harvest Wind Energy LLC | 4/10/2025 | 17 | Invenergy Cannon Falls LLC | 178.5 | Oil/Gas | | | | | | | | | | | | | |
| | 1/31/2037 | Life of | Dairyland Flambeau | 2 | Hydro | | | | | | | | | | | | | |
| | | Project | | | | | | | | | | | | | | | | |
| Calla | 9/30/2036 | 15 | Deuel Harvest Wind Energy LLC | 300 | Wind | | | | | | | | | | | | | |
| nu Galle | 7/31/2026 | 35 | Eau Galle Renewable Energy Co. Inc. | 0.300 | Hydro | | | | | | | | | | | | | |
| k Creek | 12/11/2022 | 20 | Elk Creek Solar, LLC | 80.0 | Solar | | | | | | | | | | | | | |
| reen Whey Dairy | 2/16/2022 | 10 | Green Whey Dairy | 3.2 | Digester | | | | | | | | | | | | | |
| undersen Lutheran Landfill | 2/16/2022 | 10 | Gundersen Lutheran | 1.137 | Landfill | | | | | | | | | | | | | |
| stings | 6/30/2033 | 45 | City of Hastings Hydro | 0.450 | Hydro | | | | | | | | | | | | | |
| | | _ | , | | <u> </u> | | | | | | | | | | | | | |
| artland Divide | 4/30/2047 | 25 | Heartland Divide Wind II, LLC | 200.040 | Wind | | | | | | | | | | | | | |
| eller DairyFarm | 5/1/2023 | 10 | Cow Poo LLC | 2.7 | RDF | | | | | | | | | | | | | |
| ERC | 12/30/2024 | 28 | Hennepin Energy Resource Recovery (HERC) | 33.7 | Digester | | | | | | | | | | | | | |
| eller | 12/31/2022 | MTM | Keller Paving & Landscaping, Inc. | 0.19 | Solar | | | | | | | | | | | | | |
| da | 5/31/2022 | 10 | KODA Energy, LLC | 12 | Biomass | | | | | | | | | | | | | |
| Courte Oreilles | 12/31/2021 | 35 | Lac Courte Orielles Band of Lake Superior | 3.1 | Hydro | | | | | | | | | | | | | |
| | | | Chippewa Indians | | | | | | | | | | | | | | | |
| anitoba Hydro | 4/30/2025 | 10 | Manitoba Hydro Electric Board | Summer: 375, Winter: 325 (Summer = May thru | Hydro | | | | | | | | | | | | | |
| | 40/40/===: | | APPLIATE TO THE STATE OF THE ST | October) | | | | | | | | | | | | | | |
| = | 12/18/2031 | 20 | SAF Hydroelectric, LLC | 9.2 | Hydro | | | | | | | | | | | | | |
| ar Aurora | 12/30/2036 | 20 | Aurora Distributed Solar | 100 | Solar | | | | | | | | | | | | | |
| ar Best Power International PV | 5/26/2030 | 20 | St. John's Solar | 0.5 | Solar | | | | | | | | | | | | | |
| lar Best Power International PV II | 10/11/2030 | 15 | School Sisters of Notre Dame Solar Park | 0.718 | Solar | | | | | | | | | | | | | |
| ar Dragonfly | 9/10/2033 | 15 | Dragonfly Solar, LLC | 0.8 | Solar | | | | | | | | | | | | | |
| ar Marshall | 6/8/2042 | 25.5 | Marshall Solar, LLC | 62.25 | Solar | | | | | | | | | | | | | |
| r North Star | 12/20/2041 | 25.67 | North Star Solar PV | 100 | Solar | | | | | | | | | | | | | |
| Slayton | 1/3/2033 | 10 | Slayton Solar, LLC | 1.66 | Solar | | | | | | | | | | | | | |
| Cloud | 10/31/2021 | 33 | The City of St. Cloud | Summer: 8.1, Winter: 6.6 | Hydro | | | | | | | | | | | | | |
| | | | | (Summer = May thru October) | | | | | | | | | | | | | | |
| Paul CoGen | 3/24/2023 | 20 | St. Paul Cogeneration | 25 | Biomass | | | | | | | | | | | | | |
| estern Technical College Angelo | 3/31/2024 | 10 | Western Technical College | 0.205 | Hydro | | | | | | | | | | | | | |
| m | | | | | | | | | | | | | | | | | | |
| ind CBED Adams | 3/8/2031 | 20 | Adams Wind Generations, LLC | 19.8 | Wind | | | | | | | | | | | | | |
| ind CBED Big Blue | 12/14/2032 | 20 | Big Blue Wind Farm, LLC | 36 | Wind | | | | | | | | | | | | | |
| nd CBED Community Wind North | 5/27/2031 | 20 | North Wind Turbines LLC North Community Turbines LLC | 30 | Wind | | | | | | | | | | | | | |
| nd CBED Community Wind South | 12/25/2032 | 20 | Zephyr Wind, LLC | 30 | Wind | | | | | | | | | | | | | |
| nd CBED Danielson | 3/10/2031 | 20 | Danielson Wind Farms, LLC | 19.8 | Wind | | | | | | | | | | | | | |
| d CBED Ewington | 5/27/2028 | 20 | Ewington Energy Systems, LLC | 19.95 | Wind | | | | | | | | | | | | | |
| d CBED Hilltop | 2/19/2029 | 20 | Hilltop Power | 2 | Wind | | | | | | | | | | | | | |
| d CBED Jeffers | 10/9/2028 | 20 | Jeffers Wind 20 LLC | 50 | Wind | | | | | | | | | | | | | |
| d CBED Ridgewind | 1/12/2031 | 20 | Ridgewind Power Partners LLC | 25.3 | Wind | | | | | | | | | | | | | |
| d CBED Roseville | 8/8/2030 | 20 | Grant County Wind | 20 | Wind | | | | | | | | | | | | | |
| CBED Uilk | 1/14/2030 | 20 | Uilk Wind Farm, LLC | 4.5 | Wind | | | | | | | | | | | | | |
| d CBED Valley View | 11/29/2031 | 20 | Valley View Transmission, LLC | 10 | Wind | | | | | | | | | | | | | |
| CBED Winona | 10/26/2031 | 20 | Winona County Wind, LLC | 1.5 | Wind | | | | | | | | | | | | | |
| d CBED Woodstock | 6/23/2030 | 20 | Woodstock Municipal Wind, LLC | 0.75 | Wind | | | | | | | | | | | | | |
| d Crown Ridge | 1/9/2045 | 25 | Crowned Ridge Wind, LLC | 200 | Wind | | | | | | | | | | | | | |
| - | | | <u> </u> | | | | | | | | | | | | | | | |
| d Clean Energy | 12/31/2039 | 20 | ALLETE Clean Energy, Inc. | 106.08 | Wind | | | | | | | | | | | | | |
| d Dakota Range III | 4/30/2033 | 20 | DAKOTA RANGE III, LLC | 153.6 | Wind | | | | | | | | | | | | | |
| nd Eastridge | 4/30/2026 | 20 | Bendwind, LLC DeGreeff DP, LLC DeGreeffpa LLC Groen Wind LLC Hillcrest Wind LLC LarswindLLC Sierra Wind LLC TAIR Windfarm LLC | 10 | Wind | | | | | | | | | | | | | |
| and Footon | 14/42/2022 | 35 | | 205.5 | AA#d | | | | | | | | | | | | | |
| d Fenton | 11/12/2032 | 25 | Fenton Power Partners I, LLC | 205.5 | Wind | | | | | | | | | | | | | |
| nd FPL | 12/2/2026 | 20 | FPL Energy Mower County, LLC | 98.9 | Wind | | | | | | | | | | | | | |
| ind Garwin McNeilus | Various | 20-25 | Bangladesh Children's Support LLC, Brandon Wind LLC, BT Windfarm LLC, Burmese Children's Support, LLC, GarMar Foundation I, LLC/ REAP I, Gar Mar Wind I, LLC, GM Windfarm LLC, Henslin Creek LLC, Indian Children's Support, LLC, McNeilus Windfarm LLC, Salvadoran Children's Support, SG (JCKD) Windfarm LLC, Southeast Asian Children's Support, LLC, Triton Wind LLC, Wasioja Wind | 27.5 | Wind | | | | | | | | | | | | | |

Northern States Power Company
Flectric Utility - State of Minnesota

Electric Utility - State of Minnesota

Power Purchase Agreement Cost

| PROTECTED DATA HAS BE | EN SHADED | | | | | \$ Energy and Curtailment | | | | | | | | | | | Su | ummary | |
|------------------------------|-----------------|------------|--|--------|-----------|---------------------------|---------------|------------|------------|----------|-----------|-----------|--|----------------|--------------|-----------------------------|-------|--------|--------------|
| Reference | Termination | Term (yrs) | Counterparty | MW | Fuel Type | January 2022 | February 2022 | March 2022 | April 2022 | May 2022 | June 2022 | July 2022 | | September 2022 | October 2022 | November 2022 December 2022 | Total | | Total Capaci |
| | | | | | | [PROTECTED DATA | A BEGINS | | | | | | | | | | | | \$ |
| Wind Geronimo Odell | 7/28/2036 | 20 | Odell Wind, LLC | 200 | Wind | | | | | | | | | | | | | | |
| Wind Lakota | 4/30/2034 | 30 | Northern Alternative Energy Lakota Ridge LLC | 11.25 | Wind | | | | | | | | | | | | | | |
| Wind Minn Dakota | 12/30/2022 | 15 | MinnDakota Wind LLC | 150 | Wind | | | | | | | | | | | | | | |
| Wind Moraine II | 2/17/2029 | 10 | Moraine Wind II LLC | 49.5 | Wind | | | | | | | | | | | | | | |
| Wind Norgaard | 5/10/2026 | 20 | Roadrunner ,I LLC, Salty Dog-I LLC, Wallys Windfarm LLC, Windy Dog I LLC, Breezy Bucks-I & II LLC, Salty Dog II, LLC | 8.75 | Wind | | | | | | | | | | | | | | |
| Wind North Shaokatan | 10/31/2033 | 30 | Autumn Hills LLC, Jack River LLC, Jessica Mills LLC, Julia Hills LLC, Sun River LLC, Tsar Nicholas, LLC | 13.53 | Wind | | | | | | | | | | | | | | |
| Wind Phase 2 | 12/13/2028 | 30 | Lake Benton Power Partners LLC (LBI) | 105.75 | Wind | | | | | | | | | | | | | | |
| Wind Phase 4 | 12/14/2023 | 20 | Chanarambie Power Partners, LLC | 85.5 | Wind | | | | | | | | | | | | | | |
| Wind Prairie Rose | 12/10/2032 | 20 | Prairie Rose Wind, LLC | 200 | Wind | | | | | | | | | | | | | | |
| Wind Ruthton | 1/22/2031 | 30 | Ruthton Ridge LLC, Florence Hills LLC, Hadley Ridge LLC, Hope Creek LLC, Soliloquy Ridge LLC, Spartan Hills LLC, Twin Lake Hills LL, Winter's Spawn LLC | 15.84 | Wind | | | | | | | | | | | | | | |
| Wind Shaokatan | 4/30/2034 | 30 | Northern Alternative Enrgy Shakotan Hills LLC | 11.88 | Wind | | | | | | | | | | | | | | |
| Wind Source Cisco | 5/27/2028 | 20 | Cisco Wind Energy LLC | 8 | Wind | | | | | | | | | | | | | | |
| Wind Source Garwin McNeilus | 4/30/2025 | 20 | Ashland Windfarm LLC, Elsinore Wind LLC, Gar Mar Foundation II / REAP II, Grant Windfarm LLC, Zumbro Windfarm | 9.25 | Wind | | | | | | | | | | | | | | |
| Wind Source JJN | 12/16/2029 | 25 | JJN Windfarm, LLC | 1.5 | Wind | | | | | | | | | | | | | | |
| Wind Source MinWind | 2/1/2025 | 20 | Minwind III -IX, LLC | 11.55 | Wind | | | | | | | | | | | | | | |
| Wind Source West Ridge | 12/27/2028 | 25 | Westridge Windfarm LLC, Tofteland Windfarm LLC, TG Windfarm LLC, CG Windfarm LLC, , Fey Windfarm LLC, | 9.5 | Wind | | | | | | | | | | | | | | |
| Wind Stahl | 12/31/2024 | 20 | Stahl Wind Energy LLC, Northern Lights Wind LLC, Lucky Wind LLC, Greenback Energy LLC Cartensen Wind LLC | 8.25 | Wind | | | | | | | | | | | | | | |
| Wind Tholen | 8/27/2025 | 20 | Tholen Transmission Projects | 13.2 | Wind | | | | | | | | | | | | | | |
| Wind University of Minnesota | 10/26/2031 | | UMORE Park, LLC | 2.5 | Wind | | | | | | | | | | | | | | |
| Wind Various | Various | 30 | Agassiz Beach LLC, Metro Wind LLC, Shanes Wind Farm LLC, Carlton College LLC,Kas Brothers Wind LLC, Ed Olsen Wind LLC, Rock Ridge Windfarm LLC, Southridge Windfarm LLC, St.Olaf College, Windvest Windfarm LLC | 16.34 | Wind | | | | | | | | | | | | | | |
| Wind Velva | 1/18/2026 | 20 | Velva Windfarm, LLC | 11.88 | Wind | | | | | | | | | | | | | | |
| Wind Viking | 12/17/2018 | 15 | Buffalo Ridge Wind Farm LLC, Moulton Heights Wind Power Project LLC, Muncie Power Partners LLC, North Ridge Wind Farm LLC, Vandy South Project, Viking Wind Farm LLC, Vindy Power Partners LLC, Wilson-West Windfarm LLC | 12 | Wind | | | | | | | | | | | | | | |
| Wind Westridge | Various 2028 | 25 | K-Brink Wind Farm, LLC Bisson Windfarm LLC, Boeve Windfarm LLC, Windcurrents Windfarm, LLC | 7.6 | Wind | | | | | | | | | | | | | | |
| Wind Woodstock | 4/30/2034 | 30 | Woodstock Wind Farm, LLC | 10.2 | Wind | | | | | | | | | | | | | | |

Northern States Power Company Electric Operations – State of Minnesota Community Solar Gardens Docket No. E002/AA-21-295 True-Up Report Part C, Attachment 8 Page 1 of 2

Community Solar Gardens

In its September 17, 2014 ORDER APPROVING SOLAR-GARDEN PLAN WITH MODIFICATIONS in Docket No. E002/M-13-867 (the Community Solar Gardens docket), the Commission directed the Company to "include information about its bill credits, as reported in its Annual Compliance Report in this docket, in the Company's annual FCA Annual Automatic Adjustment (AAA) Report, reflecting the same time period covered by the AAA report."

At the end of 2022, there were 461 active Community Solar Gardens in-service and 19 of these came on-line during the 2022 AAA reporting period. The location, start date, and number of subscriptions for these gardens are detailed in Part C, Attachment 9. Since bill credits do not begin until the first day of the month after the community solar garden receives permission to operate, there were a total of 461 gardens receiving bill credits during this reporting period. A total of \$184,141,566 in Community Solar Gardens bill credits were included in this year's FCA. The corresponding subscribed and unsubscribed energy bill credits were \$183,584,635 and \$556,923, respectively. The Community Solar Gardens expenses included in the FCA are shown in Part C, Attachment 10. We note that total Community Solar Gardens expenses included in FCA recovery during the AAA reporting period may vary from other CSG reporting due to timing between production and recording ledger expenses.

To comply with the fuel clause treatment approved in Docket No. E002/M-13-867, the bill credits and unsubscribed energy are recorded as fuel purchases in FERC Account 555. To allocate the costs to jurisdiction, the Company first divides the costs into market and above market categories. To determine market costs, the Company reviews the solar garden production by hour and the corresponding LMP price at that hour. These costs are allocated to jurisdiction based on sales. Costs above market are directly assigned to the Minnesota fuel clause.

The following table based on FCA data from Part C, Attachment 10 shows the breakdown of the total Minnesota Community Solar Garden market and above market expenses in the 2022 AAA period:

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| | System | MN Amount ¹ | Estimated MN Retail Allocator |
|--------------|---------------|------------------------|-------------------------------------|
| | | | Allocator |
| Market | \$84,147,422 | \$60,477,514 | 0.713550 |
| Above Market | \$99,994,144 | \$99,994,144 | 1.000000 |
| Total | \$184,141,566 | \$160,471,658 | |

Our Community Solar Garden program continues to grow, and we anticipate further growth over the coming years. The Company's most recent solar garden annual compliance report was submitted on April 1, 2022 in Docket No. E002/M-13-867, and the next report is due on April 1, 2023.

¹ \$118,200 in solar gardens developer late fees were credited to the FCA. This credit has resulted in a net solar garden cost recovery of \$110,645,956 during the AAA reporting period.

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) |
|----|----------------------|------------------------|----------------------------|------------------------------------|
| 1 | Le Sueur | 9/9/2015 | 0.036 | 4 |
| | Lincoln | 4/25/2016 | 0.204 | 16 |
| 3 | Ramsey | 5/12/2016 | 0.125 | 5 |
| | Hennepin | 8/22/2016 | 0.036 | 17 |
| | Chisago | 12/14/2016 | 5 | 41 |
| | Dakota | 12/14/2016 | 5 | 85 |
| 7 | Chisago | 12/15/2016 | 4 | 40 |
| | Carver | 12/15/2016 | 5 | 624 |
| 9 | Scott | 12/19/2016 | 3 | 223 |
| 10 | Dakota | 12/20/2016 | 5 | 29 |
| 11 | Stearns | 12/21/2016 | 5 | 55 |
| 12 | Carver | 12/21/2016 | 5 | 624 |
| 13 | Dakota | 12/22/2016 | 5 | 28 |
| 14 | Scott | 12/22/2016 | 3 | 223 |
| 15 | Stearns | 1/4/2017 | 3 | 21 |
| 16 | Stearns | 1/5/2017 | 3 | 274 |
| 17 | Goodhue | 1/12/2017 | 4.86 | 45 |
| 18 | Dakota | 1/13/2017 | 5 | 28 |
| 19 | Chisago | 1/13/2017 | 3.888 | 29 |
| 20 | Stearns | 1/20/2017 | 5 | 55 |
| 21 | Dakota | 2/13/2017 | 5 | 204 |
| 22 | Goodhue | 2/13/2017 | 4 | 307 |
| 23 | Carver | 2/28/2017 | 4.86 | 31 |
| 24 | Goodhue | 3/2/2017 | 4 | 307 |
| 25 | Washington | 3/10/2017 | 0.036 | 6 |
| 26 | Wabasha | 3/13/2017 | 3 | 183 |
| 27 | Dakota | 3/15/2017 | 5 | 204 |
| 28 | Blue Earth | 5/31/2017 | 3 | 17 |
| 29 | Redwood | 5/31/2017 | 3 | 51 |
| 30 | Winona | 5/31/2017 | 0.25 | 28 |
| 31 | Rice | 6/30/2017 | 5 | 269 |
| 32 | Dodge | 7/18/2017 | 5 | 481 |
| 33 | Washington | 7/18/2017 | 5 | 200 |
| 34 | Olmsted | 7/19/2017 | 5 | 445 |
| 35 | Kandiyohi | 8/14/2017 | 2 | 10 |
| 36 | Pipestone | 8/18/2017 | 2 | 48 |
| 37 | Chisago | 8/22/2017 | 3 | 20 |
| | Stearns | 8/24/2017 | 2 | 26 |
| | Chippewa | 8/29/2017 | 2 | 15 |
| | Dakota | 8/31/2017 | 5 | 44 |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) |
|----|----------------------|------------------------|----------------------------|------------------------------------|
| 41 | Pope | 9/13/2017 | 5 | 46 |
| 42 | Stearns | 9/13/2017 | 2.188 | 25 |
| 43 | Stearns | 9/13/2017 | 4.86 | 45 |
| 44 | Lincoln | 9/14/2017 | 0.2 | 20 |
| 45 | Sherburne | 9/22/2017 | 5 | 177 |
| 46 | Dodge | 9/27/2017 | 4 | 34 |
| 47 | Benton | 9/29/2017 | 2 | 27 |
| 48 | McLeod | 10/25/2017 | 3 | 44 |
| 49 | Chippewa | 10/25/2017 | 3 | 56 |
| 50 | Hennepin | 10/25/2017 | 5 | 26 |
| 51 | McLeod | 10/26/2017 | 5 | 145 |
| 52 | Pipestone | 10/30/2017 | 5 | 60 |
| 53 | Stearns | 10/30/2017 | 3 | 37 |
| 54 | Benton | 10/30/2017 | 5 | 37 |
| 55 | Wright | 11/3/2017 | 5 | 1118 |
| 56 | Stearns | 11/9/2017 | 5 | 45 |
| 57 | Wright | 11/13/2017 | 5 | 1081 |
| 58 | Chippewa | 11/14/2017 | 3 | 56 |
| | Stearns | 11/16/2017 | 4 | 165 |
| 60 | Nicollet | 11/20/2017 | 5 | 32 |
| 61 | Blue Earth | 11/20/2017 | 5 | 53 |
| 62 | Scott | 11/30/2017 | 4.69 | 40 |
| 63 | Scott | 11/30/2017 | 0.7 | 6 |
| 64 | Dakota | 11/30/2017 | 2.7 | 126 |
| 65 | Rice | 11/30/2017 | 5 | 203 |
| 66 | Stearns | 12/13/2017 | 5 | 45 |
| | Chisago | 12/13/2017 | 5 | 30 |
| 68 | Carver | 12/15/2017 | 5 | 60 |
| 69 | Chisago | 12/18/2017 | 5 | 25 |
| 70 | Dodge | 12/18/2017 | 5 | 79 |
| 71 | Scott | 12/20/2017 | 2.991 | 24 |
| 72 | Carver | 12/21/2017 | 4.361 | 45 |
| 73 | Renville | 12/28/2017 | 3 | 66 |
| 74 | Washington | 1/10/2018 | 5 | 80 |
| | Carver | 1/16/2018 | 3 | 19 |
| 76 | Le Sueur | 1/18/2018 | 3 | 17 |
| 77 | Dakota | 1/23/2018 | 4.95 | 45 |
| | Wabasha | 1/29/2018 | 4 | 23 |
| 79 | Pipestone | 1/31/2018 | 4.7 | 89 |
| 80 | Sherburne | 2/12/2018 | 3.25 | 349 |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) |
|-----|----------------------|------------------------|----------------------------|------------------------------------|
| 81 | Rice | 2/14/2018 | 0.998 | 157 |
| 82 | Le Sueur | 2/23/2018 | 3 | 46 |
| 83 | Carver | 2/26/2018 | 1.996 | 310 |
| 84 | Waseca | 2/26/2018 | 5 | 68 |
| 85 | Rice | 2/28/2018 | 5 | 30 |
| 86 | Le Sueur | 2/28/2018 | 5 | 52 |
| 87 | Washington | 2/28/2018 | 4 | 682 |
| 88 | Faribault | 3/2/2018 | 1.84 | 21 |
| 89 | Rice | 3/2/2018 | 3 | 21 |
| 90 | Steele | 3/5/2018 | 3.4 | 227 |
| 91 | Carver | 3/6/2018 | 3 | 18 |
| 92 | Chisago | 3/13/2018 | 5 | 25 |
| 93 | Carver | 3/14/2018 | 0.998 | 143 |
| 94 | Sherburne | 3/14/2018 | 5 | 41 |
| 95 | Pope | 3/15/2018 | 5 | 464 |
| 96 | Chippewa | 3/25/2018 | 4 | 42 |
| | Benton | 3/25/2018 | 2 | 16 |
| 98 | Scott | 3/28/2018 | 4.95 | 70 |
| 99 | Goodhue | 4/12/2018 | 0.8 | 137 |
| 100 | Washington | 4/13/2018 | 3 | 25 |
| 101 | Pope | 4/19/2018 | 3 | 292 |
| 102 | Washington | 4/20/2018 | 5 | 30 |
| 103 | Goodhue | 4/26/2018 | 0.998 | 130 |
| 104 | Chisago | 4/30/2018 | 3 | 18 |
| 105 | Stearns | 4/30/2018 | 5 | 55 |
| 106 | Sherburne | 4/30/2018 | 4 | 42 |
| 107 | Goodhue | 5/11/2018 | 1 | 26 |
| 108 | Renville | 5/16/2018 | 1 | 23 |
| 109 | Renville | 5/17/2018 | 1 | 20 |
| 110 | Goodhue | 5/22/2018 | 1 | 9 |
| 111 | Blue Earth | 5/30/2018 | 1 | 9 |
| 112 | Washington | 5/31/2018 | 3 | 25 |
| 113 | Steele | 6/5/2018 | 1 | 6 |
| | Hennepin | 6/6/2018 | 0.18 | 31 |
| | Chippewa | 6/15/2018 | 4 | 42 |
| | Lyon | 6/15/2018 | 3 | 47 |
| 117 | Rice | 6/20/2018 | 1 | 18 |
| 118 | Le Sueur | 6/29/2018 | 3 | 21 |
| 119 | Sherburne | 6/29/2018 | 5 | 35 |
| 120 | Watonwan | 7/2/2018 | 0.25 | 21 |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) |
|-----|----------------------|------------------------|----------------------------|------------------------------------|
| 121 | Sherburne | 7/13/2018 | 5 | 50 |
| | Washington | 7/16/2018 | 2.5 | 15 |
| | Steele | 7/18/2018 | 1 | 6 |
| 124 | Goodhue | 7/19/2018 | 5 | 37 |
| 125 | Washington | 7/24/2018 | 3 | 25 |
| | Dakota | 7/27/2018 | 5 | 40 |
| 127 | Goodhue | 7/30/2018 | 2 | 18 |
| 128 | Chisago | 8/1/2018 | 1 | 25 |
| | DOUGLAS | 8/2/2018 | 5 | 277 |
| 130 | Le Sueur | 8/6/2018 | 5 | 443 |
| 131 | Blue Earth | 8/7/2018 | 3.54 | 513 |
| 132 | Chisago | 8/9/2018 | 5 | 34 |
| | Wright | 8/14/2018 | 0.972 | 5 |
| | Benton | 8/14/2018 | 4.95 | 35 |
| 135 | Carver | 8/16/2018 | 4 | 1240 |
| 136 | Wright | 8/27/2018 | 5 | 440 |
| 137 | Chisago | 8/30/2018 | 1 | 10 |
| 138 | Washington | 9/4/2018 | 5 | 1346 |
| 139 | Washington | 9/7/2018 | 0.75 | 93 |
| 140 | Goodhue | 9/14/2018 | 1 | 11 |
| 141 | Dakota | 9/17/2018 | 0.75 | 9 |
| 142 | Goodhue | 9/19/2018 | 1 | 23 |
| 143 | Waseca | 9/27/2018 | 1 | 5 |
| 144 | Chisago | 9/28/2018 | 1 | 49 |
| | Chisago | 9/28/2018 | 1 | 7 |
| | Hennepin | 9/28/2018 | 0.32 | 25 |
| | Blue Earth | 10/16/2018 | 5 | 38 |
| 148 | Wright | 10/17/2018 | 4 | 29 |
| 149 | McLeod | 10/25/2018 | 1 | 5 |
| 150 | Waseca | 10/25/2018 | 1 | 5 |
| 151 | Washington | 10/29/2018 | 4.875 | 45 |
| 152 | Benton | 10/30/2018 | 1 | 10 |
| 153 | Waseca | 11/1/2018 | 1 | 10 |
| 154 | Chippewa | 11/14/2018 | 1 | 139 |
| | Kandiyohi | 11/14/2018 | 1 | 25 |
| 156 | Pope | 11/16/2018 | 1 | 17 |
| 157 | Sherburne | 11/16/2018 | 1 | 5 |
| 158 | Chisago | 11/26/2018 | 1 | 11 |
| | Chisago | 11/27/2018 | 1 | 15 |
| 160 | Wright | 11/28/2018 | 5 | 35 |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) |
|-----|----------------------|------------------------|----------------------------|------------------------------------|
| 161 | Scott | 11/28/2018 | 0.823 | 8 |
| 162 | Hennepin | 11/28/2018 | 0.527 | 77 |
| 163 | Scott | 11/28/2018 | 1 | 8 |
| 164 | Chisago | 11/28/2018 | 1 | 9 |
| 165 | Chisago | 11/28/2018 | 1 | 12 |
| 166 | Chisago | 11/29/2018 | 1 | 13 |
| 167 | Sherburne | 12/3/2018 | 5 | 55 |
| 168 | Chisago | 12/7/2018 | 1 | 7 |
| 169 | Sherburne | 12/10/2018 | 4.8 | 45 |
| 170 | Chisago | 12/11/2018 | 0.5 | 20 |
| 171 | Stearns | 12/17/2018 | 1 | 62 |
| 172 | Benton | 12/17/2018 | 1 | 9 |
| 173 | Benton | 12/17/2018 | 1 | 7 |
| 174 | Chippewa | 12/18/2018 | 1 | 13 |
| 175 | Le Sueur | 12/19/2018 | 1 | 11 |
| 176 | Murray | 12/20/2018 | 1 | 8 |
| 177 | Murray | 12/20/2018 | 1 | 11 |
| 178 | Yellow Medicine | 12/21/2018 | 5 | 136 |
| 179 | Ramsey | 1/8/2019 | 0.54 | 5 |
| 180 | Dodge | 1/9/2019 | 1 | 11 |
| 181 | Hennepin | 1/11/2019 | 5 | 649 |
| 182 | Meeker | 1/23/2019 | 0.76 | 9 |
| 183 | Stearns | 1/28/2019 | 0.324 | 9 |
| 184 | Nicollet | 1/31/2019 | 1 | 7 |
| 185 | Waseca | 2/13/2019 | 1 | 11 |
| 186 | Chisago | 2/27/2019 | 2 | 18 |
| 187 | Stearns | 3/4/2019 | 0.72 | 9 |
| 188 | Stearns | 3/4/2019 | 1 | 12 |
| 189 | Blue Earth | 3/5/2019 | 0.24 | 11 |
| 190 | McLeod | 3/12/2019 | 3 | 87 |
| 191 | Washington | 3/22/2019 | 1 | 198 |
| 192 | Stearns | 3/25/2019 | 1 | 10 |
| 193 | Wabasha | 3/26/2019 | 0.85 | 128 |
| 194 | Pope | 3/26/2019 | 1 | 17 |
| 195 | Sherburne | 3/28/2019 | 5 | 89 |
| 196 | Pope | 3/28/2019 | 1 | 16 |
| 197 | Renville | 3/29/2019 | 1 | 15 |
| 198 | Goodhue | 4/11/2019 | 5 | 526 |
| 199 | Wright | 4/15/2019 | 5 | 1031 |
| 200 | Stearns | 4/16/2019 | 1 | 12 |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) |
|-----|----------------------|------------------------|----------------------------|------------------------------------|
| 201 | Chisago | 4/22/2019 | 3 | 238 |
| | Washington | 4/22/2019 | 1 | 185 |
| | Wright | 4/29/2019 | 5 | 1031 |
| | Rice | 4/30/2019 | 1 | 7 |
| 205 | Carver | 5/1/2019 | 1 | 6 |
| 206 | Lyon | 5/3/2019 | 1 | 12 |
| 207 | Benton | 5/13/2019 | 5 | 276 |
| 208 | Dodge | 5/15/2019 | 1 | 101 |
| 209 | Dodge | 5/15/2019 | 0.4 | 67 |
| 210 | Kandiyohi | 5/21/2019 | 1 | 9 |
| 211 | Chisago | 5/21/2019 | 1 | 8 |
| 212 | Wright | 5/31/2019 | 5 | 170 |
| 213 | Stearns | 6/3/2019 | 5 | 40 |
| 214 | Dakota | 6/7/2019 | 5 | 35 |
| 215 | Dakota | 6/7/2019 | 5 | 30 |
| 216 | Sibley | 6/14/2019 | 3.25 | 66 |
| 217 | Stearns | 6/18/2019 | 3 | 42 |
| 218 | Freeborn | 6/18/2019 | 0.25 | 37 |
| 219 | Chisago | 7/3/2019 | 1 | 13 |
| 220 | Carver | 7/22/2019 | 1 | 8 |
| 221 | Scott | 7/24/2019 | 0.598 | 65 |
| 222 | Carver | 7/25/2019 | 1 | 8 |
| 223 | Sherburne | 7/26/2019 | 3 | 31 |
| 224 | Hennepin | 7/30/2019 | 0.18 | 20 |
| 225 | Sherburne | 7/31/2019 | 0.996 | 148 |
| 226 | Dakota | 8/6/2019 | 1 | 385 |
| 227 | Rice | 8/8/2019 | 1 | 47 |
| 228 | Scott | 8/13/2019 | 1 | 12 |
| 229 | Chisago | 8/16/2019 | 0.998 | 200 |
| 230 | Stearns | 8/16/2019 | 1 | 158 |
| 231 | Stearns | 8/16/2019 | 1 | 156 |
| 232 | Wabasha | 8/20/2019 | 1 | 160 |
| 233 | Wabasha | 8/20/2019 | 1 | 143 |
| 234 | Winona | 8/21/2019 | 5 | 209 |
| 235 | Winona | 8/22/2019 | 1 | 124 |
| 236 | Wabasha | 8/22/2019 | 1 | 125 |
| 237 | Winona | 8/22/2019 | 1 | 99 |
| 238 | Chippewa | 8/26/2019 | 1 | 22 |
| 239 | Carver | 8/29/2019 | 1 | 6 |
| 240 | McLeod | 8/30/2019 | 1 | 12 |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) | | | |
|-----|----------------------|------------------------|----------------------------|------------------------------------|--|--|--|
| 241 | Chisago | 9/3/2019 | 1 | 5 | | | |
| | Waseca | 9/6/2019 | 1 | 11 | | | |
| 243 | Olmsted | 9/9/2019 | 1 | 6 | | | |
| 244 | Pope | 9/11/2019 | 1 | 11 | | | |
| 245 | Pope | 9/11/2019 | 1 | 9 | | | |
| 246 | Hennepin | 9/18/2019 | 0.96 | 188 | | | |
| | Rice | 9/18/2019 | 1 | 13 | | | |
| 248 | Blue Earth | 9/24/2019 | 0.62 | 35 | | | |
| 249 | Goodhue | 9/27/2019 | 4.4 | 51 | | | |
| 250 | Blue Earth | 9/27/2019 | 0.62 | 28 | | | |
| 251 | Rice | 10/9/2019 | 1 | 16 | | | |
| 252 | Stearns | 10/23/2019 | 1 | 25 | | | |
| 253 | Stearns | 10/25/2019 | 4.75 | 77 | | | |
| 254 | Sherburne | 10/29/2019 | 1 | 13 | | | |
| 255 | Scott | 10/30/2019 | 0.4 | 5 | | | |
| 256 | Waseca | 11/18/2019 | 0.996 | 152 | | | |
| 257 | Sherburne | 11/26/2019 | 1 | 14 | | | |
| 258 | Stearns | 12/3/2019 | 1 | 13 | | | |
| 259 | Meeker | 12/11/2019 | 1 | 41 | | | |
| 260 | Dakota | 12/11/2019 | 1 | 15 | | | |
| 261 | DOUGLAS | 12/11/2019 | 1 | 25 | | | |
| 262 | Meeker | 12/13/2019 | 1 | 199 | | | |
| 263 | Rice | 12/13/2019 | 1 | 8 | | | |
| 264 | Pope | 12/16/2019 | 1 | 8 | | | |
| | Stearns | 12/16/2019 | 1 | 9 | | | |
| 266 | Nicollet | 12/18/2019 | 1 | 181 | | | |
| 267 | Blue Earth | 12/18/2019 | 1 | 167 | | | |
| 268 | McLeod | 12/18/2019 | 1 | 162 | | | |
| 269 | Chisago | 12/19/2019 | 1 | 12 | | | |
| 270 | Stearns | 12/23/2019 | 1 | 15 | | | |
| 271 | Sherburne | 12/23/2019 | 1 | 14 | | | |
| 272 | Sherburne | 12/26/2019 | 1 | 9 | | | |
| 273 | Stearns | 12/27/2019 | 1 | 202 | | | |
| 274 | DOUGLAS | 12/27/2019 | 1 | 181 | | | |
| 275 | McLeod | 12/27/2019 | 1 | 9 | | | |
| 276 | Renville | 12/30/2019 | 1 | 13 | | | |
| 277 | Sherburne | 12/30/2019 | 0.94 | 7 | | | |
| 278 | Goodhue | 12/31/2019 | 0.59 | 12 | | | |
| 279 | Winona | 1/3/2020 | 1 | 165 | | | |
| 280 | Winona | 1/3/2020 | 1 | 177 | | | |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) | | | |
|----------|----------------------|------------------------|-------------------------------|------------------------------------|--|--|--|
| 281 | Stearns | 1/13/2020 | 1 | 12 | | | |
| — | Rice | 1/14/2020 | 1 | 9 | | | |
| 283 | Dakota | 1/15/2020 | 1 | 7 | | | |
| 284 | Meeker | 1/17/2020 | 1 | 6 | | | |
| 285 | Winona | 2/12/2020 | 1 | 21 | | | |
| 286 | Goodhue | 2/13/2020 | 1 | 26 | | | |
| 287 | Pope | 2/17/2020 | 1 | 12 | | | |
| 288 | Hennepin | 2/17/2020 | 0.29 | 6 | | | |
| 289 | Rice | 2/20/2020 | 1 | 9 | | | |
| 290 | Goodhue | 2/26/2020 | 1 | 19 | | | |
| 291 | Pope | 2/26/2020 | 1 | 13 | | | |
| 292 | Waseca | 2/27/2020 | 1 | 8 | | | |
| 293 | Goodhue | 2/28/2020 | 1 | 210 | | | |
| 294 | Goodhue | 2/28/2020 | 1 | 187 | | | |
| 295 | Sherburne | 2/28/2020 | 1 | 20 | | | |
| 296 | Waseca | 3/4/2020 | 1 | 9 | | | |
| 297 | Washington | 3/9/2020 | 3 | 15 | | | |
| 298 | Goodhue | 3/9/2020 | 1 | 202 | | | |
| 299 | Rice | 3/20/2020 | 1 | 9 | | | |
| 300 | Sibley | 3/26/2020 | 1 | 13 | | | |
| | Dakota | 3/26/2020 | 1 | 9 | | | |
| 302 | Sibley | 4/3/2020 | 1 | 18 | | | |
| 303 | Olmsted | 4/3/2020 | 1 | 8 | | | |
| 304 | Dodge | 4/7/2020 | 1 | 12 | | | |
| 305 | DOUGLAS | 4/9/2020 | 1 | 16 | | | |
| 306 | Olmsted | 4/13/2020 | 1 | 11 | | | |
| 307 | Olmsted | 4/16/2020 | 1 | 9 | | | |
| 308 | Rice | 4/24/2020 | 0.96 | 108 | | | |
| 309 | Scott | 4/27/2020 | 3 | 773 | | | |
| 310 | Rice | 4/27/2020 | 1 | 15 | | | |
| 311 | Goodhue | 4/30/2020 | 1 | 27 | | | |
| 312 | Chisago | 5/19/2020 | 1 | 9 | | | |
| 313 | Benton | 5/20/2020 | 1 | 10 | | | |
| 314 | Stearns | 5/21/2020 | 1 | 5 | | | |
| 315 | Dodge | 5/21/2020 | 1 | 10 | | | |
| 316 | Carver | 5/28/2020 | 1 | 51 | | | |
| 317 | Pope | 5/30/2020 | 1 | 25 | | | |
| 318 | Dakota | 6/2/2020 | 1 | 235 | | | |
| 319 | Dakota | 6/4/2020 | 1 | 236 | | | |
| 320 | Waseca | 6/16/2020 | 1 | 8 | | | |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) | | |
|-----|----------------------|------------------------|----------------------------|------------------------------------|--|--|
| 321 | Rice | 6/17/2020 | 2 | 37 | | |
| 322 | Winona | 6/24/2020 | 1 | 16 | | |
| 323 | Winona | 6/24/2020 | 1 | 37 | | |
| 324 | Benton | 7/10/2020 | 1 | 20 | | |
| 325 | Rice | 7/13/2020 | 5 | 84 | | |
| 326 | Rice | 7/20/2020 | 4 | 105 | | |
| 327 | McLeod | 7/20/2020 | 4 | 32 | | |
| 328 | Nicollet | 7/30/2020 | 1 | 9 | | |
| 329 | Goodhue | 7/30/2020 | 1 | 16 | | |
| 330 | Stearns | 7/31/2020 | 1 | 14 | | |
| 331 | Wright | 7/31/2020 | 1 | 24 | | |
| 332 | Le Sueur | 7/31/2020 | 1 | 7 | | |
| 333 | Sherburne | 7/31/2020 | 1 | 26 | | |
| 334 | Goodhue | 8/18/2020 | 1 | 10 | | |
| 335 | Sherburne | 9/1/2020 | 1 | 10 | | |
| 336 | Redwood | 9/14/2020 | 0.86 | 30 | | |
| 337 | Chisago | 9/14/2020 | 1 | 9 | | |
| 338 | Waseca | 9/15/2020 | 1 | 13 | | |
| 339 | Chippewa | 9/16/2020 | 1 | 20 | | |
| | Redwood | 9/16/2020 | 1 | 29 | | |
| 341 | Waseca | 9/21/2020 | 1 | 11 | | |
| 342 | Steele | 9/22/2020 | 1 | 14 | | |
| 343 | Nicollet | 9/22/2020 | 1 | 10 | | |
| 344 | Washington | 9/28/2020 | 1 | 18 | | |
| 345 | Redwood | 9/28/2020 | 1 | 24 | | |
| 346 | Freeborn | 9/29/2020 | 1 | 23 | | |
| 347 | Wright | 10/1/2020 | 1 | 8 | | |
| 348 | Dodge | 10/6/2020 | 1 | 13 | | |
| 349 | Dakota | 10/6/2020 | 1 | 6 | | |
| 350 | Clay | 10/8/2020 | 1 | 38 | | |
| 351 | Clay | 10/8/2020 | 1 | 35 | | |
| 352 | Clay | 10/8/2020 | 1 | 36 | | |
| 353 | Clay | 10/8/2020 | 1 | 29 | | |
| 354 | Nicollet | 10/8/2020 | 1 | 24 | | |
| 355 | Benton | 10/14/2020 | 1 | 8 | | |
| 356 | Rice | 10/15/2020 | 0.7 | 7 | | |
| 357 | Kandiyohi | 10/19/2020 | 1 | 14 | | |
| 358 | Kandiyohi | 10/19/2020 | 1 | 12 | | |
| 359 | Washington | 10/20/2020 | 1 | 81 | | |
| 360 | Clay | 10/21/2020 | 1 | 31 | | |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) | | | |
|-----|----------------------|------------------------|----------------------------|---------------------------------|--|--|--|
| 361 | Goodhue | 10/26/2020 | 1 | 8 | | | |
| - | Waseca | 10/27/2020 | 1 | 9 | | | |
| | Renville | 10/29/2020 | 1 | 14 | | | |
| | Freeborn | 10/30/2020 | 1 | 57 | | | |
| | Chippewa | 10/30/2020 | 1 | 23 | | | |
| | Benton | 11/3/2020 | 1 | 87 | | | |
| | Dakota | 11/4/2020 | 1 | 10 | | | |
| 368 | Goodhue | 11/5/2020 | 1 | 19 | | | |
| 369 | Dodge | 11/9/2020 | 1 | 17 | | | |
| | Olmsted | 11/9/2020 | 1 | 12 | | | |
| 371 | Sherburne | 11/10/2020 | 1 | 10 | | | |
| 372 | Dodge | 11/16/2020 | 1 | 7 | | | |
| | Rice | 11/19/2020 | 1 | 10 | | | |
| 374 | Goodhue | 11/19/2020 | 1 | 8 | | | |
| 375 | Dodge | 11/23/2020 | 1 | 12 | | | |
| 376 | Winona | 11/30/2020 | 1 | 19 | | | |
| 377 | Stearns | 12/1/2020 | 1 | 11 | | | |
| 378 | Renville | 12/4/2020 | 1 | 11 | | | |
| 379 | McLeod | 12/4/2020 | 1 | 8 | | | |
| 380 | Lyon | 12/7/2020 | 1 | 29 | | | |
| 381 | Stearns | 12/9/2020 | 1 | 14 | | | |
| 382 | Chisago | 12/9/2020 | 1 | 6 | | | |
| 383 | Carver | 12/10/2020 | 1 | 87 | | | |
| 384 | Chisago | 12/11/2020 | 1 | 8 | | | |
| 385 | Pope | 12/14/2020 | 1 | 9 | | | |
| 386 | Pope | 12/14/2020 | 1 | 7 | | | |
| 387 | Stearns | 12/16/2020 | 1 | 7 | | | |
| 388 | Nicollet | 12/17/2020 | 1 | 8 | | | |
| 389 | Pope | 12/21/2020 | 1 | 17 | | | |
| 390 | Rice | 12/21/2020 | 1 | 78 | | | |
| 391 | Pope | 12/28/2020 | 1 | 25 | | | |
| 392 | McLeod | 12/30/2020 | 1 | 34 | | | |
| 393 | Dodge | 1/4/2021 | 1 | 18 | | | |
| 394 | Dodge | 1/4/2021 | 1 | 34 | | | |
| 395 | Waseca | 1/6/2021 | 1 | 16 | | | |
| 396 | Le Sueur | 1/28/2021 | 1 | 13 | | | |
| 397 | Kandiyohi | 2/2/2021 | 1 | 9 | | | |
| | Blue Earth | 3/2/2021 | 1 | 10 | | | |
| 399 | Stearns | 3/22/2021 | 0.86 | 26 | | | |
| 400 | Rice | 3/23/2021 | 0.83 | 10 | | | |

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| | Location (County) | Meter Install Date (s) | Rated AC Power Output (MW) | # of Subscriptions* (Nov. 2022) | | | | |
|-----|----------------------|------------------------|----------------------------|------------------------------------|--|--|--|--|
| 401 | Rice | 3/25/2021 | 1 | 9 | | | | |
| 402 | Redwood | 3/31/2021 | 1 | 6 | | | | |
| 403 | Redwood | 3/31/2021 | 0.86 | 12 | | | | |
| 404 | Waseca | 4/7/2021 | 1 | 13 | | | | |
| 405 | Benton | 4/21/2021 | 1 | 8 | | | | |
| 406 | Benton | 4/22/2021 | 1 | 6 | | | | |
| 407 | Sherburne | 6/2/2021 | 1 | 242 | | | | |
| 408 | Washington | 6/8/2021 | 1 | 216 | | | | |
| 409 | Steele | 6/16/2021 | 1 | 9 | | | | |
| 410 | Rice | 7/9/2021 | 1 | 202 | | | | |
| 411 | Wright | 7/13/2021 | 4 | 230 | | | | |
| 412 | Dodge | 7/13/2021 | 0.78 | 24 | | | | |
| 413 | Pope | 7/20/2021 | 1 | 92 | | | | |
| 414 | Renville | 7/20/2021 | 1 | 90 | | | | |
| 415 | Renville | 7/21/2021 | 1 | 156 | | | | |
| 416 | McLeod | 7/21/2021 | 1 | 99 | | | | |
| 417 | Chisago | 7/21/2021 | 1 | 8 | | | | |
| 418 | Chisago | 8/3/2021 | 1 | 8 | | | | |
| 419 | Chisago | 8/3/2021 | 1 | 9 | | | | |
| 420 | Pipestone | 8/5/2021 | 1 | 42 | | | | |
| 421 | Goodhue | 8/13/2021 | 1 | 6 | | | | |
| 422 | Benton | 8/19/2021 | 0.7 | 110 | | | | |
| 423 | Pope | 9/1/2021 | 1 | 100 | | | | |
| | Le Sueur | 9/2/2021 | 1 | 13 | | | | |
| 425 | Pope | 9/23/2021 | 1 | 8 | | | | |
| | Goodhue | 9/28/2021 | 1 | 193 | | | | |

2022 Minnesota Jurisdictional Solar Gardens Program Cost Recovery Through Fuel Clause Rider

| | January 2022 | February 2022 | March 2022 | April 2022 | May 2022 | June 2022 | July 2022 | August 2022 | September 2022 | October 2022 N | November 2022 D | December 2022 | Total 2022 |
|---|-----------------|----------------|----------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| System Portion of Bill Credits & Unsubscribed Energy Paym | ents | | | | | | | | | | | | |
| Without Solar Gardens Developer Late Fees | | | | | | | | | | | | | |
| Market Amount Allocated to All Jurisdictions | | | | | | | | | | | | | |
| [1] Solar Gardens Subscribed Energy | \$1,272,674 | \$5,291,219 | \$4,108,297 | \$5,799,329 | \$8,241,011 | \$13,442,173 | \$13,590,389 | \$14,654,332 | \$9,325,640 | \$5,949,814 | \$808,042 | \$1,107,569 | \$83,590,490 |
| [2] Solar Gardens Unsubscribed Energy <40 KW [3] Solar Gardens Unsubscribed Energy > 40 KW | \$0 \$24,739 | \$0 \$8.270 | \$0 \$4,429 | \$0 \$21,570 | \$0 865.721 | \$0 \$48,852 | \$0 \$50,349 | \$0 \$121,472 | \$0 \$71,190 | \$0 \$63,938 | \$0 \$28,121 | \$8 \$48,271 | \$8 \$556,923 |
| [3] Solar Gardens Unsubscribed Energy > 40 KW [4] Total Costs (System) [1]+[2]+[3] | \$24,/39 | \$5,299,489 | \$4,429 | \$21,570 \$5,820,899 | \$65,721 \$8,306,733 | \$48,852 \$13,491,024 | \$50,549 \$13,640,738 | \$121,472 | \$9,396,831 | \$6,013,752 | \$28,121 | \$48,271 | \$556,925 |
| [] | Ţ-, <u>-</u> , | 10,227,107 | # ·,··-,·- | 10,020,000 | 40,000,00 | 410,171,021 | 4-0,0.0,00 | 4-1,0, | 27,000,000 | 10,020,102 | 4000,100 | 4-11 | \$183,584,635 |
| Above Market Amount Recoverable in Minnesota Jurisdiction | | | | | | | | | | | | | |
| [5] Minnesota Direct Assigned Above Market Amount | \$6,716,868 | \$6,320,378 | \$11,514,469 | \$7,822,785 | \$11,142,832 | \$9,441,706 | \$8,522,854 | \$6,929,226 | \$10,702,668 | \$10,096,620 | \$7,059,312 | \$3,724,427 | \$99,994,144 |
| [6] Total Bill Credits & Unsubscribed Energy Payments [4]+[5] | \$8,014,281 | \$11,619,867 | \$15,627,195 | \$13,643,684 | \$19,449,565 | \$22,932,730 | \$22,163,592 | \$21,705,030 | \$20,099,498 | \$16,110,372 | \$7,895,476 | \$4,880,275 | \$184,141,566 |
| Detailed Derivation of Solar Gardens Cost Recovery from Minnes | eota Retail Cu | etomere | | | | | | | | | | | |
| Detailed Derivation of Solar Gardens Cost Recovery from Minnes | ota Retail Cu | stomers | | | | | | | | | | | |
| Above Market Bill Credits Allocated to Minnesota Fuel Clause Rec | - | | | | | | | | | | | | |
| [7] Solar Gardens Cost Recovery for MN FCA [5] | \$6,716,868 | \$6,320,378 | \$11,514,469 | \$7,822,785 | \$11,142,832 | \$9,441,706 | \$8,522,854 | \$6,929,226 | \$10,702,668 | \$10,096,620 | \$7,059,312 | \$3,724,427 | \$99,994,144 |
| MWh Sales Weighting | | | | | | | | | | | | | |
| [8] Minnesota Jurisdiction Retail MWh Subject to FCA | 2,465,060 | 2,184,762 | 2,313,969 | 2,036,015 | 2,237,079 | 2,483,414 | 2,869,897 | 2,689,089 | 2,366,895 | 2,153,910 | 2,132,527 | 2,385,732 | 28,318,349 |
| [9] NSP System MWh Sales Exclude Windsource & Renewable*Connect | 3,522,570 | 3,092,717 | 3,282,760 | 2,870,364 | 3,123,386 | 3,438,168 | 3,918,937 | 3,726,773 | 3,279,628 | 3,038,034 | 3,011,759 | 3,381,470 | 39,686,566 |
| [10] Allocation Weighting [8]/[9] | 69.9790% | 70.6422% | 70.4885% | 70.9323% | 71.6235% | 72.2307% | 73.2315% | 72.1560% | 72.1696% | 70.8982% | 70.8067% | 70.5531% | 71.3550% |
| Market Bill Credits and Payments Allocated to MN Fuel Clause Ro | coverv | | | | | | | | | | | | |
| [11] Market Amount Allocated to All Jurisdictions [4] | \$1,297,414 | \$5,299,489 | \$4,112,726 | \$5,820,899 | \$8,306,733 | \$13,491,024 | \$13,640,738 | \$14,775,804 | \$9,396,831 | \$6,013,752 | \$836,164 | \$1,155,848 | \$84,147,422 |
| [12] Allocation Weighting [10] | 69.9790% | 70.6422% | 70.4885% | 70.9323% | 71.6235% | 72.2307% | 73.2315% | 72.1560% | 72.1696% | 70.8982% | 70.8067% | 70.5531% | 71.3550% |
| [13] Market Amount Allocated to Minnesota Jurisdiction [11]*[12] | \$907,917 | \$3,743,674 | \$2,898,999 | \$4,128,897 | \$5,949,574 | \$9,744,666 | \$9,989,319 | \$10,661,624 | \$6,781,657 | \$4,263,639 | \$592,060 | \$815,487 | \$60,477,514 |
| Total Solar Gardens Costs Recovery Included in MN Fuel Cost Ch | arae | | | | | | | | | | | | |
| [14] Market and Above Market Allocated Amount [17]+[13] | \$7,624,785 | \$10,064,052 | \$14,413,469 | \$11,951,682 | \$17,092,407 | \$19,186,371 | \$18,512,173 | \$17,590,850 | \$17,484,324 | \$14,360,259 | \$7,651,372 | \$4,539,914 | \$160,471,658 |
| • | | | | | | | | | | | | | |
| [15] Solar Gardens Developer Late Fees (Credit Back to MN Customer | \$0 | \$0 | \$0 | \$0 | (\$41,000) | (\$4,000) | \$0 | \$0 | (\$19,392) | \$0 | (\$46,940) | \$0 | (\$111,332) |
| [16] Net Solar Gardens Costs Recovery Included in MN Fuel Cost Cha | \$7,624,785 | \$10,064,052 | \$14,413,469 | \$11,951,682 | \$17,133,407 | \$19,190,371 | \$18,512,173 | \$17,590,850 | \$17,503,716 | \$14,360,259 | \$7,698,312 | \$4,539,914 | \$160,582,990 |
| | | | | | | | | | | | | | |
| Market Bill Credits and Payments Allocated to Other Jurisdiction | s | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| [17] Cost Allocated to Other Jurisdictions (Market Portion Based on LMP) [| \$389,496 | \$1,555,816 | \$1,213,726 | \$1,692,002 | \$2,357,158 | \$3,746,358 | \$3,651,419 | \$4,114,180 | \$2,615,174 | \$1,750,113 | \$244,104 | \$340,361 | \$23,669,908 |
| Direct Assigned Minnesota Cost Removed from System Cost | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| [18] Minnesota Direct Assigned Above Market Amount [5] | \$6,716,868 | \$6,320,378 | \$11,514,469 | \$7,822,785 | \$11,142,832 | \$9,441,706 | \$8,522,854 | \$6,929,226 | \$10,702,668 | \$10,096,620 | \$7,059,312 | \$3,724,427 | \$99,994,144 |
| [19] Solar Gardens Developer Late Fees (Credit Back to MN Customers) [15] [20] Direct Assigned Minnesota Cost Removed from System Cost [18]+[19] | \$0 | \$0 | \$0 | \$0 | (\$41,000) | (\$4,000) | \$0 | \$0 | (\$19,392) | \$0 | (\$46,940) | 62 704 407 | (\$111,332) |
| [20] Direct Assigned Minnesota Cost Removed from System Cost [18]+[19] | \$6,716,868 | \$6,320,378 | \$11,514,469 | \$7,822,785 | \$11,101,832 | \$9,437,706 | \$8,522,854 | \$6,929,226 | \$10,683,276 | \$10,096,620 | \$7,012,372 | \$3,724,427 | \$99,882,812 |

Northern States Power Company Electric Operations – State of Minnesota Electric Procurement Policy Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 1 Page 1 of 4

FUEL PROCUREMENT POLICIES

A. Coal

Xcel Energy's coal procurement policy provides that coal and transportation services will be purchased at the lowest reasonable cost within the constraints of environmental regulations, supply reliability, operational compatibility, and consistency with Xcel Energy's inventory needs. The Company obtains its coal through a combination of long- and short-term contracts, including spot coal markets. A listing of current coal supply and transportation contracts and cost changes is shown on Part D, Attachments 3, 4 and 6.

Formal analysis of coal supply requirements for future years is performed on a regular basis. This multi-year analysis generally leads to solicitations for offers to supply unfulfilled requirements and/or bids to purchase coal. The solicitation process typically leads to purchases to fill the targeted percentages of near-term requirements based on a layered approach that varies from station to station. For example, purchases for the King Station are targeted at **[PROTECTED DATA BEGINS**]

PROTECTED DATA ENDS] When the transaction terms are attractive, Xcel Energy may fill different proportions of its future requirements. Xcel Energy continually reviews the current year's coal consumption to determine changes in coal requirements caused by such variables as weather, transportation availability, outage schedule revisions, capacity factors, and alternative electric sources. If there is an imbalance during an operational year between purchased coal supplies and station requirements, the additional fuel supply need is then corrected through such means as purchases based on spot coal market and transportation conditions at that time. Xcel Energy also monitors future years' needs on a continual basis.

The coal procurement strategy addresses the risk of supply interruption and exposure to market price fluctuations. Supply interruption can result from mine and/or transportation failures. Supply diversification is used to minimize the risk of mine failures and to enhance market competition. Multiple suppliers are pre-qualified for each plant. Also, new contracts for coal supply generally do not include a specific destination, which allows coal to be moved to the generating facility where it is most needed. Supply interruptions resulting from transportation failures have been minimized through plant-specific inventory targets. When transportation

Northern States Power Company Electric Operations – State of Minnesota Electric Procurement Policy Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 1 Page 2 of 4

performance degrades, the Company initiates close contact with our rail providers at all management levels to improve and restore service levels. Where necessary, other communication channels may be explored to exert all possible pressure to improve transportation service. **[PROTECTED DATA BEGINS**

PROTECTED DATA ENDS

Fuel transportation service contracts are executed for various multiyear terms depending on market conditions, anticipated future market conditions, and plant delivery requirements. Proposed rates are vetted internally and externally through consultants and are compared to peers in the market to ensure price competitiveness. The final agreements for transportation of fuels may include minimum tonnage requirements.

B. Nuclear

The spot market price for uranium started 2023 at \$47.75 per pound, which is an increase of \$5.65 as compared to the beginning of 2022. During the early part of first quarter of 2023, the spot market price has ranged from \$47.75 per pound to a high of \$50.50 per pound in late January. This market volatility is mainly due to geopolitical pressures, transportation challenges, and the potential for disruption of supply from Russia.

Spot market volume declined in 2022. However, there has been an increase in activity of term contracting. The 2022 term contracting volume is the highest since 2012. Continued strength in reported long-term market prices, which have risen to \$51 per pound in December of 2022 from \$40.50 per pound in December of 2021 and \$32 per pound in July of 2021, has resulted in several uranium mine operators announcing restarts of existing mines. While forecasted levels of uranium production have increased, continued growth in forecasted global demand has also increased. The world's forecasted uncovered requirements of 1.6 million pounds in 2030 rises to 3.8 billion pounds by 2040 as new nuclear plants are completed and existing nuclear plants in Japan are expected to be restarted. Throughout 2022 and continuing into

Northern States Power Company Electric Operations – State of Minnesota Electric Procurement Policy Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 1 Page 3 of 4

2023, uranium security of supply issues remain of concern as the impact of supply chain and transportation challenges due to geopolitical pressures and Russia's ongoing war in the Ukraine. Differences between supply and demand is projected to be covered by end user inventories in 2023. Spot market volume at 57.4 million pounds of U₃O₈ for 2022 is significantly below the 102.4 million pounds of U₃O₈ reported for 2021. Spot market volumes in 2023 are predicted to range from 53 to 98 million pounds of U₃O₈. Spot market prices for 2023 through 2025 are projected to average about 6 percent higher than 2022. The current market analysis forecasts global supply and inventories meeting demand until about 2024, with small supply deficits projected in 2024 and 2025 (2 million and 4 million pounds, respectively). The current market analysis forecasts a global supply deficit relative to projected demand of between 4 to 8 million pounds in the years 2026 through 2028, but will continue to be dependent on the willingness of suppliers to bring new supply into the market.

The potential western sanctions against Russia continue to provide uncertainty with regard to price impacts or supply interruptions. Numerous U.S. utilities have contracted for supply of enriched uranium from Russia beyond 2022. If sanctions impact the supply of enriched uranium from Russia to customers in the U.S. or EU, either directly (or indirectly through sanctions on the banking infrastructure), the price of uranium could continue be significantly impacted. A list of current nuclear fuel components of service contracts is shown on Part D, Attachment 2.

C. Natural Gas

In contracting for natural gas, a combination of baseload purchases, daily spot purchases, and storage are utilized to meet the portfolio requirements. The basic premise is that base load purchases are used to meet the minimum daily portfolio requirements, and the incremental burns above the minimum requirements are met using a combination of daily spot purchases and storage.

D. Woody Biomass

Xcel Energy establishes woody biomass supply contracts with a diverse group of suppliers. Sources of woody biomass include waste products from lumber mills and wood products industries, chipped bark and limbs from municipal tree trimming operations, chipped slash from logging operations, chipped pallets and demolition debris diverted from landfills, as well as shredded creosote-treated railroad ties. All

Northern States Power Company Electric Operations – State of Minnesota Electric Procurement Policy Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 1 Page 4 of 4

wood fuel is chipped to sizing specifications and delivered by truck to the plants. There are currently between 25 and 30 suppliers that provide wood fuel to two plants. Our practice has been to establish long-term relationships with a select group of local suppliers. The criteria for selection of suppliers are: 1) dependable supply, 2) consistent quality, and 3) reasonable pricing. By ensuring that these suppliers sustain viable small businesses, we, in turn, can be reasonably confident that we will receive consistent supplies of wood fuel to our plants. Contracts are typically executed with terms from 1 to 5 years. See Part D, Attachment 5 for a listing of the contracts, and Part D, Attachment 6 for a listing of cost changes. We have been able to maintain biomass pricing for our power plants below pulpwood industry prices to avoid potential competition for woody biomass with the pulp and paper industry.

E. Refuse-Derived Fuel (RDF)

Xcel Energy has established five contracts for the supply of refuse-derived fuel (RDF) for three power plants (Red Wing and Wilmarth, Minnesota, and French Island, Wisconsin). See Part D, Attachment 5 for a listing of the contracts, and Part D, Attachment 6 for a listing of cost changes. Four of the contracts provide for the delivery of processed RDF to two of the plants. Xcel Energy also has a service agreement with La Crosse County, Wisconsin, which provides for the processing of municipal solid waste (MSW) into RDF and combustion of the RDF at the French Island facility in La Crosse. Almost all of the county's MSW is processed and disposed at the Xcel Energy facility, with the exception of materials recovered for recycling, and non-combustible or non-recoverable materials and ash byproducts which are disposed in the County's landfill.

PROTECTED DATA BEGINS

PROTECTED DATA ENDS]

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Nuclear Fuel Components of Services for the Period of January through December 2022

| | Supplier & Corporate Headquarters Location | Description of Fuel or Services | Quantity of Volume | Contract Expiration Date |
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| | Supplier & Corporate Headquarters Location ROTECTED DATA BEGINS | Description of Fuel or Services | Quantity of Volume | Contract Expiration Date |
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| | Supplier & Corporate | Description of Fuel | Quantity of Volume | Contract Expiration Date |
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Northern States Power Company Electric Operations - State of Minnesota Summary of Actions Taken to Minimize Cost Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 3 Page 1 of 1

Coal Contracts

| | Supplier & Corporate Headquarters Location | Description of Fuel or Services | Quantity or Volume (million tons/year) | Contract Expiration Date |
|-----|---|------------------------------------|--|--------------------------------|
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Northern States Power Company Electric Operations - State of Minnesota Summary of Actions Taken to Minimize Cost

PUBLIC DOCUMENT NOT PUBLIC DATA HAS BEEN EXCISED

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Transportation & Related Services Contracts

| | Supplier & Corporate Headquarters Location | Description of Fuel or Service | Quantity or Volume | Contract Expiration Date | | | | |
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Northern States Power Company
Electric Operations - State of Minnesota
Summary of Actions Taken to Minimize Cost

PUBLIC DOCUMENT NOT PUBLIC DATA HAS BEEN EXCISED

Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 5 Page 1 of 3

Wood and RDF Contracts

| | Supplier & Corporate Headquarters Location | Description of Fuel or Service | Quantity or Volume | Contract |
|---------|---|-----------------------------------|--------------------|---------------------|
| IDD O'T | | or Service | | Expiration Date |
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Northern States Power Company
Electric Operations - State of Minnesota N
Summary of Actions Taken to Minimize Cost

PUBLIC DOCUMENT NOT PUBLIC DATA HAS BEEN EXCISED

Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 5 Page 2 of 3

| | Supplier & Corporate Headquarters Location | Description of Fuel or Service | Quantity or Volume | Contract Expiration Date |
|------|---|-----------------------------------|--------------------|-----------------------------|
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Northern States Power Company
Electric Operations - State of Minnesota
Summary of Actions Taken to Minimize Cost

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Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 5 Page 3 of 3

| | Supplier & Corporate Headquarters Location | Description of Fuel or Service | Quantity or Volume | Contract Expiration Date | | | | |
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Northern States Power Company Electric Operations - State of Minnesota Summary of Actions Taken to Minimize Cost Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 6 Page 1 of 3

Cost Changes – January 1, 2022 to January 1, 2023

| | Contract | Percent Change |
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Northern States Power Company Electric Operations - State of Minnesota Summary of Actions Taken to Minimize Cost Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 6 Page 2 of 3

Cost Changes – January 1, 2022 to January 1, 2023

| | Contract* | Percent Change |
|----------------|-----------|---------------------|
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Northern States Power Company Electric Operations - State of Minnesota Summary of Actions Taken to Minimize Cost Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 6 Page 3 of 3

| | Contract* | Percent Change |
|----------------|-----------|---------------------|
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^{*}The majority of wood contracts are renewed with similar terms on an annual basis. The cost change represented is the related contract price on January 1, 2022 compared to the contract price on January 1, 2023.

Northern States Power Company Electric Operations – State of Minnesota Dispatching Policies and Procedures Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 7 Page 1 of 2

DISPATCHING POLICIES AND PROCEDURES

The goal for Xcel Energy's dispatching policies and procedures is to provide our native load customers with low-priced reliable electric energy services. This goal is achieved primarily by closely monitoring our load and managing our generation system and purchased energy resources to provide the most economic loading of our own generation units in conjunction with leveraging the competitive wholesale energy and fuel markets. We discuss the Company's policies about self-commitment and self-scheduling of plants in our March 1 annual report filed in Docket No. E999/CI-19-704.

Xcel Energy devotes significant resources to managing our participation in MISO's wholesale energy market, which began operation on April 1, 2005 and increased functions on January 6, 2009. The MISO market altered the method by which we optimize our resources on behalf of our ratepayers, since all resources and load must be scheduled and cleared through MISO's Day Ahead and Real Time markets. However, this change has not altered our overarching goal of reliably providing our customers with the lowest possible energy cost. The Company continues to purchase energy in the the MISO Day Ahead and Real Time markets whenever the market price of purchased energy is below our avoided cost of production. Additionally, we continue to work with MISO to coordinate our efforts to obtain maximum value of our generation and purchased resources for customers.

The Company uses MISO Ancillary Services Market to co-optimize energy and ancillary services markets, resulting in a net benefit to ratepayers.

Another component of the Company's dispatching policy is forecasting how much wind will be on the system at a given time. The Company developed a wind generation forecasting tool in partnership with the National Center for Atmospheric Research. Xcel Energy uses this tool to forecast output from all NSP system wind farms, resulting in a reduction of wind forecast error. Similarly, Xcel Energy uses a solar forecast developed in conjunction with Global Weather Corporation (GWC) to estimate production from NSP system solar facilities. Reductions in forecast error translate directly into a long term decrease in fuel and purchased power costs because improved forecast for renewable energy reduces the need for excessive commitment of thermal resources.

In summary, Xcel Energy's dispatching policies and procedures, while focused on reliable service, are influenced by a goal of lowest cost in an uncertain environment.

Northern States Power Company Electric Operations – State of Minnesota Dispatching Policies and Procedures Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 7 Page 2 of 2

Based on the best available information and analytical tools, Xcel Energy attempts to optimally offer our generation units to both minimize energy costs and mitigate the risks of higher than expected costs. These efforts include dispatching practices aimed at controlling wind curtailment costs. Given the potential uncertainties regarding load, generation plant availability, transmission limitations, and wholesale market prices, this requires continual analysis and rapid response to changing conditions, both on an expected (day ahead) and real-time basis.

Northern States Power Company Electric Operations – State of Minnesota Actions to Minimize Costs Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 8 Page 1 of 2

FUEL SUPPLY

- a. Nuclear Fuel
- Nuclear fuel costs are economically competitive. The average total fuel cost at Prairie Island and Monticello was approximately [PROTECTED DATA BEGINS

PROTECTED DATA ENDS] mills/kWh in 2022.

- [PROTECTED DATA BEGINS
 PROTECTED DATA ENDS] have been managed to ensure security of supply and take advantage of market opportunities.
- 3. Two contracts were executed in **[PROTECTED DATA BEGINS**]

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- b. Fossil Fuel
- 1. Public documents released by the U.S. Energy Information Agency report average coal costs for utility consumption delivered in the U.S. was \$1.98/MBtu during 2021.

(https://www.eia.gov/electricity/annual/html/epa 07 01.html)

During this same period, Northern States Power Company – Minnesota's average delivered coal cost was **[PROTECTED DATA BEGINS**

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DATA ENDS]. NSP's average delivered coal cost for 2020 was **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]**.

Northern States Power Company Electric Operations – State of Minnesota Actions to Minimize Costs Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 8 Page 2 of 2

2. NSP has re-emphasized its program to review or modify, as appropriate, coal procurement strategy **[PROTECTED DATA BEGINS**

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- 3. NSP maintained contract supplies, satisfied generation coal requirements, and produced fuel expense reductions.
- 4. Xcel Energy Services, Inc. negotiates terms with existing major coal suppliers on behalf of NSP [PROTECTED DATA BEGINS

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c. MISO Energy Charges

The Company actively checks, investigates, and disputes (when appropriate) calculations and the charges billed by MISO in the Day 2 energy market. From January through December 2022, the Company submitted two disputes for operating days in 2022, although the second one was rejected as a duplicate.

NSP MISO Dispute Status

| Disputed \$ Amount | | Dispute Status | | | | |
|--------------------|----------|----------------|---------|----------------|--------|----------------|
| YEAR | Op Month | Operating Date | GRANTED | DENIED | OPEN | TOTAL |
| 2022 | 2022-12 | 12/15/22 | \$0.00 | \$1,916,558.13 | \$0.00 | \$1,916,558.13 |
| TOTAL | | | \$0.00 | \$1,916,558,13 | \$0.00 | \$1,916,558.13 |

The total dollar amount disputed in the 2022 AAA period was \$1,916,558.13, which is higher than the 2021 AAA period of \$0. The dispute was denied and was closed. All other discrepancies not requiring a formal dispute are identified during our daily checkout process and generally resolved through the normal settlement process.

Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 9 Page 1 of 1

ENERGY CONSERVATION AND OPTMIZATION PROGRAM

Xcel Energy's Energy Conservation and Optimization Program (ECO) is designed to help our customers use energy wisely. The Company has developed nearly 40 commercial and residential convservation improvement programs with the intent of providing customers the opportunity to lower their energy consumption and overall energy bills. As part of this portfolio, the Company has several electric load management programs available to customers including rate discounts for reducing electric loads on days with peak demand for electricity or rebates for participation in control events utilizing a smart thermostat.

Minn. Stat. § 216B.2401 and 216B.241 require certain Minnesota utilities, including Xcel Energy's electric utility, to invest in cost-effective conservation improvements through ECO. ECO programs are subject to regulation by the Minnesota Department of Commerce (Department). Currently, the Company offers a wide variety of programs that assist customers in implementing energy efficiency measures, ranging from rebates for high efficiency equipment to home energy squad visits. By conserving energy (i.e. using less of it) and varying loads (i.e. interrupting a constant demand to lessen the peak kilowatt impact), customers will experience an overall reduction in their utility bills. Both methods mitigate the Company's power producing and purchasing needs. Moreover, both are considered in the Company's integrated resource planning process.

The Company is required to file with the Department every three years, an Energy Conservation and Optimization Triennial Plan detailing our goals, budgets and cost-effectiveness analyses for the next planning cycle. A detailed description and analysis of the Company's electric conservation policy and programs may be found in the Company's current 2021-2023 Conservation Improvement Plan (CIP) Triennial Plan, which was filed on July 1, 2020 and approved on November 25, 2020.²

On April 1 of each year, the Company is required to file with the Department an annual Status Report, which details the cost-effectiveness and spending for the prior year's program. The Deputy Commissioner issued approval of the Company's 2021 CIP Status Report on July 7, 2022.³

¹ Minn.Stat. §216B.241 was adjusted in 2021 to enact changes to the Conservation Improvement Plan to modernize its scope to include additional load management technologies and beneficial electrification. This change is under the Energy Conservation and Optimization Act or ECO.

² Docket No. E,G002/CIP-20-473

³ Docket No. E,G002/CIP-20-473

Northern States Power Company Electric Operations – State of Minnesota Other Actions to Minimize Costs Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 10 Page 1 of 2

OTHER ACTIONS TO MINIMIZE COSTS

The Company continues to actively represent the interests of its Minnesota electric customers before national regulatory agencies to minimize the cost of wholesale electric supplies and third party transmission services to be recovered from Minnesota retail electric customers. The Company does this as an individual intervenor, through intervenor groups such as the MISO Transmission Owners (TOs), and through its membership in the Edison Electric Institute (EEI), which actively represents its members in major policy proceedings such as Federal Energy Regulatory Commission (FERC) rulemakings.

1. PARTICIPATION IN THE MISO TRANSMISSION OWNERS COMMITTEE

Northern States Power Company Minnesota (NSPM) and Northern States Power Company Wisconsin (NSPW) are transmission-owning members of MISO. NSPM and NSPW (jointly, the NSP Companies)¹ participate in the MISO Transmission Owning Committee (TOC). Not all MISO transmission-owning companies participate in the TOC.

The MISO TOC members jointly intervene in numerous FERC and other proceedings. The MISO TOC members own a substantial portion of the transmission facilities subject to MISO functional control, representing approximately two-thirds of all load in the MISO footprint. Other Minnesota entities that are MISO TOC members include Great River Energy, Minnesota Power, Otter Tail Power Company, Southern Minnesota Municipal Power Agency, ITC Midwest, LLC, Minnesota Municipal Power Agency, and Central Minnesota Municipal Power Agency. NSPM is also a participant on the Transmission Owners Tariff Working Group, which makes recommendations to the TOC on certain rate and revenue distribution changes pursuant to the MISO Transmission Owners Agreement (TOA). Xcel Energy representatives also participate in all other MISO committees, such as the Market Sub-Committee, Planning Advisory Committee, Reliability Sub-Committee and Regional Criteria and Benefits Working Group. These committees are critical to ensuring the development of transmission system additions that achieve maximum efficiency benefits.

¹ The Company and NSPW are jointly referred to as the "NSP Companies," and their integrated electric generation and transmission system is referred to as the "NSP System."

Northern States Power Company Electric Operations – State of Minnesota Other Actions to Minimize Costs Docket No. E002/AA-21-295 True-Up Report Part D, Attachment 10 Page 2 of 2

2. SIGNIFICANT MISO DEVELOPMENTS/ACTIONS

The Company has been active in a number of proceedings before the FERC. To the extent the Department or the Commission or another stakeholder desires information related to specific proceedings, the Company will provide the additional information upon request.

Docket No. E002/AA-21-295 True-up Report Part E, Attachment 1 Page 1 of 7



414 Nicollet Mall Minneapolis, MN 55401

January 18, 2023

Lindsey Simpson Deloitte & Touche LLP 50 South Sixth Street, Suite 2800 Minneapolis, MN 55402

RE: 2022 ANNUAL AUTOMATIC ADJUSTMENT (AAA) CHARGES REPORT –
ELECTRIC OPERATION
DOCKET NO. E002/AA-21-295

Dear Ms. Simpson:

The purpose of this letter is to notify Deloitte & Touche LLP, external auditor for Northern States Power Company, doing business as Xcel Energy, of certain requirements established by the Minnesota Public Utilities Commission for the upcoming Annual Automatic Adjustment (AAA) of Charges Report – Electric Operations and True-Up Report. The Company's 2022 Electric AAA and True-Up Report will be filed with the Commission and Minnesota Department of Commerce – Division of Energy Resources by March 1, 2023. This report covers the 2022 calendar year period per the Commission's December 19, 2017 and June 12, 2019 Orders in Docket No. E999/CI-03-802, which changed the process for how fuel clause factors are set and reported in Minnesota.

Scope of the Electric AAA Report

The Company's Electric AAA and True-Up Report, among other things, will provide detailed results of the Company's fuel clause for the reporting period January – December 2022. The Company implemented monthly fuel rates approved per the Commission's December 2, 2021 Order in Docket No. E002/AA-21-295. Monthly rates were later adjusted pursuant to the Company's May 19, 2022 filing in Docket No. E002/AA-21-295 and the Commission's July 5, 2022 Order in Docket No. E002/M-20-417. Appendix A to this letter shows the implemented 2022 monthly factors. The Department will prepare comprehensive analyses of the AAA and True-Up Reports filed by all regulated electric utilities, and the Commission will conduct a hearing to review and act on the Reports and the Department's recommendations.

AAA Report Independent Audit Requirements

The rules governing the automatic adjustment clauses for Minnesota electric utilities and AAA Reports are set forth in Minn. Rule 7825.2600 *et seq.* Minn. Rule 7825.2820 requires an annual independent auditor's report evaluating the utility's accounting for automatic adjustments for the reporting year. Pursuant to the Commission's December 19, 2017 and June 12, 2019 Orders in Docket No. E999/CI-03-802, Xcel Energy's Fuel Clause Adjustment (FCA) as of 2022 is based on an annual forecast of system energy costs and sales as approved by the Commission that reflects the following:

- 1. The fuel costs are unbundled from the energy charges (or base rates). The Base Cost of Energy embedded in the energy charges is listed separately with the monthly adjustments as "Fuel Cost Charge" line item on bill; and
- 2. Instead of a single factor, the monthly fuel cost factors are differentiated by six customer class categories.

Per the Commission's November 5, 2019 Order in Docket No. E999/CI-03-802, the Company no longer recovers energy-related costs via its base cost of energy.

The Fuel Clause Rider as defined in the Company's Minnesota Electric Rate Book - MPUC No. 2, Sheet Nos. 5-91, 5-91.1, 5-91.2 and 5-91.3 also include variances authorized by the MPUC. We note the dockets in which these variances were approved in Appendix B.

For the twelve months ending December 31, 2022, computations of the monthly fuel clause adjustment factors also reflected the MISO Day 2 and ASM charges recovery, wind contracts curtailment payments, renewable energy purchase agreements, Windsource exemption and end-of-life nuclear fuel accrual. Please see Appendix B for a list of dockets in which these additional items were approved.

The 2022 Electric AAA and True-Up Report also covers the refunds in the FCA true-up pursuant to the ongoing Asset Based Margin Sharing Program as defined in the Company's Minnesota Electric Rate Book—MPUC No. 2, Sheet No. 5-91.2.¹

AAA Report Additional Independent Audit Requirements

In compliance with the Commission's March 20, 2002 Order in Docket No. E002/M-01-1953, the Company is required to submit a written request that its external auditors specifically examine the wholesale electric transactions that use gas financial instruments to hedge the price risk associated with those transactions. In preparing

¹ Pursuant to Commission Order in the Company's 2010 rate case (Docket No. E002/GR-10-971) dated May 14, 2012, the Non-Asset Based Margins can no longer be credited through the FCA.

Docket No. E002/AA-21-295 True-up Report Part E, Attachment 1 Page 3 of 7

the auditor report to be submitted with the Company's 2022 Electric AAA and True-Up Report to be filed by March 1, 2023, the Company's external auditors should include a statement certifying the following:

- The accounting separation of retail and wholesale financial instruments is implemented appropriately; and
- An audit has been performed to ensure no wholesale electric financial instrument gains or losses are recorded in Account 555 or in Account 804.

The Commission's July 21, 2017 Order in Docket No. E999/AA-15-611 requires that the independent auditor report includes the following:

- comparison of the documentation in support of payments and invoices received from energy suppliers;
- comparison of the base costs of power approved by the Commission to the bases used by the utility;
- recalculation of the billing adjustment charge (credit) per kWh charged to customers for purchased power for the entire applicable period by customer class;
- comparison of the accounting records for the revenues billed to customers for energy delivered for the relevant period to the total sales of electric energy;
- on a test basis, an examination of individual billings in each customer class by recalculating the automatic adjustment of charges and credits and tracing to individual customers' subsidiary records to ensure that the calculated credit or charge was correctly recorded;
- an examination of any corrections to FCA charges or other billing errors;
- a reconciliation of total revenue and cost of power in the utility's general ledger; and
- a recalculation of any true-up, and tracing of the related revenue and expense amounts to the utility's accounting records.

Audit Completion Date

We are requesting the completion of this audit by no later than February 24, 2023. We will gladly work with you to establish a revised schedule if necessary. The Deloitte & Touche independent audit report should be provided to Lisa Peterson, Director, Regulatory Pricing & Analysis, 414 Nicollet Mall – 401 7th Floor, Minneapolis, Minnesota 55401.

Thank you for your attention to this matter. Please do not hesitate to call me at

Docket No. E002/AA-21-295 True-up Report Part E, Attachment 1 Page 4 of 7

612-330-5570 with any questions. We will schedule a follow-up meeting to ensure that all the audit requirements are understood.

Sincerely,

/s/

REBECCA D. EILERS
REGULATORY MANAGER

cc: Lisa Peterson John Chow

Northern States Power Company Minnesota Retail Electric Fuel Cost Charges (\$/KWh)

| FUEL COST CHARGE (\$/kWh) | | | | | | | |
|---------------------------|----------|----------|-----------------------|----------|----------|--|--|
| Residential | C&I Non- | | C&I Demand | | Outdoor | | |
| | Demand | Non-TOD | TOD | | | | |
| | | NOII-10D | On-Peak | Off-Peak | Lighting | | |

| 2022 Forecast | | | | | | | | | | |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|--|--|--|--|
| FAF Ratio * | 1.0177 | 1.0305 | 0.9984 | 1.2486 | 0.8166 | 0.7976 | | | | |
| January | \$0.02597 | \$0.02630 | \$0.02548 | \$0.03184 | \$0.02086 | \$0.02038 | | | | |
| February | \$0.03066 | \$0.03104 | \$0.03008 | \$0.03761 | \$0.02460 | \$0.02403 | | | | |
| March | \$0.03268 | \$0.03309 | \$0.03206 | \$0.04009 | \$0.02623 | \$0.02562 | | | | |
| April | \$0.03256 | \$0.03297 | \$0.03194 | \$0.03992 | \$0.02614 | \$0.02554 | | | | |
| May | \$0.03453 | \$0.03496 | \$0.03387 | \$0.04234 | \$0.02772 | \$0.02708 | | | | |
| June | \$0.03979 | \$0.04029 | \$0.03903 | \$0.04880 | \$0.03194 | \$0.03119 | | | | |
| July | \$0.03392 | \$0.03435 | \$0.03328 | \$0.04161 | \$0.02722 | \$0.02658 | | | | |
| Mid Year Adj | \$0.00384 | \$0.00388 | \$0.00376 | \$0.00471 | \$0.00308 | \$0.00301 | | | | |
| July Total | \$0.03776 | \$0.03823 | \$0.03704 | \$0.04632 | \$0.03030 | \$0.02959 | | | | |
| August | \$0.03386 | \$0.03428 | \$0.03321 | \$0.04154 | \$0.02716 | \$0.02653 | | | | |
| Mid Year Adj | \$0.00392 | \$0.00397 | \$0.00384 | \$0.00481 | \$0.00314 | \$0.00307 | | | | |
| August Total | \$0.03778 | \$0.03825 | \$0.03705 | \$0.04635 | \$0.03030 | \$0.02960 | | | | |
| September | \$0.03328 | \$0.03369 | \$0.03265 | \$0.04081 | \$0.02671 | \$0.02609 | | | | |
| Mid Year Adj | \$0.00466 | \$0.00472 | \$0.00457 | \$0.00572 | \$0.00374 | \$0.00365 | | | | |
| 2021 True Up | \$0.00325 | \$0.00329 | \$0.00318 | \$0.00398 | \$0.00260 | \$0.00254 | | | | |
| September Total | <u>\$0.04119</u> | <u>\$0.04170</u> | <u>\$0.04040</u> | <u>\$0.05051</u> | \$0.03305 | <u>\$0.03228</u> | | | | |
| October | \$0.03116 | \$0.03155 | \$0.03057 | \$0.03822 | \$0.02501 | \$0.02443 | | | | |
| Mid Year Adj | \$0.00477 | \$0.00483 | \$0.00468 | \$0.00586 | \$0.00383 | \$0.00374 | | | | |
| 2021 True Up | \$0.00333 | \$0.00337 | \$0.00326 | \$0.00408 | \$0.00267 | \$0.00261 | | | | |
| October Total | <u>\$0.03926</u> | <u>\$0.03975</u> | <u>\$0.03851</u> | <u>\$0.04816</u> | <u>\$0.03151</u> | <u>\$0.03078</u> | | | | |
| November | \$0.02891 | \$0.02927 | \$0.02836 | \$0.03546 | \$0.02320 | \$0.02266 | | | | |
| Mid Year Adj | \$0.00493 | \$0.00499 | \$0.00483 | \$0.00604 | \$0.00395 | \$0.00386 | | | | |
| 2021 True Up | \$0.00340 | \$0.00344 | \$0.00333 | \$0.00417 | \$0.00273 | \$0.00266 | | | | |
| November Total | \$0.03724 | \$0.03770 | <u>\$0.03652</u> | <u>\$0.04567</u> | <u>\$0.02988</u> | \$0.02918 | | | | |
| December | \$0.02662 | \$0.02696 | \$0.02612 | \$0.03265 | \$0.02138 | \$0.02088 | | | | |
| Mid Year Adj | \$0.00452 | \$0.00458 | \$0.00443 | \$0.00554 | \$0.00363 | \$0.00354 | | | | |
| 2021 True Up | \$0.00309 | \$0.00313 | \$0.00304 | \$0.00380 | \$0.00248 | \$0.00242 | | | | |
| December Total | <u>\$0.03423</u> | <u>\$0.03467</u> | <u>\$0.03359</u> | <u>\$0.04199</u> | <u>\$0.02749</u> | <u>\$0.02684</u> | | | | |
| Average | \$0.03530 | \$0.03575 | \$0.03463 | \$0.04330 | \$0.02834 | \$0.02768 | | | | |

FAF Ratio effective since October 1, 2017.

| | | | 2021 | | | |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
| January | \$0.02315 | \$0.02344 | \$0.02271 | \$0.02839 | \$0.01859 | \$0.01816 |
| February | \$0.02613 | \$0.02646 | \$0.02564 | \$0.03206 | \$0.02097 | \$0.02048 |
| March | \$0.02716 | \$0.02750 | \$0.02665 | \$0.03332 | \$0.02180 | \$0.02129 |
| April | \$0.02854 | \$0.02890 | \$0.02800 | \$0.03500 | \$0.02292 | \$0.02239 |
| May | \$0.03236 | \$0.03277 | \$0.03175 | \$0.03970 | \$0.02597 | \$0.02537 |
| June | \$0.03617 | \$0.03663 | \$0.03548 | \$0.04438 | \$0.02902 | \$0.02834 |
| July | \$0.03086 | \$0.03125 | \$0.03027 | \$0.03786 | \$0.02476 | \$0.02418 |
| August | \$0.03012 | \$0.03049 | \$0.02954 | \$0.03696 | \$0.02416 | \$0.02359 |
| September ** | \$0.03067 | \$0.03106 | \$0.03010 | \$0.03763 | \$0.02462 | \$0.02405 |
| October # | \$0.03130 | \$0.03169 | \$0.03070 | \$0.03838 | \$0.02511 | \$0.02453 |
| November # | \$0.02869 | \$0.02905 | \$0.02814 | \$0.03519 | \$0.02302 | \$0.02247 |
| December # | \$0.02672 | \$0.02706 | \$0.02621 | \$0.03279 | \$0.02145 | \$0.02095 |
| Average | \$0.02932 | \$0.02969 | \$0.02877 | \$0.03597 | \$0.02353 | \$0.02298 |
| | | | | | | |

^{**} Included 2020 True Up # Included 2021 Mid-Year True Up.

Appendix B

New Orders issued or new activities are underlined

The Fuel Clause Rider as defined in the Company's Minnesota Electric Rate Book - MPUC No. 2, Sheet Nos. 5-91, 5-91.1, 5-91.2 and 5-91.3 also include variances authorized by the MPUC. These variances were approved in the following dockets.

- Wind, Biomass and Others E002/M-95-244, E002/M-96-934,
 E,G002/M-97-985, E002/M-17-530, E002/M-17-531, E002/M-17-532,
 E002/M-17-551, and E002/M-17-694
- Fuel Clause Reform E999/CI-03-802, Orders dated December 19, 2017, June 12, 2019, and November 5, 2019
- 2021 Fuel Forecast and Factors E002/AA-20-417, Order dated July 5, 2022
- 2022 Fuel Forecast and Factors— E002/AA-21-295, Order dated December 2, 2021 and Rate Adjustment filing dated May 19, 2022

For the 12 months ending December 31, 2022, computations of the monthly fuel clause adjustment factors also reflected the MISO Day 2 and ASM charges recovery, wind contracts curtailment payments, renewable energy purchase agreements, Windsource exemption and end-of-life nuclear fuel accrual. These additional components of the FCA were approved by the MPUC in the following dockets:

- MISO ASM E002/M-08-528
- MISO Day 2 E002/M-04-1970
- Wind Contracts Curtailment Payments E002/M-00-622, E002/M-02-51, E002/M-04-404, E002/M-04-864, E002/CN-01-1958, E,G999/AA-04-1279, E002/M-05-1850, E002/M-05-1934, and E002/M-06-85
- Renewable Energy Purchase Agreements:
 - o KODA Energy, LLC, E002/M-08-1098, Order dated January 29, 2009
 - Woodstock, LLC, Amendment approved in E002/M-17-26, Order dated October 8, 2018.
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- o WM Renewable Energy, LLC, E002/M-10-161, Order dated April 30, 2010
- o Big Blue, LLC, Amendment approved in E002/M-13-1002, Order dated February 27, 2014.
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- o Valley View, E002/M-08-1235, Order dated March 9, 2009
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- Moraine II, Amendment approved in E002/M-19-58, Order dated March 25, 2019
- o Ewington Energy Systems LLC, E002/M-06-1472, Notice of Approval dated November 30, 2006
- Uilk Wind Farm, LLC, E002/M-08-1502, Notice of Approval dated February 6, 2009
- o Prairie Rose Wind, LLC, E002/M-11-713, Order dated December 28, 2011
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- o Dragonfly Solar, E002/M-17-561, Order dated October 12, 2017
- o University of Minnesota South East Plant, E002/M-20-39, Order dated April 10, 2020
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- O Dakota Range III E002/M-18-765, Order dated July 19, 2019
- o St. Paul Cogeneration E002/M-21-590, Order dated January 24, 2022
- WindSource Exemption E002/M-01-1479, E002/M-09-1177, Order dated June 21, 2010
- End-Of-Life Nuclear Fuel Accrual E002/M-05-1648
- Community Solar Gardens Program E002/M-13-867
- Renewable*Connect Government Program E002/M-15-985
- Renewable*Connect Docket No. E002/M-19-33
- Solar Energy Standard Exemption E002/M-17-425, Order dated October 12, 2017
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Northern States Power Company, a Minnesota corporation

Schedule of Fuel Adjustment Clause Factors of Northern States Power Company, a Minnesota corporation, for the period from January 1, 2022 to December 31, 2022, and Independent Accountant's Report on Applying Agreed-Upon Procedures

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INDEPENDENT ACCOUNTANT'S REPORT

To the Board of Directors of Northern States Power Company, a Minnesota corporation

We have performed the procedures enumerated below, on Northern States Power Company, a Minnesota corporation's (the "Company") Schedule of Fuel Adjustment Clause Factors filed with the Minnesota Public Utilities Commission (the "Commission"), covering the period from January 1, 2022 to December 31, 2022, in accordance with Commission Rules 7825.2700 to 7825.2820 governing automatic adjustment of energy charges, and with the Fuel Clause Riders and Dockets as defined on Sheet Nos. 5-91, 5-91.1, 5-91.2, and 5-91.3 of the Company's tariff (the "subject matter"). The Company is responsible for the subject matter.

The Company has agreed to and acknowledged that the procedures performed are appropriate to meet the intended purpose of assisting the Company and the Commission (each and collectively, the "specified parties") in evaluating the subject matter from January 1, 2022 to December 31, 2022.

We make no representation regarding the appropriateness of the procedures either for the purpose for which our report has been requested or for any other purpose. Accordingly, this report may not be suitable for either the purpose of which this report has been requested or for any other purpose. The procedures performed may not address all the items of interest to a user of this report and may not meet the needs of all users of this report and, as such, users are responsible for determining whether the procedures performed are appropriate for their purposes. The procedures performed are specified in Commission Rules 7825.2700 to 7825.2820 governing automatic adjustment of energy charges.

Our procedures and findings are as follows:

- a. We compared the documentation in support of payments and invoices received from energy suppliers for the period from January 1, 2022 to December 31, 2022 for 24 selections related to energy costs made during our procedures and found them to be in agreement.
- b. We compared the base costs of power, approved by the Commission, to the base costs of power used by the Company for the period from January 1, 2022 to December 31, 2022 and found them to be in agreement.
- c. We recalculated the billing adjustment charge (credit) per kWh charged to customers for purchased power for the period from January 1, 2022 to December 31, 2022, by customer class, and noted no exceptions between our recalculation and the Company's reported adjustment.
- d. We compared the accounting records for the revenues billed to customers for energy delivered to the total sales of electric energy for the period from January 1, 2022 to December 31, 2022 and found them to be in agreement.
- e. We randomly selected 24 individual billings across each of the customer class categories for the period from January 1, 2022 to December 31, 2022 and recalculated the automatic adjustment of

Docket No. E002/AA-21-295 True-up Report Part E, Attachment 2 Page 3 of 4

charges and credits and traced to individual customer's subsidiary records to ensure that the calculated credit or charge was correctly recorded, noting no exceptions.

- f. We did not identify any corrections to Fuel Adjustment Clause charges or other billing errors for the period from January 1, 2022 to December 31, 2022.
- g. We reconciled total revenue and the cost of power for the period from January 1, 2022 to December 31, 2022 to the Company's general ledger and found them to be in agreement, when considering applicable reconciling items, with the Fuel Adjustment Clause Factors calculation underlying detail.
- h. We have recalculated the true-up calculation and have traced the related revenue and expense amounts for the period from January 1, 2022 to December 31, 2022 to the company's accounting records and found them to be in agreement with the amounts used in the true-up calculation.
- i. We selected a sample of 12 accounting records and through inspection we identified no exceptions with the accounting separation of retail and wholesale financial instruments.
- j. We inspected vendor invoices and traced gains and losses to the accounting records for one selection to determine if any wholesale electric financial instrument gains or losses were recorded in accordance with the Federal Energy Regulatory Commission Uniform System of Accounts ("account" or "accounts") account 555 or account 804 and we didn't identify any such gains or losses as mentioned above in these accounts.

We were engaged by the Company to perform this agreed-upon procedures engagement and conducted our engagement in accordance with attestation standards established by the American Institute of Certified Public Accountants. We were not engaged to and did not conduct an examination or review engagement, the objective of which would be the expression of an opinion or conclusion, respectively, on the subject matter. Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

We are required to be independent of the Company and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements related to our agreed-upon procedures engagement.

This report is intended solely for the information and use of the Company and the Commission and is not intended to be, and should not be used by anyone other than the specified parties.

Deloutte 3 Touch LLP

February 28, 2023

NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION

STATE OF MINNESOTA RETAIL ELECTRIC CUSTOMERS SCHEDULE OF FUEL ADJUSTMENT CLAUSE FACTORS FOR THE PERIOD FROM JANUARY 1, 2022 TO DECEMBER 31, 2022

(DOLLAR PER KWH)

| | Re | esidential | _ | C&I Non- Demand | I Demand Non-TOD | I Demand On-Peak | I Demand Off-Peak | door nting |
|-------------------|----|------------|----|--------------------|-------------------------|-------------------------|--------------------------|-------------------|
| January 1, 2022 | \$ | 0.02597 | \$ | 0.02630 | \$ 0.02548 | \$ 0.03184 | \$ 0.02086 | \$ 0.02038 |
| February 1, 2022 | \$ | 0.03066 | \$ | 0.03104 | \$ 0.03008 | \$ 0.03761 | \$ 0.02460 | \$ 0.02403 |
| March 1, 2022 | \$ | 0.03268 | \$ | 0.03309 | \$ 0.03206 | \$ 0.04009 | \$ 0.02623 | \$ 0.02562 |
| April 1, 2022 | \$ | 0.03256 | \$ | 0.03297 | \$ 0.03194 | \$ 0.03992 | \$ 0.02614 | \$ 0.02554 |
| May 1, 2022 | \$ | 0.03453 | \$ | 0.03496 | \$ 0.03387 | \$ 0.04234 | \$ 0.02772 | \$ 0.02708 |
| June 1, 2022 | \$ | 0.03979 | \$ | 0.04029 | \$ 0.03903 | \$ 0.04880 | \$ 0.03194 | \$ 0.03119 |
| July 1, 2022 | \$ | 0.03776 | \$ | 0.03823 | \$ 0.03704 | \$ 0.04632 | \$ 0.03030 | \$ 0.02959 |
| August 1, 2022 | \$ | 0.03778 | \$ | 0.03825 | \$ 0.03705 | \$ 0.04635 | \$ 0.03030 | \$ 0.02960 |
| September 1, 2022 | \$ | 0.04119 | \$ | 0.04170 | \$ 0.04040 | \$ 0.05051 | \$ 0.03305 | \$ 0.03228 |
| October 1, 2022 | \$ | 0.03926 | \$ | 0.03975 | \$ 0.03851 | \$ 0.04816 | \$ 0.03151 | \$ 0.03078 |
| November 1, 2022 | \$ | 0.03724 | \$ | 0.03770 | \$ 0.03652 | \$ 0.04567 | \$ 0.02988 | \$ 0.02918 |
| December 1, 2022 | \$ | 0.03423 | \$ | 0.03467 | \$ 0.03359 | \$ 0.04199 | \$ 0.02749 | \$ 0.02684 |

TRUE-UP FACTORS FOR THE PERIOD JANUARY 1, 2022 TO DECEMBER 31, 2022

(DOLLAR PER KWH)

| Annual true-up filing March 1, 2023 (true-up factors proposed for September 2023) | Residential | C&I Non- Demand | C&I Demand Non-TOD | C&I Demand On-Peak | C&I Demand Off-Peak | Outdoor Lighting |
|--|--------------|--------------------|-----------------------|-----------------------|------------------------|---------------------|
| September 2023 | \$ (0.00167) | \$ (0.00169) | \$ (0.00164) | \$ (0.00205) | \$ (0.00134) | \$ (0.00131) |

This Schedule of Fuel Adjustment Clause Factors is based on the requirements of the Minnesota Public Utilities Commission (the "Commission") Rules 7825.2700 to 7825.2820 governing automatic adjustment of energy charges, and with the Fuel Clause Riders and Dockets as defined on Sheet Nos. 5-91, 5-91.1, 5-91.2 and 5.-91.3 of the electric rates filed by the Company with the Commission, including Commission Revisions.

Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 1 Page 1 of 3

Miscellaneous Purchased Power Reporting

1. Renewable Energy Purchase Agreement (REPA) with KODA Energy, LLC (Docket No. E002/M-08-1098)

The Company is required to report in this annual report whether Xcel Energy has obtained any revenue from any source as a result of this REPA and to itemize any such revenues by source and amount. As of this AAA reporting period, the Company has not received any new revenue as described in this Order. The Company will continue to monitor and report any such revenue in future AAA reports.

2. Power Purchase Agreement with WM Renewable Energy, LLC (Docket No. E002/M-10-161)

On April 30, 2010, the Commission approved the Company's Replacement Power Purchase Agreement with WM Renewable Energy, LLC. The Order also requires the Company to report any curtailments and curtailment payments of power from this Burnsville landfill gas facility in the monthly FCA filings. This PPA was terminated effective March 26, 2021, and the Company is not aware of any curtailments or curtailment payments during the current reporting period. We will cease reporting on this PPA in future annual reports since the PPA has been terminated.

3. Power Purchase Agreement with Diamond K Dairy, Inc. (Docket No. E002/M-10-486)

On August 26, 2010, the Commission approved the Company's Power Purchase Agreement with Diamond K Dairy, Inc. The Company is required to report in the AAA report any revenues the Company has received from any or all sources as a result of this PPA, and to report and itemize any such revenues by source and amount. This PPA was terminated effective April 6, 2019, and the Company has not received any new revenue as described in this Order during the current reporting period. We will cease reporting on this PPA in future annual reports since the PPA has been terminated.

4. HERC PPA (Docket No. E002/M-17-532)

In a February 1, 2018 letter filed in Docket No. E002/M-17-532, the Company committed to provide the Commission with additional supporting information about the interim costs associated with the HERC PPA.

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous Purchased Power Reporting Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 1 Page 2 of 3

By way of background, the NSP-HERC PPA dated August 1, 1986, as amended, provides that HERC may offer the output of the plant to NSP for an additional seven years (January 1, 2018 through December 31, 2024) at its fair market value to NSP at the time it is offered. The Commission's December 28, 2017 Order in Docket No. E002/M-17-532 did not approve certain prices negotiated by the parties. Pursuant to the PPA, in May 2018 HERC notified NSP that it desired to arbitrate the pricing for the seven-year extension term (Extension Term).

Pending resolution of permanent pricing for the Extension Term, the parties entered into an interim agreement (Interim Agreement) in which NSP purchased HERC's energy during 2018 at the day-ahead MISO Locational Marginal Price (LMP) at the NSP.ALDRIHERC node as adjusted for any applicable MISO market charges and real time settlement differences (LMP Pricing). NSP and HERC entered into an amendment to the Interim Agreement on October 20, 2020, which extended the Interim Agreement through December 31, 2021. LMP pricing was used throughout the 2021 calendar year AAA reporting period.

On April 1, 2021 a decision was rendered in the arbitration case in favor of NSP that the fair market value of HERC's energy during the Extension Term is LMP Pricing. NSP and HERC subsequently entered into an Extension Amendment to the HERC PPA dated November 22, 2021 agreeing that LMP Pricing applies to energy sold by HERC to NSP during the Extension Term and that no retroactive adjustment to the LMP Pricing of energy previously sold to NSP during the Extension Term is required.

Part C, Attachment 7 shows the production and invoiced amounts under the HERC Extension Amendment for the 2022 calendar year. The total cost paid during reporting period was \$9.0 million, which is an average cost of \$45.13/MWh.

5. Offsetting Revenues or Compensation Resulting from Contracts, Investments Paid for by Ratepayers

The Commission's April 6, 2012 ORDER ACTING ON ELECTRIC UTILITIES' ANNUAL REPORTS AND REQUIRING ADDITIONAL FILINGS in Docket Nos. E999/AA-09-961 and E999/AA-10-884, the 2009 and 2010 AAA report dockets, requires the Company to report in future AAA filings any offsetting revenues or compensation recovered as a result of contracts, investments, or expenditures paid for by their ratepayers.

As of this current AAA reporting period, all applicable offsetting revenues and/or compensation resulting from fuel and purchased energy related contracts,

Northern States Power Company Electric Operations – State of Minnesota Miscellaneous Purchased Power Reporting Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 1 Page 3 of 3

investments, and expenditures paid for by ratepayers are credited back to ratepayers through the fuel clause. Credits during the 2022 reporting period are commercial operation date (COD) delay damage payments of \$5.0 million for the Heartland Divide Wind II, LLC PPA and a \$0.3 million refund of excess purchased power costs from the Lac Courte Oreilles Band of Lake Superior Chippewa Indians PPA, which was terminated effective December 31, 2021.

Northern States Power Company Electric Operations – State of Minnesota Renewable*Connect Neutrality Charge Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 2 Page 1 of 2

Renewable*Connect Neutrality Charge (Docket No. E002/M-15-985)

The Commission's February 27, 2017 Order in Docket No. E002/M-15-985, approving the Company's Renewable*Connect program, requires the Company to "provide in its Annual Automatic Adjustment reports a separate section discussing the pilot programs' impact on non-participants and the effectiveness of the neutrality charge to address any cost shift between participants and nonparticipants."

To test the effectiveness of the Company's neutrality charge, the Company reviewed the actual system impact of the resources across the identified categories. Line losses, which accounted for nearly two-thirds of neutrality expenses in 2022, were the most significant impact across the cost categories as illustrated in Table 1 below. Curtailments on program solar resources totaled approximately \$219,000, and \$42,796 were allocated to the program. Wind curtailments associated with the program's wind resource decreased in 2022. Wind curtailments totaled approximately \$949,000 and \$148,367 were allocated to the program.

Wind integration cost rates provided in the Company's Dakota Range filing in Docket No. E002/M-17-694 were also used to estimate the cost of the integration of the program's wind resources. The analysis results in an estimate of approximately \$240,000 in wind integration costs for the 2022 reporting period.

To understand the potential impact of the Renewable*Connect Program on non-participant energy cost, the Company performed an analysis that compared the marginal cost of energy: in this case, on- and off-peak LMP pricing, to the PPA cost of solar and wind resources allocated to Renewable*Connect consistent with the analysis the Company performed for the prior annual compliance filing. Since Odell Wind and NorthStar Solar Energy were originally procured for the Fuel Clause paying customers, moving this higher cost energy from the Fuel Clause to Renewable*Connect has a positive impact on non-participants.

Overall, neutrality payments fell short of participant cost by approximately \$243,000 in 2022. However, over the life of the program, when factoring the economic benefit of moving the higher priced Odell wind and North Star solar from the Fuel Clause to Renewable*Connect, the net result is that non-participants have received roughly a \$2.5 million benefit due to the Renewable*Connect program.

Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 2 Page 2 of 2

Table 1: Non-Participants Impact

| (in \$000s) | Total | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 |
|-----------------------------|-----------|---------|--------------------|-----------|-----------|---------|---------|
| Line Losses | \$3,014 | \$712 | \$677 | \$641 | \$532 | \$359 | \$92 |
| Solar Curtailments | \$163 | \$43 | \$29 | \$66 | \$17 | \$4 | \$3 |
| Wind Curtailments | \$500 | \$148 | \$302 | \$35 | \$11 | \$4 | \$0 |
| Economic/Balancing | \$1,160 | \$240 | \$228 | \$230 | \$227 | \$185 | \$50 |
| Total | \$4,836 | \$1,143 | \$1,236 | \$973 | \$787 | \$552 | \$145 |
| | | | | | | | |
| Neutrality Payments | \$4,455 | \$900 | \$876 | \$891 | \$884 | \$717 | \$187 |
| | | | | | | | |
| Non-Participant | | \$243 | | | | | |
| Cost/(Benefit) | \$381 | | \$360 | \$82 | (\$97) | (\$165) | (\$42) |
| | | | | | | | |
| Net Economic | | | | | | | |
| Cost/(Benefit) ¹ | (\$2,878) | \$2,168 | \$566 ² | (\$2,889) | (\$1,792) | (\$688) | (\$244) |
| | | | | | | | |
| Total Cost/(Benefit) | (\$2,498) | \$2,411 | \$926 | (\$2,807) | (\$1,889) | (\$853) | (\$286) |

¹ Since Odell Wind and NorthStar Solar Energy were originally procured for the system, moving this higher cost energy from the Fuel Clause to Renewable*Connect provides a benefit to non-participant relative to energy procured at LMP.

² Corrected Net Economic Cost/(Benefit) & Total Cost/(Benefit) for 2021. The 2021 report inadvertently used 2020 Renewable*Connect Production Costs instead of 2021 costs.

Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 3 Page 1 of 1

Unusual Items Over \$500,000 (Docket Nos. E999/AA-09-961, E999/AA-10-884 and E999/AA-18-373)

The Commission's April 6, 2012 ORDER ACTING ON ELECTRIC UTILITIES' ANNUAL REPORTS AND REQUIRING ADDITIONAL FILINGS in Docket Nos. E999/AA-09-961 and E999/AA-10-884 (the 2008-2009 and 2009-2010 AAA report dockets) requires the Company to provide footnotes in future monthly FCA filings and future AAA filings to explain unusual adjustments of \$500,000 and higher on a going forward basis. In addition, the Commission's November 13, 2019 Order in Docket No. E999/AA-18-373 (the 2017-2018 AAA report docket) requires the Company to identify and include error reports in future AAA filings and annual FCA true-up filings under the new FCA reform process. Table 1 below describes any such unusual items or errors during the 2022 reporting period.

Table 1: Unusual Items Over \$500,000

| Item Pertaining To | Period Affected | Descriptions | Amount (negative indicates cost decrease) | FCA Impact |
|--------------------------------------|--------------------|--|---|---------------|
| Windsource Program Expenses | Feb-22 | We recorded the true up of expenses allocated to the Windsource program related to 2020 and 2021. | (\$1,507,135) | Yes |
| Heartland Divide Delay Damages | Apr-22 | Heartland Divide Wind II delayed COD until April 12, 2022, which resulted in delay damage payments of \$5,000,000 (System Total). | (\$5,000,000) | Yes |
| Lake Benton Wind | Oct-22 | We recorded a \$5,000,000 reduction of purchased power expense for funds received for congestion impacts due to settlement with NEE. | (\$5,000,000) | Yes |

Northern States Power Company Electric Operations – State of Minnesota Rule Variance Dockets Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 4 Page 1 of 2

The Commission's July 21, 2017 Order in Docket No. E999/AA-15-611 requires electric utilities to identify all dockets in which the Commission has granted rule variances to a utility's FCA (such as those authorizing true-up provisions, those allowing costs of purchased power adjustments to flow through the FCA, and those allowing MISO costs and revenues to be included in the FCA). The variances and dockets pertaining to the 2022 FCA true-up and AAA reporting period are listed below.

- Wind, Biomass and Others E002/M-95-244, E002/M-96-934, E,G002/M-97-985, E002/M-17-530, E002/M-17-531, E002/M-17-532, E002/M-17-551, and E002/M-17-694
- Fuel Clause Reform E999/CI-03-802, Orders dated December 19, 2017, June 12, 2019, and November 5, 2019
- 2021 Fuel Forecast and Factors E002/AA-20-417, Order dated July 5, 2022
- 2022 Fuel Forecast and Factors— E002/AA-21-295, Order dated December 2, 2021 and Rate Adjustment filing dated May 19, 2022

For the 12 months ending December 31, 2022, computations of the monthly fuel clause adjustment factors also reflected the MISO Day 2 and ASM charges recovery, wind contracts curtailment payments, renewable energy purchase agreements, Windsource exemption and end-of-life nuclear fuel accrual. These additional components of the FCA were approved by the MPUC in the following dockets:

- MISO ASM E002/M-08-528
- MISO Day 2 E002/M-04-1970
- Wind Contracts Curtailment Payments E002/M-00-622, E002/M-02-51, E002/M-04-404, E002/M-04-864, E002/CN-01-1958, E,G999/AA-04-1279, E002/M-05-1850, E002/M-05-1934, and E002/M-06-85
- Renewable Energy Purchase Agreements:
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Northern States Power Company Electric Operations – State of Minnesota Rule Variance Dockets Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 4 Page 2 of 2

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- Community Solar Gardens Program E002/M-13-867
- Renewable*Connect Government Program E002/M-15-985
- Renewable*Connect Docket No. E002/M-19-33
- Solar Energy Standard Exemption E002/M-17-425, Order dated October 12, 2017
- Acquisition of Community Wind North and Jeffers Wind Facilities E002/PA-18-777, Order dated December 3, 2019

| _ | | | April 30, 2021 | March 1, 2023 |
|-------------------------------------|---|-----------------------------------|--|-----------------------|
| Former AAA | Description | Docket or Rule | Annual Forecast of Rates | Annual True-Up Filing |
| Part D, Section 1 and all Schedules | Policies and Actions: Fuel Procurement | Rule 7825.2800 | Part D, Attachment 1 | Part D, Attachment 1 |
| D-1, Schedule 1 | Nuclear Fuel Component of Service | Rule 7825.2800 | Part D, Attachment 2 | Part D, Attachment 2 |
| | Coal Contracts | Rule 7825.2800 | Part D, Attachment 3 | Part D, Attachment 3 |
| D-1, Schedule 3 | Transportation & Related Services Contracts | Rule 7825.2800 | Part D, Attachment 4 | Part D, Attachment 4 |
| D-1, Schedule 4 | Wood and RDF Contracts | Rule 7825.2800 | Part D, Attachment 5 | Part D, Attachment 5 |
| D-1, Schedule 5 | Cost Changes | Rule 7825.2800 | Part D, Attachment 6 | Part D, Attachment 6 |
| Part D. Section 2 | Policies and Actions: Dispatching Policies and Procedures | Rule 7825.2800 | Part D, Attachment 7 | Part D, Attachment 7 |
| Part D, Section 3 | Policies and Actions: Fuel Supply | Rule 7825.2800 | Part D, Attachment 8 | Part D, Attachment 8 |
| Part D. Section 4 | Policies and Actions: Conservation and Load Management Policy | Rule 7825.2800 | Part D, Attachment 9 | Part D, Attachment 9 |
| Part D, Section 5 | Policies and Actions: Other Actions to Minimize Costs | Rule 7825.2800 | Part D, Attachment 10 | Part D, Attachment 10 |
| Part E, Section 1 | Annual Report of Automatic Adjustment Charges: Base Cost of Fuel | Rule 7825.2810; Docket 04-1279 | Part A, Attachment 1 and discussed in Petition | Report Narrative |
| Part E, Section 2 | Annual Report of Automatic Adjustment Charges: Billing Adjustment Amounts Charged to Customers for Each Type of Energy Cost | Rule 7825.2810; Docket 04-1279 | Discussed in Petition | Part A |
| Part F. Section 3 | Annual Report of Automatic Adjustment Charges: Total Cost of Fuel Delivered to Customers | Rule 7825.2810; Docket 04-1279 | Discussed in Petition | Part A |
| Part E, Section 4 | Annual Report of Automatic Adjustment Charges: Revenue Collected from Customers for Energy Delivered | Rule 7825.2810; Docket 04-1279 | Discussed in Petition | Part A |
| Part F. Section 5 | Annual Report of Automatic Adjustment Charges: Monthly Fuel Clause Adjustment | Rule 7825.2810; Docket 04-1279 | Part A, Attachment 1 and discussed in Petition | Part A, Attachment 4 |
| Part F, Schedule 1 | Memo Engaging Auditor | Rule 7825.2820 | NA | Part E, Attachment 1 |
| Part F, Schedule 2 | Independent Auditor's Report | Rule 7825.2820 | NA | Part E, Attachment 2 |
| Part G, Schedule 1 | 5-Year Fuel Cost Forecast – Per Unit Summary | Rule 7825.2830 | Part A, Attachment 1 Part E, Attachment 1 | NA |
| Part G, Schedule 2 | 5-Year Fuel Cost Forecast – Cost Summary | Rule 7825.2830 | Part A, Attachment 2 Part E, Attachment 2 | NA |
| Part G, Schedule 3 | 5-Year Fuel Cost Forecast – Energy Summary | Rule 7825.2830 | Part A, Attachment 3 Part E, Attachment 3 | NA |
| Part G, Schedule 4 | Fossil Fuel Costs | Rule 7825.2830 | Part B, Attachment 2 | NA |
| Part G, Schedule 5 | Coal Burn Expenses | Rule 7825.2830 | Part B, Attachment 3 | NA |
| Part G, Schedule 6 | Nuclear Fuel Expenses | Rule 7825.2830 | Part B, Attachment 4 | NA |
| Part G, Schedule 7 | Peak Demand and Energy Requirements | Rule 7825.2830 | Part A, Attachment 4 Part E, Attachment 4 | NA |
| Part G, Schedule 8 | Estimated Load Management Impact | Rule 7825.2830 | Part E, Attachment 5 | NA |

| F | Description. | Destat on Bull | April 30, 2021 | March 1, 2023 |
|------------------------|---|---------------------------------|--------------------------|-------------------------------------|
| Former AAA | Description | Docket or Rule | Annual Forecast of Rates | Annual True-Up Filing |
| Part H, Section 3 | Natural Gas Financial Instruments | Dockets M-01-1953 and AA-02- | NA | Report Narrative |
| rait ii, section s | INACUIAI Gas Financiai instruments | 950 | NA . | Part E, Attachments 1 and 2 |
| | | Dockets M-00-622, M-02-51, M- | | |
| Part H, Section 5, | Wind Curtailment Summary | 04-404, CN-01-1958, M-04-864, | NA | Part C, Attachment 2 |
| Schedule 1 | Wind Cartainnent Summary | M-05-1850, M-05-1934 and M-06 | | art c, Attachment 2 |
| | | 85 | | |
| Part H, Section 5, | Wind Curtailment Report Narrative | Docket AA-04-1279 | Discussed in Petition | Part C, Attachment 1 |
| Schedule 2 | Willia Cartailinent Report Narrative | DOCKET AA-04-1279 | Part G, Workpaper 10 | Fait C, Attachment 1 |
| Part H, Section 6 | KODA PPA | Docket M-08-1098 | NA | Part F, Attachment 1 |
| Part H, Section 7 | WMRE PPA | Docket M-10-61 | NA | Part F, Attachment 1 |
| Part H, Section 8 | Diamond K Dairy PPA | Docket M-486 | NA | Part F, Attachment 1 |
| Part H, Section 9 and | | | Discussed in Petition | Part C, Attachments 8, 9, 10 |
| Schedules H-9-1 and H- | Community Solar Gardens | Docket M-13-867 | Part B, Attachment 12 | Report Narrative |
| 9-2 | | | Part G, Workpapers 8 & 9 | Report Narrative |
| Dort II Continu 10 | FCA Rule Variance Dockets | Docket AA-15-611 | Discussed in Petition | Dowt F. Attachment 1 |
| Part H, Section 10 | FCA Rule Variance Dockets | Docket AA-15-611 | Part C, Attachment 2 | Part F, Attachment 4 |
| Part H, Section 11 | HERC | Docket M-17-532 | NA | Part F, Attachment 1 |
| | Summary of key factors affecting costs in the forecast, | Docket 04-1970, Docket 06-1208, | | |
| Part J, Sections 1-3 | | Docket GR-05-1428 | Discussed in Petition | NA |
| | and plan for acquiring fuel and purchased energy | DOCKEL GR-05-1428 | | |
| | | | Discussed in Petition | |
| Part J, Section 5 | Monthly MISO Day 2 charges and allocation | Docket AA-07-1130 | Part B, Attachment 8 | Part B |
| | | | Part F, Workpaper 5 | |
| Dart I Costion 6 | Annual and Daily Ancillary Services Market charges and | Docket M-08-528 | NA | Part B |
| Part J, Section 6 | summary | DOCKET IVI-08-328 | INA | Part B |
| Part K, Section 1 | Generation facilities maintenance expenses | Docket AA-06-1208 | NA | Part C, Attachment 6 |
| Part K, Section 3 | Contractor and supplier performance | Docket AA-08-995 | NA | Part C, Attachment 3 |
| Part K, Section 4 | Offsetting Revenues and/or compensation Received by | Docket AA-10-884 | NA | Part F, Attachment 1 |
| Schedule 1 | IOUs | DOCKET AA-10-884 | IVA | Faiti, Attaciment 1 |
| Part K, Section 4 | Handling of forced outages | Docket 08-995 and Docket AA-10- | NA | Part C, Attachments 3, 4, 5 |
| Schedule 2 | Handling of forced outages | 884 | INA | Part C, Attachments 3, 4, 5 |
| Part K, Section 4 | House Adjustments over \$500,000 | Dockets AA-09-961 and AA-10- | NA | Dart F. Attachment 2 |
| Schedule 3 | Unusual Adjustments over \$500,000 | 884 | NA | Part F, Attachment 3 |
| Now Compliance | Colf Cohoduling | Docket AA 17 402 | NA | Provided in 3/1/23 Report in Docket |
| New Compliance | Self-Scheduling | Docket AA-17-492 | NA | No. E999/CI-19-704 |
| Dart M | Notice of Deports Availability | Bulo 7925 2940 | Addandum to Potition | Dart F. Attachment 7 |
| Part M | Notice of Reports Availability | Rule 7825.2840 | Addendum to Petition | Part F, Attachment 7 |
| Now Compliance | Panayahla*Connect Noutrality | Docket M-15-985 | Discussed in Petition | Part F. Attachment 2 |
| New Compliance | Renewable*Connect Neutrality | DOCKEL IAI-13-202 | Part G, Workpaper 14 | Part F, Attachment 2 |

Northern States Power Company Electric Operations – State of Minnesota Trade Secret Justification Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 6 Page 1 of 2

TRADE SECRET JUSTIFICATION:

Under Minnesota Stat. § 13.37, trade secret information is defined as including a compilation of government data that 1) was supplied by the affected individual or organization, 2) is subject of efforts by the individual or organization that are reasonable under the circumstances to maintain its secrecy, and 3) derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use.

The fuel supply, fuel cost, fuel cost forecast and wind curtailment information designated as Trade Secret in this True-Up and AAA Report meets this definition for the following reasons:

- 1. This information meets the first criterion as it is submitted by Xcel Energy, which is an affected organization.
- 2. The information meets the second criterion in the statute because Xcel Energy makes extensive efforts to maintain the secrecy of this information. The information is not available outside of the Company except to (i) the other parties involved in the contracts subject to the non-disclosure provisions contained in the contracts, and (ii) regulatory agencies under the confidentiality provisions of state or federal law. This is evidenced by the non-disclosure provisions in the contracts.
- 3. The information meets the third criterion in the statute because the information has economic value to Xcel Energy, its customers, suppliers, and competitors. First, if suppliers knew the terms of Xcel Energy's electric and fuel supply and transportation contracts, they may be able to use this knowledge to fashion bids to Xcel Energy. While their bids may be competitive with existing contracts, they could be at a price higher than the best price the supplier can offer or the current market price. Second, suppliers will be reluctant to offer special favorable terms to Xcel Energy if they know other competitors or customers will gain knowledge of the terms and demand similar terms in the future. Third, competitors of Xcel Energy also purchase these services. These competitors may be able to leverage knowledge of Xcel Energy's costs to gain similar terms or may negotiate slightly better prices from the supplier. Any of these results would harm Xcel Energy and its customers. Because Xcel Energy competes for purchased energy, fuel and transportation services in a competitive marketplace, disclosure would directly harm Xcel

Northern States Power Company Electric Operations – State of Minnesota Trade Secret Justification Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 6 Page 2 of 2

Energy by making its delivered supply costs less competitive. The forecast of future fuel costs includes assumptions of future market prices for fuel not yet procured under contract. This information would give future potential suppliers knowledge of Xcel Energy's forecast of fuel prices that may not be the actual market price when procurement bids are requested. This knowledge may directly affect the prices submitted under bid or renegotiated during contract renewal.

Contract confidentiality clauses in existing fuel supply contracts require suppliers' authorization prior to the release of any information pertaining to contract terms and conditions. Suppliers limit the public disclosure of this information to maintain their competitive position in the marketplace. Fuel and transportation services are not purchased in an open, commoditized marketplace. Prices are the result of closed bidding or direct negotiations and are not publicly available.

Xcel Energy requests Trade Secret protection of this information to maintain the Company's competitive position in the marketplace. If our competitors knew our pricing information, they could use it to possibly extract advantageous terms from Xcel Energy or other suppliers, which would result in financial harm to Xcel Energy and its customers.

Northern States Power Company Electric Operations - State of Minnesota Notice of Report Availability Docket No. E002/AA-21-295 True-Up Report Part F, Attachment 7 Page 1 of 1

STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben Chair

Valerie Means Commissioner
Matthew Schuerger Commissioner
Joseph K. Sullivan Commissioner
John A. Tuma Commissioner

IN THE MATTER OF THE PETITION OF NORTHERN STATES POWER COMPANY FOR APPROVAL OF THE 2022 ANNUAL FUEL FORECAST AND MONTHLY FUEL COST CHARGES DOCKET NO. E002/AA-21-295

NOTICE OF REPORT AVAILABILITY
ANNUAL TRUE-UP REPORT

On March 1, 2023, Northern States Power Company, doing business as Xcel Energy, filed a report with the Minnesota Public Utilities Commission for the 12 months ending December 31, 2022 involving the following MPUC Rules:

7825.2800 Annual Reports; Policies & Actions

7825.2810 Annual Report; Automatic Adjustment Charges

7825.2820 Annual Auditor's Report

7825.2830 Annual Five-Year Projection

Also included in the report are the MISO Day 2 and ASM compliance reporting requirements and additional fuel clause related reporting requirements under various Commission Orders.

The aforementioned 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) and upon written request to the following:

Xcel Energy Regulatory Administration 414 Nicollet Mall – 401 7th Floor Minneapolis, MN 55401

CERTIFICATE OF SERVICE

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

- <u>xx</u> by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota
- xx electronic filing

Docket No. E002/AA-21-295

E002/GR-21-630 E002/GR-15-826

Dated this 1st day of March 2023

/s/

Joshua DePauw Regulatory Administrator

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| Amber | Hedlund | amber.r.hedlund@xcelener gy.com | Northern States Power Company dba Xcel Energy- Elec | 414 Nicollet Mall, 401-7 Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Adam | Heinen | aheinen@dakotaelectric.co m | Dakota Electric Association | 4300 220th St W Farmington, MN 55024 | Electronic Service | No | OFF_SL_21-630_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_21-630_Official CC Service List |
| Katherine | Hinderlie | katherine.hinderlie@ag.stat e.mn.us | Office of the Attorney General-DOC | 445 Minnesota St Suite 1400 St. Paul, MN 55101-2134 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Michael | Норре | lu23@ibew23.org | Local Union 23, I.B.E.W. | 445 Etna Street Ste. 61 St. Paul, MN 55106 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Geoffrey | Inge | ginge@regintllc.com | Regulatory Intelligence LLC | PO Box 270636 Superior, CO 80027-9998 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Alan | Jenkins | aj@jenkinsatlaw.com | Jenkins at Law | 2950 Yellowtail Ave. Marathon, FL 33050 | Electronic Service | Yes | OFF_SL_21-630_Official CC Service List |
| Richard | Johnson | Rick.Johnson@lawmoss.co m | Moss & Barnett | 150 S. 5th Street Suite 1200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
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| First Name | Last Name | Email | Company Name | Address | Delivery Method | View Trade Secret | Service List Name |
|------------|---------------|------------------------------------|---|--|--------------------|-------------------|---|
| Brad | Klein | bklein@elpc.org | Environmental Law & Policy Center | 35 E. Wacker Drive, Suite 1600 Suite 1600 Chicago, IL 60601 | Electronic Service | No | OFF_SL_21-630_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_21-630_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_21-630_Official CC Service List |
| Peder | Larson | plarson@larkinhoffman.co m | Larkin Hoffman Daly & Lindgren, Ltd. | 8300 Norman Center Drive Suite 1000 Bloomington, MN 55437 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| 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_21-630_Official CC Service List |
| Ryan | Long | ryan.j.long@xcelenergy.co m | Xcel Energy | 414 Nicollet Mall 401 8th Floor Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Alice | Madden | alice@communitypowermn. | Community Power | 2720 E 22nd St Minneapolis, MN 55406 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Kavita | Maini | kmaini@wi.rr.com | KM Energy Consulting, LLC | 961 N Lost Woods Rd Oconomowoc, WI 53066 | Paper Service | No | OFF_SL_21-630_Official CC Service List |
| Mary | Martinka | mary.a.martinka@xcelener gy.com | Xcel Energy Inc | 414 Nicollet Mall 7th Floor Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |

| First Name | Last Name | Email | Company Name | Address | Delivery Method | View Trade Secret | Service List Name |
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| Erica | McConnell | emcconnell@elpc.org | Environmental Law & Policy Center | 35 E. Wacker Drive, Suite 1600 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| | | | | Chicago, IL 60601 | | | |
| Greg | Merz | greg.merz@ag.state.mn.us | Office of the Attorney General-DOC | 445 Minnesota Street Suite 1400 St. Paul, | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| | | | | MN 55101 | | | |
| 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_21-630_Official CC Service List |
| Stacy | Miller | stacy.miller@minneapolism n.gov | City of Minneapolis | 350 S. 5th Street Room M 301 Minneapolis, MN 55415 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| David | Moeller | dmoeller@allete.com | Minnesota Power | 30 W Superior St Duluth, MN 558022093 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Andrew | Moratzka | andrew.moratzka@stoel.co m | Stoel Rives LLP | 33 South Sixth St Ste 4200 Minneapolis, MN 55402 | Electronic Service | Yes | OFF_SL_21-630_Official CC Service List |
| Christa | Moseng | christa.moseng@state.mn. us | Office of Administrative Hearings | P.O. Box 64620 Saint Paul, MN 55164-0620 | Electronic Service | Yes | OFF_SL_21-630_Official CC Service List |
| David | Niles | david.niles@avantenergy.c om | Minnesota Municipal Power Agency | 220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Carol A. | Overland | overland@legalectric.org | Legalectric - Overland Law Office | 1110 West Avenue Red Wing, MN 55066 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |

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| Generic Notice | Residential Utilities Division | residential.utilities@ag.stat e.mn.us | Office of the Attorney General-RUD | 1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131 | Electronic Service | Yes | OFF_SL_21-630_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_21-630_Official CC Service List |
| Amanda | Rome | amanda.rome@xcelenergy. | Xcel Energy | 414 Nicollet Mall FL 5 Minneapoli, MN 55401 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Joseph L | Sathe | jsathe@kennedy- graven.com | Kennedy & Graven, Chartered | 150 S 5th St Ste 700 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Richard | Savelkoul | rsavelkoul@martinsquires.c om | Martin & Squires, P.A. | 332 Minnesota Street Ste W2750 St. Paul, MN 55101 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Elizabeth | Schmiesing | eschmiesing@winthrop.co m | Winthrop & Weinstine, P.A. | 225 South Sixth Street Suite 3500 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_21-630_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_21-630_Official CC Service List |
| Christine | Schwartz | Regulatory.records@xcele nergy.com | Xcel Energy | 414 Nicollet Mall FL 7 Minneapolis, MN 554011993 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| 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_21-630_Official CC Service List |

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|------------|----------------|----------------------------------|--|--|--------------------|-------------------|---|
| Janet | Shaddix Elling | jshaddix@janetshaddix.co m | Shaddix And Associates | 7400 Lyndale Ave S Ste 190 Richfield, MN 55423 | Electronic Service | Yes | OFF_SL_21-630_Official CC Service List |
| Joshua | Smith | joshua.smith@sierraclub.or g | | 85 Second St FL 2 San Francisco, California 94105 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Ken | Smith | ken.smith@districtenergy.c om | District Energy St. Paul Inc. | 76 W Kellogg Blvd St. Paul, MN 55102 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Beth H. | Soholt | bsoholt@windonthewires.or g | Wind on the Wires | 570 Asbury Street Suite 201 St. Paul, MN 55104 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Byron E. | Starns | byron.starns@stinson.com | STINSON LLP | 50 S 6th St Ste 2600 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Scott | Strand | SStrand@elpc.org | Environmental Law & Policy Center | 60 S 6th Street Suite 2800 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_21-630_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_21-630_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_21-630_Official CC Service List |
| Amelia | Vohs | avohs@mncenter.org | Minnesota Center for Environmental Advocacy | 1919 University Avenue West Suite 515 St. Paul, Minnesota 55104 | Electronic Service | Yes | OFF_SL_21-630_Official CC Service List |

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| Samantha | Williams | swilliams@nrdc.org | Natural Resources Defense Council | 20 N. Wacker Drive Ste 1600 Chicago, IL 60606 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Joseph | Windler | jwindler@winthrop.com | Winthrop & Weinstine | 225 South Sixth Street, Suite 3500 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Kurt | Zimmerman | kwz@ibew160.org | Local Union #160, IBEW | 2909 Anthony Ln St Anthony Village, MN 55418-3238 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |
| Patrick | Zomer | Pat.Zomer@lawmoss.com | Moss & Barnett PA | 150 S 5th St #1200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_21-630_Official CC Service List |

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| Alison C | Archer | aarcher@misoenergy.org | MISO | 2985 Ames Crossing Rd Eagan, MN 55121 | Electronic Service | No | OFF_SL_15-826_Official |
| Mara | Ascheman | mara.k.ascheman@xcelen ergy.com | Xcel Energy | 414 Nicollet Mall FI 5 Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_15-826_Official |
| Gail | Baranko | gail.baranko@xcelenergy.c om | Xcel Energy | 414 Nicollet Mall7th Floor Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_15-826_Official |
| Jessica L | Bayles | Jessica.Bayles@stoel.com | Stoel Rives LLP | 1150 18th St NW Ste 325 Washington, DC 20036 | Electronic Service | No | OFF_SL_15-826_Official |
| James J. | Bertrand | james.bertrand@stinson.co m | STINSON LLP | 50 S 6th St Ste 2600 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |
| Elizabeth | Brama | ebrama@taftlaw.com | Taft Stettinius & Hollister LLP | 2200 IDS Center 80 South 8th Street Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |
| James | Canaday | james.canaday@ag.state. mn.us | Office of the Attorney General-RUD | Suite 1400 445 Minnesota St. St. Paul, MN 55101 | Electronic Service | Yes | OFF_SL_15-826_Official |
| John | Coffman | john@johncoffman.net | AARP | 871 Tuxedo Blvd. St, Louis, MO 63119-2044 | Electronic Service | No | OFF_SL_15-826_Official |
| Generic Notice | Commerce Attorneys | commerce.attorneys@ag.st ate.mn.us | Office of the Attorney General-DOC | 445 Minnesota Street Suite 1400 St. Paul, MN 55101 | Electronic Service | Yes | OFF_SL_15-826_Official |
| Riley | Conlin | riley.conlin@stoel.com | Stoel Rives LLP | 33 S. 6th Street Suite 4200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |

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| James | Denniston | james.r.denniston@xcelen ergy.com | Xcel Energy Services, Inc. | 414 Nicollet Mall, 401-8 Minneapolis, MN 55401 | Electronic Service | Yes | OFF_SL_15-826_Official |
| Rebecca | Eilers | rebecca.d.eilers@xcelener gy.com | Xcel Energy | 414 Nicollet Mall - 401 7th Floor Minneapolis, MN 55401 | Electronic Service | No | OFF_SL_15-826_Official |
| Catherine | Fair | catherine@energycents.org | Energy CENTS Coalition | 823 E 7th St St Paul, MN 55106 | Electronic Service | No | OFF_SL_15-826_Official |
| John | Farrell | jfarrell@ilsr.org | Institute for Local Self-Reliance | 2720 E. 22nd St Institute for Local Self- Reliance Minneapolis, MN 55406 | Electronic Service | No | OFF_SL_15-826_Official |
| 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_15-826_Official |
| Edward | Garvey | garveyed@aol.com | Residence | 32 Lawton St Saint Paul, MN 55102 | Electronic Service | No | OFF_SL_15-826_Official |
| lanet | Gonzalez | Janet.gonzalez@state.mn. us | Public Utilities Commission | Suite 350 121 7th Place East St. Paul, MN 55101 | Electronic Service | Yes | OFF_SL_15-826_Official |
| Adam | Heinen | aheinen@dakotaelectric.co m | Dakota Electric Association | 4300 220th St W Farmington, MN 55024 | Electronic Service | No | OFF_SL_15-826_Official |
| Michael | Норре | lu23@ibew23.org | Local Union 23, I.B.E.W. | 445 Etna Street Ste. 61 St. Paul, MN 55106 | Electronic Service | No | OFF_SL_15-826_Official |

| First Name | Last Name | Email | Company Name | Address | Delivery Method | View Trade Secret | Service List Name |
|------------|------------------|------------------------------------|---|--|--------------------|-------------------|------------------------|
| Alan | Jenkins | aj@jenkinsatlaw.com | Jenkins at Law | 2950 Yellowtail Ave. Marathon, FL 33050 | Electronic Service | No | OFF_SL_15-826_Official |
| Sarah | Johnson Phillips | sarah.phillips@stoel.com | Stoel Rives LLP | 33 South Sixth Street Suite 4200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |
| Carmel | Laney | carmel.laney@stoel.com | Stoel Rives LLP | 33 South Sixth Street Suite 4200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |
| Peder | Larson | plarson@larkinhoffman.co m | Larkin Hoffman Daly & Lindgren, Ltd. | 8300 Norman Center Drive Suite 1000 Bloomington, MN 55437 | Electronic Service | No | OFF_SL_15-826_Official |
| Kavita | Maini | kmaini@wi.rr.com | KM Energy Consulting, LLC | 961 N Lost Woods Rd Oconomowoc, WI 53066 | Paper Service | No | OFF_SL_15-826_Official |
| Mary | Martinka | mary.a.martinka@xcelener gy.com | Xcel Energy Inc | 414 Nicollet Mall 7th Floor Minneapolis, MN 55401 | Electronic Service | Yes | OFF_SL_15-826_Official |
| 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_15-826_Official |
| David | Moeller | dmoeller@allete.com | Minnesota Power | 30 W Superior St Duluth, MN 558022093 | Electronic Service | No | OFF_SL_15-826_Official |
| Andrew | Moratzka | andrew.moratzka@stoel.co m | Stoel Rives LLP | 33 South Sixth St Ste 4200 Minneapolis, MN 55402 | Electronic Service | Yes | OFF_SL_15-826_Official |
| David | Niles | david.niles@avantenergy.c om | Minnesota Municipal Power Agency | 220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402 | Electronic Service | No | OFF_SL_15-826_Official |

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| Carol A. | Overland | overland@legalectric.org | Legalectric - Overland Law Office | 1110 West Avenue Red Wing, MN 55066 | Electronic Service | No | OFF_SL_15-826_Officia |
| Generic Notice | Residential Utilities Division | residential.utilities@ag.stat e.mn.us | Office of the Attorney General-RUD | 1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131 | Electronic Service | Yes | OFF_SL_15-826_Officia |
| 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_15-826_Officia |
| Amanda | Rome | amanda.rome@xcelenergy. | Xcel Energy | 414 Nicollet Mall FL 5 Minneapoli, MN 55401 | Electronic Service | No | OFF_SL_15-826_Official |
| Richard | Savelkoul | rsavelkoul@martinsquires.c om | Martin & Squires, P.A. | 332 Minnesota Street Ste W2750 St. Paul, MN 55101 | Electronic Service | Yes | OFF_SL_15-826_Officia |
| Christine | Schwartz | Regulatory.records@xcele nergy.com | Xcel Energy | 414 Nicollet Mall FL 7 Minneapolis, MN 554011993 | Electronic Service | Yes | OFF_SL_15-826_Officia |
| 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_15-826_Officia |
| Janet | Shaddix Elling | jshaddix@janetshaddix.co m | Shaddix And Associates | 7400 Lyndale Ave S Ste 190 Richfield, MN 55423 | Electronic Service | Yes | OFF_SL_15-826_Officia |
| Ken | Smith | ken.smith@districtenergy.c om | District Energy St. Paul Inc. | 76 W Kellogg Blvd St. Paul, MN 55102 | Electronic Service | No | OFF_SL_15-826_Officia |

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|------------|-----------|----------------------------------|--------------------------------------|---|--------------------|-------------------|------------------------|
| Byron E. | Starns | byron.starns@stinson.com | STINSON LLP | 50 S 6th St Ste 2600 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |
| James M | Strommen | jstrommen@kennedy- graven.com | Kennedy & Graven, Chartered | 150 S 5th St Ste 700 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |
| Eric | Swanson | eswanson@winthrop.com | Winthrop & Weinstine | 225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629 | Electronic Service | No | OFF_SL_15-826_Official |
| Samantha | Williams | swilliams@nrdc.org | Natural Resources Defense Council | 20 N. Wacker Drive Ste 1600 Chicago, IL 60606 | Electronic Service | No | OFF_SL_15-826_Official |
| Joseph | Windler | jwindler@winthrop.com | Winthrop & Weinstine | 225 South Sixth Street, Suite 3500 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |
| Kurt | Zimmerman | kwz@ibew160.org | Local Union #160, IBEW | 2909 Anthony Ln St Anthony Village, MN 55418-3238 | Electronic Service | No | OFF_SL_15-826_Official |
| Patrick | Zomer | Pat.Zomer@lawmoss.com | Moss & Barnett PA | 150 S 5th St #1200 Minneapolis, MN 55402 | Electronic Service | No | OFF_SL_15-826_Official |